

NT01415629999

A spill calculation was not prepared when this spill occurred



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

March 6, 2024

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

Re: Site Assessment, and Closure Report
Thistle 17
API No. 30-025-39893
GPS: Latitude 32.2576494 Longitude -103.5683672
UL -- M, Section 34, T28S, R33E
Lea County, NM
NMOCD Ref. No. NT01415629999

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a gas release that occurred at the Thistle 17 (Thistle). The initial C-141 was submitted on June 6, 2014. This incident was assigned Incident ID NTO1415629999 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Thistle is located approximately twenty-six (26) miles southwest of Eunice, NM. This spill site is in Unit M, Section 34, Township 28S, Range 33E, Latitude 32.2576494 Longitude -103.5683672, 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 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 Berino-Cacique loamy fine sands association according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Thistle (Figure 3).

Based on the well water data from the New Mexico Office of the State Engineer water well (C-02308), the depth to the nearest groundwater in this vicinity measures 20 feet below grade surface (BGS), positioned 1.58 miles away from the Thistle, drilled, June 30, 1920. Conversely, as per the United States Geological Survey well water data (USGS321348103340401), the nearest groundwater depth in this region is recorded at 22 feet BGS, situated approximately 1.58 miles away from the Thistle, with the last gauge conducted in 1994. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps.

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

Thistle 17|Devon Energy

Reference Figure 2 for a Topographic Map.

Release Information

NTO1415629999: On May 20, 2014, construction hit an unmarked gas line that was 18" deep while constructing another pipeline which is a polyline, causing gas to be released. The released gas could not be calculated. The affected area was desert, and the area was sprayed with Microblaze according to state recommendation.

Site Assessment, and Soil Sampling Results

On March 1, 2024, after sending a 48-hour notification, application ID:318347 (Appendix C), Pima mobilized personnel to the site to begin collecting confirmation samples of the pasture area. The results of this sampling event can be found in the following table. Confirmation Sample Map can be found in Figure 5.

3/1/2024 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY Thistle Unit 17H								
Date: 3-1-24		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
CS 1	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
CS 2	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
CSW1	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
CSW2	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
CSW3	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
CSW4	Surface	ND	ND	ND	ND	ND	0	ND
	1'	ND	ND	ND	ND	ND	0	ND
	2'	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 bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NTO1415629999, 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 575-964-7740 or gio@pimaoil.com.

Respectfully,

Gio Gomez

Gio Gomez

Project Manager

Pima Environmental Services, LLC

Thistle 17|Devon Energy

Attachments

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – 48 Hrs Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services



Figures:

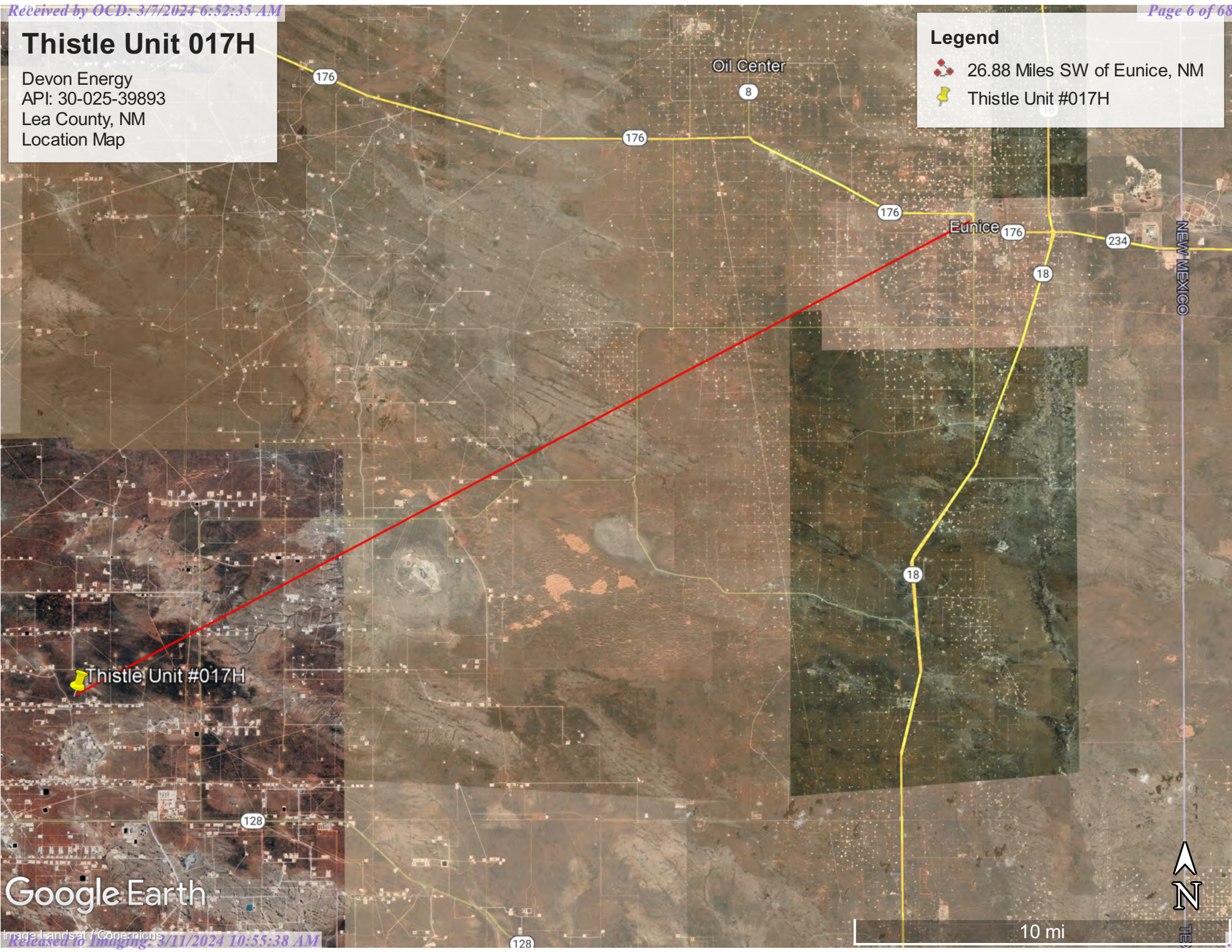
1. Locaton Map
2. Topographic Map
3. Karst Map
4. Confirmation Sample Map

