State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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?	245 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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: 3/8/2023

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 03/08/2023

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] 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: 3/8/2023

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 03/08/2023

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

Closure Approved by: Brittany Hall Date: 3/20/2023

Printed Name: Brittany Hall Title: Environmental Specialist

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

February 23rd, 2023

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

Re: Site Assessment, Remediation, and Closure Report
Mad Dog 15 Federal Com #001
API No. 30-025-36778
GPS: Latitude 32.299202 Longitude -103.451499
UL -- P, Sec. 15, T23S, R34E
Lea County, NM
NMOCD Ref. No. NGRL1031435971

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 produced water release that occurred at the Mad Dog 15 Federal Com #001 (Mad Dog). The initial C-141 was submitted on June 4th, 2010 (Appendix C). This incident was assigned Incident ID NGRL1031435971 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Mad Dog is located approximately twenty-one (21) miles southwest of Eunice, NM. This spill site is in Unit P, Section 15, Township 23S, Range 34E, Latitude 32.299202 Longitude -103.451499, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Piedmont alluvial deposits (Holocene to lower Pleistocene). The soil in this area is made up of Simona fine sandy loam, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Mad Dog (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 245 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 282 feet BGS. The closest waterway is an unnamed salt playa, located approximately 2.36 miles to the east of this location. See Appendix A for referenced water surveys.

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

Reference Figure 2 for a Topographic Map.

Release Information

NGRL1031435971: On June 1st, 2010, a hairline fracture developed in a transfer line releasing 15 bbls of produced water. The area impacted was 40 feet in diameter