Thistle Unit 017H

Devon Energy
API: 30-025-39893
Lea County, NM
Location Map

Legend

-  26.88 Miles SW of Eunice, NM
-  Thistle Unit #017H



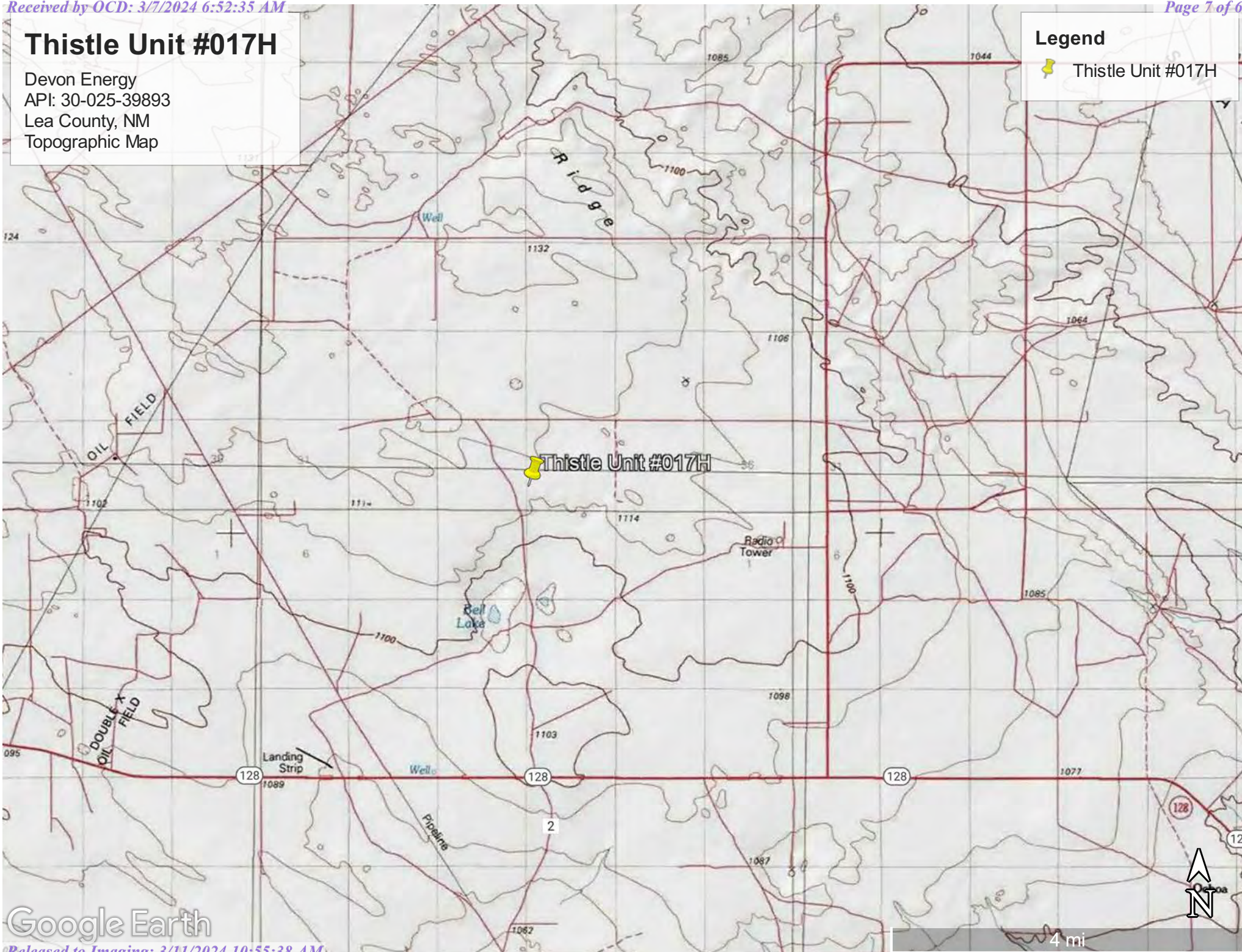
Google Earth

Thistle Unit #017H

Devon Energy
API: 30-025-39893
Lea County, NM
Topographic Map

Legend

 Thistle Unit #017H







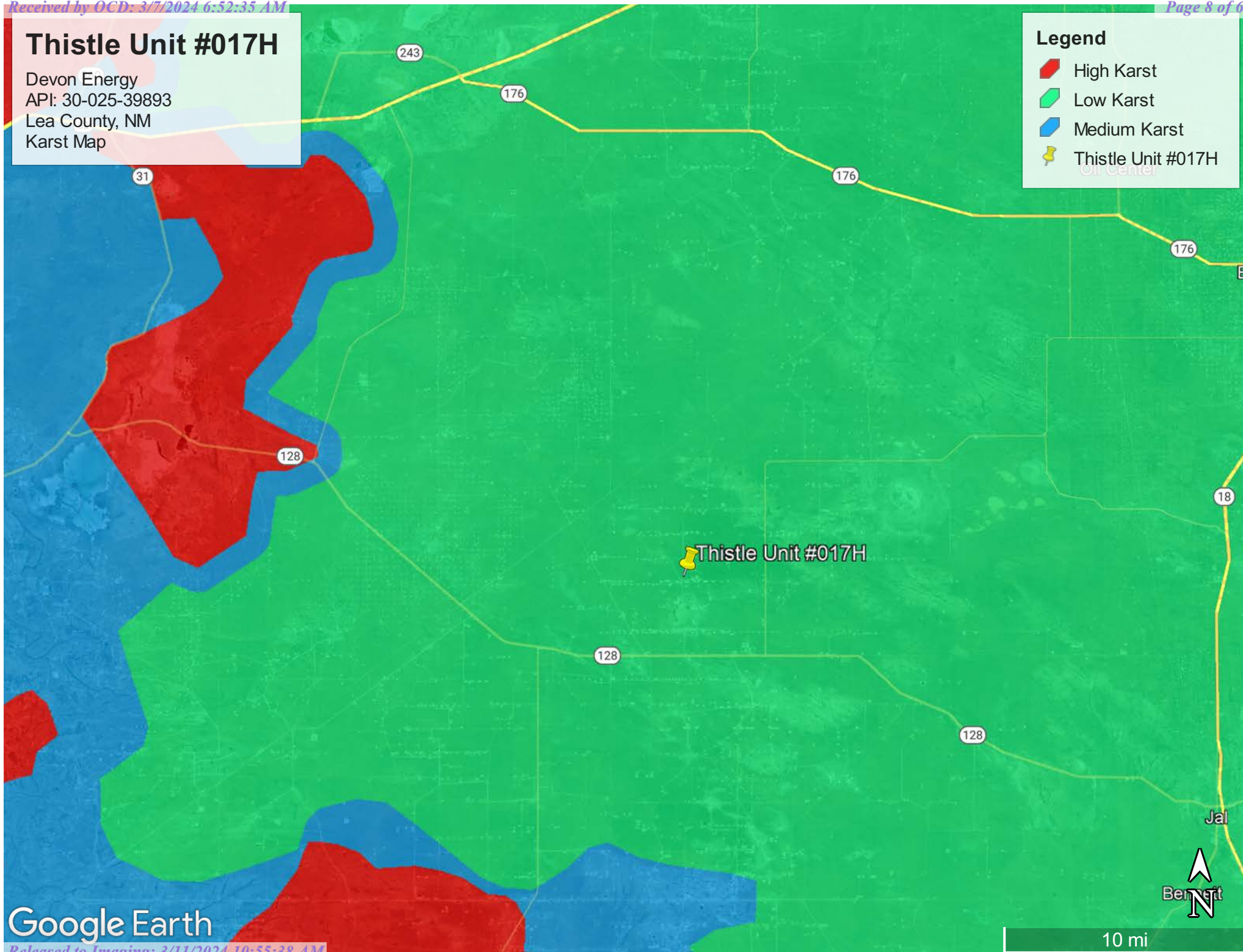
Google Earth

Thistle Unit #017H

Devon Energy
API: 30-025-39893
Lea County, NM
Karst Map

Legend



-  High Karst
-  Low Karst
-  Medium Karst
-  Thistle Unit #017H



Thistle Unit #017H

Devon Energy
API:30-025-39893
Lea County, NM
Confirmation Sample Map

Legend

-  Confirmation Samples
-  Thistle Unit 17H

CSW1
CS1
CSW4
CSW2
CS2
CSW3
Thistle Unit 17H

Google Earth



100 ft



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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	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04595 POD1		CUB	LE	4	3	3	34	23S	33E		635150	3569564	829	55		
C 02308		CUB	LE	1	3	1	10	24S	33E		634953	3567364*	1423	40	20	20
C 04707 POD1		CUB	LE	4	3	3	33	23S	33E		633413	3569469	1607			
C 04741 POD1		CUB	LE	1	2	4	10	24S	33E		636076	3567039	2123	55		
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E		632731	3568518	2152			
C 04753 POD1		CUB	LE	4	4	3	35	23S	33E		637075	3569526	2328	55		
C 02281		CUB	LE	3	4	4	28	23S	33E		634495	3571183*	2426	545	400	145
C 02279		CUB	LE	3	4	3	28	23S	33E		633691	3571173*	2662	650	400	250
C 02280		CUB	LE	3	2	4	28	23S	33E		634489	3571586*	2826	650	400	250
C 03565 POD3		CUB	LE		3	4	08	24S	33E		632763	3566546	3071			1533
C 02278		CUB	LE	3	4	2	28	23S	33E		634484	3571989*	3227	650	400	250
C 02284		CUB	LE	4	2	4	26	23S	33E		637907	3571626*	4160	325	225	100
C 04551 POD1		CUB	LE	4	4	3	31	23S	33E		630671	3569556	4266			
C 02430		CUB	LE	3	3	3	16	24S	33E		633377	3564732*	4318	643	415	228
C 02431		CUB	LE	4	4	4	17	24S	33E		633175	3564728*	4395	525	415	110
C 02432		CUB	LE	4	4	4	17	24S	33E		633175	3564728*	4395	640	415	225
C 04014 POD5		CUB	LE	1	4	2	01	24S	33E		639284	3569086	4426	95	85	10
C 04014 POD4		CUB	LE	3	4	2	01	24S	33E		639295	3568859	4428	96	86	10
C 04014 POD3		CUB	LE	2	4	2	01	24S	33E		639497	3569007	4635	95	87	8
C 02277		CUB	LE	2	3	4	20	23S	33E		632663	3572970*	4730	550	400	150
C 02283		CUB	LE	4	2	2	26	23S	33E		637896	3572431*	4739	325	225	100
C 04014 POD2		CUB	LE	4	4	2	01	24S	33E		639656	3568917	4789	95	81	14
C 02282		CUB	LE	3	1	1	25	23S	33E		638098	3572436*	4875	325	225	100
C 04014 POD1		CUB	LE	1	1	3	06	24S	34E		639811	3568638	4945	91	81	10

Average Depth to Water: **327 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1533 feet**

Record Count: 24

UTM NAD83 Radius Search (in meters):

Easting (X): 634867.6

Northing (Y): 3568784.87

Radius: 5000

*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.

Thistle Unit 017H

Devon Energy
API: 30-025-39893
Lea County, NM
C-02308 Map

Legend

- 1.58 Miles
- C-02308
- Thistle Unit #017H

Thistle Unit #017H

C-02308

Google Earth


1 mi





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)						
		(quarters are smallest to largest)												
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y					
	C 02308	1	3	1	10	24S	33E	634953	3567364* 					
x														
Driller License:					Driller Company:									
Driller Name: UNKNOWN														
Drill Start Date: 01/01/1920		Drill Finish Date: 06/30/1920		Plug Date:										
Log File Date:		PCW Rcv Date:		Source:										
Pump Type:		Pipe Discharge Size:		Estimated Yield: 15 GPM										
Casing Size: 6.63		Depth Well: 40 feet		Depth Water: 20 feet										
x														

*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.

3/4/24 8:33 AM

POINT OF DIVERSION SUMMARY



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater


Geographic Area:

United States

GO

Click to hideNews Bulletins

① How are we doing? We want to hear from you. Take our quick [survey](#) to tell us what you think.

- 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

① Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321348103340401

Minimum number of levels = 1

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

USGS 321348103340401 24S.33E.10.13123

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°14'04.9", Longitude 103°34'02.4" NAD83

Land-surface elevation 3,592 feet above NAVD88

The depth of the well is 36 feet below land surface.

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

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

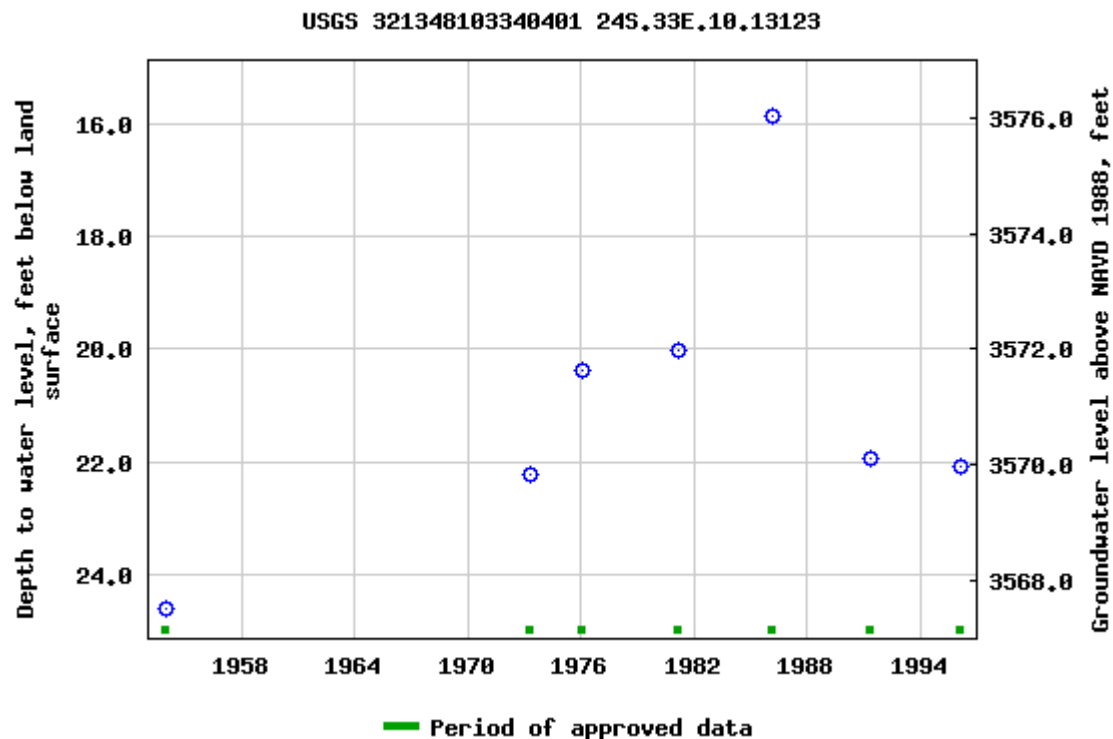
Output formats

[Table of data](#)

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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-09-06 11:05:52 EDT

0.59 0.53 nadww01

Thistle Unit 017H

Devon Energy
API: 30-025-39893
Lea County, NM
USGS 321348103340401

Legend

- 1.58 Miles
- Thistle Unit #017H
- USGS 321348103340401

Thistle Unit #017H

USGS 321348103340401

Google Earth



1 mi



Thistle Unit #017H

Devon Energy
API: 30-025-39893
Lea County, NM
Surface Water Map

Legend

-  9.67 Miles
-  Thistle Unit #017H



Google Earth



7 mi



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 13 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 6 inches: loamy fine sand

Btk - 6 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 loamy fine sands association---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

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 12 inches: loamy fine sand

Bt - 12 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 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Maljamar**

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Map Unit Description: Berino-Cacique loamy fine sands association---Lea County, New Mexico

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

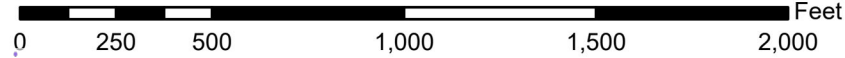
Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°34'25"W 32°15'43"N



1:6,000

103°33'47"W 32°15'12"N

Basemap Imagery Source: USGS National Map 2023

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
		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
		Area of Minimal Flood Hazard Zone X
OTHER AREAS		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 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile 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 3/6/2024 at 1:03 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 unmannerized areas cannot be used for regulatory purposes.

Released to Imaging: 3/11/2024 10:55:38 AM

Received by OCD: 3/8/2024 6:52:35 AM



Wetlands Map



September 6, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Pima Environmental Services

Appendix C
48-Hour Notification



Gio PimaOil <gio@pimaoil.com>

Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318347

1 message

Woodall, Dale <Dale.Woodall@dvn.com>

Tue, Feb 27, 2024 at 4:27 PM

To: Gio PimaOil <gio@pimaoil.com>, Lynsey Pima Oil <lynsey@pimaoil.com>

Dale Woodall
Environmental Professional
Hobbs, NM 88240
Office: 575-748-1838
Mobile: 405-318-4697

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>**Sent:** Tuesday, February 27, 2024 4:26:17 PM**To:** Woodall, Dale <Dale.Woodall@dvn.com>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 318347

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1415629999.

The sampling event is expected to take place:

When: 03/01/2024 @ 08:00**Where:** O-33-23S-33E 150 FSL 1470 FEL (32.2543602,-103.5734558)**Additional Information:** Andrew Franco -806-200-0054

Additional Instructions: From the intersection of XL Rd and Brinistool Rd, travel south on Brinistool Rd for 1.02 miles, turn East on lease Rd for 0.13 of a mile, turn North on lease rd for 0.17 of a mile, arriving at POR.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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Pima Environmental Services

Appendix D

Photographic Documentation



SITE PHOTOGRAPHS

DEVON ENERGY

Thistle Unit #017H

Assessment





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 17 H

Work Order: E403004

Job Number: 01058-0007

Received: 3/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/5/24

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.

Date Reported: 3/5/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 17 H
Workorder: E403004
Date Received: 3/4/2024 8:45:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/4/2024 8:45:00AM, under the Project Name: Thistle Unit 17 H.

The analytical test results summarized in this report with the Project Name: Thistle Unit 17 H 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,

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 03/05/24 14:38
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1-Surface	E403004-01A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS1-1'	E403004-02A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS1-2'	E403004-03A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS2-Surface	E403004-04A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS2-1'	E403004-05A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS2-2'	E403004-06A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW1-Surface	E403004-07A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW1-1'	E403004-08A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW1-2'	E403004-09A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW2-Surface	E403004-10A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW2-1'	E403004-11A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW2-2'	E403004-12A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW3-Surface	E403004-13A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW3-1'	E403004-14A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW3-2'	E403004-15A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW4-Surface	E403004-16A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CS4-1'	E403004-17A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.
CSW4-2'	E403004-18A	Soil	03/01/24	03/04/24	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS1-Surface

E403004-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.5 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	99.3 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	101 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS1-1'
E403004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	91.1 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.7 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	95.2 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS1-2'
E403004-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

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

Project Name: Thistle Unit 17 H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/5/2024 2:38:51PM

CS2-Surface

E403004-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.9 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.9 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS2-1'
E403004-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.7 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	101 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

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

Project Name: Thistle Unit 17 H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/5/2024 2:38:51PM

CS2-2'

E403004-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1-Surface
E403004-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.5 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	103 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1-1'

E403004-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.5 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.7 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	103 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW1-2'

E403004-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	98.0 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	104 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2-Surface
E403004-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	97.9 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2-1'

E403004-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	96.0 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.8 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	102 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW2-2'

E403004-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	104 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW3-Surface
E403004-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	96.7 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	89.8 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW3-1'

E403004-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	98.0 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	89.0 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Thistle Unit 17 H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/5/2024 2:38:51PM
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CSW3-2'

E403004-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	88.8 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW4-Surface
E403004-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.5 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	92.1 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CS4-1'
E403004-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	90.3 %	50-200		03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported: 3/5/2024 2:38:51PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

CSW4-2'

E403004-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Benzene	ND	0.0250	1	03/04/24	03/04/24	
Ethylbenzene	ND	0.0250	1	03/04/24	03/04/24	
Toluene	ND	0.0250	1	03/04/24	03/04/24	
o-Xylene	ND	0.0250	1	03/04/24	03/04/24	
p,m-Xylene	ND	0.0500	1	03/04/24	03/04/24	
Total Xylenes	ND	0.0250	1	03/04/24	03/04/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %		70-130	03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG		Batch: 2410004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/04/24	03/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %		70-130	03/04/24	03/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2410001	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/04/24	03/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/04/24	03/04/24	
Surrogate: n-Nonane	106 %		50-200	03/04/24	03/04/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2410009	
Chloride	ND	20.0	1	03/04/24	03/04/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/5/2024 2:38:51PM

Volatile Organics by EPA 8021B

Analyst: EG

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 (2410004-BLK1) Prepared: 03/04/24 Analyzed: 03/04/24

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: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

LCS (2410004-BS1) Prepared: 03/04/24 Analyzed: 03/04/24

Benzene	6.30	0.0250	5.00		126	70-130			
Ethylbenzene	6.28	0.0250	5.00		126	70-130			
Toluene	6.27	0.0250	5.00		125	70-130			
o-Xylene	6.19	0.0250	5.00		124	70-130			
p,m-Xylene	12.6	0.0500	10.0		126	70-130			
Total Xylenes	18.8	0.0250	15.0		126	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130			

Matrix Spike (2410004-MS1) Source: E403004-01 Prepared: 03/04/24 Analyzed: 03/04/24

Benzene	4.98	0.0250	5.00	ND	99.7	54-133			
Ethylbenzene	4.95	0.0250	5.00	ND	99.0	61-133			
Toluene	4.95	0.0250	5.00	ND	99.0	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
p,m-Xylene	9.98	0.0500	10.0	ND	99.8	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2410004-MSD1) Source: E403004-01 Prepared: 03/04/24 Analyzed: 03/04/24

Benzene	5.28	0.0250	5.00	ND	106	54-133	5.87	20	
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133	5.88	20	
Toluene	5.25	0.0250	5.00	ND	105	61-130	5.82	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	5.44	20	
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131	5.62	20	
Total Xylenes	15.7	0.0250	15.0	ND	105	63-131	5.56	20	
Surrogate: 4-Bromochlorobenzene-PID	7.40		8.00		92.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/5/2024 2:38:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

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 (2410004-BLK1) Prepared: 03/04/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.82		8.00		97.8	70-130			

LCS (2410004-BS2) Prepared: 03/04/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	62.0	20.0	50.0		124	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.8	70-130			

Matrix Spike (2410004-MS2) Source: E403004-01 Prepared: 03/04/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	57.5	20.0	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			

Matrix Spike Dup (2410004-MSD2) Source: E403004-01 Prepared: 03/04/24 Analyzed: 03/04/24

Gasoline Range Organics (C6-C10)	59.2	20.0	50.0	ND	118	70-130	2.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/5/2024 2:38:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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 (2410001-BLK1)					Prepared: 03/04/24 Analyzed: 03/04/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.9		50.0		106	50-200			

LCS (2410001-BS1)					Prepared: 03/04/24 Analyzed: 03/04/24				
Diesel Range Organics (C10-C28)	284	25.0	250		113	38-132			
Surrogate: n-Nonane	59.3		50.0		119	50-200			

Matrix Spike (2410001-MS1)					Source: E403004-04		Prepared: 03/04/24 Analyzed: 03/04/24		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2410001-MSD1)					Source: E403004-04		Prepared: 03/04/24 Analyzed: 03/04/24		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	2.35	20	
Surrogate: n-Nonane	53.4		50.0		107	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 17 H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/5/2024 2:38:51PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2410009-BLK1)					Prepared: 03/04/24 Analyzed: 03/04/24				
Chloride	ND	20.0							
LCS (2410009-BS1)					Prepared: 03/04/24 Analyzed: 03/04/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2410009-MS1)					Source: E403004-03		Prepared: 03/04/24 Analyzed: 03/04/24		
Chloride	250	20.0	250	ND	100	80-120			
Matrix Spike Dup (2410009-MSD1)					Source: E403004-03		Prepared: 03/04/24 Analyzed: 03/04/24		
Chloride	254	20.0	250	ND	101	80-120	1.39	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:	Thistle Unit 17 H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	03/05/24 14:38

- ND Analyte NOT DETECTED at or above the reporting limit
 - NR Not Reported
 - RPD Relative Percent Difference
 - DNI Did Not Ignite
 - DNR Did not react with the addition of acid or base.
- 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 2

Client: <u>Pima Environmental Services</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Thistle Unit 17 H</u>		Attention: <u>Devon</u>		Lab WO# <u>E403004</u>		Job Number <u>61058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Glo Gomez</u>		Address:		Analysis and Method				RCRA					
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip						State					
City, State, Zip <u>Hobbs, NM. 88240</u>		Phone:						NM CO UT AZ TX					
Phone: <u>806-782-1151</u>		Email:						X					
Email: <u>glo@pimaoil.com</u>		Pima Project # <u>357</u>						Remarks					
Report due by:													

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	BDOC NM	BDOC TX	Remarks
8:17	3/1	S	1	CS1-Surface	1							X		
8:26				CS1-1'	2									
8:33				CS1-2'	3									
8:49				CS2-Surface	4									
8:56				CS2-1'	5									
9:11				CS2-2'	6									
9:21				CSW1-Surface	7									
9:38				CSW1-1'	8									
9:46				CSW1-2'	9									
9:52				CSW2-Surface	10									

Additional Instructions:

Billing # EE-123375

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.

Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Karime Adame</u>	<u>3/1/24</u>	<u>3:07</u>	<u>Michelle Gay</u>	<u>3-1-24</u>	<u>1807</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Michelle Gay</u>	<u>3-1-24</u>	<u>1723</u>	<u>John Nasso</u>	<u>3-1-24</u>	<u>1745</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>John Nasso</u>	<u>3-1-24</u>	<u>2300</u>	<u>Michelle Gay</u>	<u>3-4-24</u>	<u>8:45</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.

Lab Use Only		
Received on ice: <u>Y/N</u>		
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.



Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services Project: Thistle Unit 17 H Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 357					Lab Use Only Lab WO# E403004 Job Number 010580007 Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					TAT 1D 2D 3D Standard X				EPA Program 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																								
10:07	3/1	S	1	CSW2 - 1'	11							X																										
10:19				CSW2 - 2'	12																																	
10:25				CSW3 - Surface	13																																	
10:39				CSW3 - 1'	14																																	
10:46				CSW3 - 2'	15																																	
10:55				CSW4 - Surface	16																																	
11:16				CSW4 - 1'	17																																	
11:30				CSW4 - 2'	18																																	
Additional Instructions: Billing # EE-123375 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. Sampled by: <table border="1"> <tr> <td>Relinquished by: (Signature)</td> <td>Date</td> <td>Time</td> <td>Received by: (Signature)</td> <td>Date</td> <td>Time</td> </tr> <tr> <td>Karine Adame</td> <td>3/1/24</td> <td>3:07</td> <td>Michelle Engh</td> <td>3-1-24</td> <td>1507</td> </tr> <tr> <td>Michelle Engh</td> <td>3-1-24</td> <td>1723</td> <td>Andrew Messo</td> <td>3-1-24</td> <td>1745</td> </tr> <tr> <td>Andrew Messo</td> <td>3-1-24</td> <td>2300</td> <td>Andrew Messo</td> <td>3-4-24</td> <td>8:45</td> </tr> </table>															Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Karine Adame	3/1/24	3:07	Michelle Engh	3-1-24	1507	Michelle Engh	3-1-24	1723	Andrew Messo	3-1-24	1745	Andrew Messo	3-1-24	2300	Andrew Messo	3-4-24	8:45
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Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 T2 T3 AVG Temp °C 4 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																																						
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: 3/4/2024 11:52:02AM

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:	03/04/24 08:45	Work Order ID:	E403004
Phone:	(575) 631-6977	Date Logged In:	03/01/24 17:20	Logged In By:	Jessica Liesse
Email:	gio@pimaoil.com	Due Date:	03/04/24 17:00 (0 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: CourierComments/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? 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.

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

QUESTIONS

Action 321019

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 321019
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1415629999
Incident Name	NT01415629999 THISTLE UNIT 17 @ 30-025-39893
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-39893] THISTLE UNIT #017H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Thistle Unit 17
Date Release Discovered	05/20/2014
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Natural Gas Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other Flow Line - Production [OBSOLETE] Natural Gas (Methane) Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	321019
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 03/07/2024
--	--

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QUESTIONS, Page 3

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 321019
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	03/01/2024
On what date will (or did) the final sampling or liner inspection occur	03/01/2024
On what date will (or was) the remediation complete(d)	03/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	321019
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	lab results yielded data below state action levels. no remediation other than the initial application of microblaze when the release occurred

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/07/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 321019
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	321019
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	318347
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/01/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	see report

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 03/07/2024
--	--

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

QUESTIONS, Page 7

Action 321019

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	321019
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District I
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Santa Fe, NM 87505

CONDITIONS

Action 321019

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 321019
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Closure Approved	3/11/2024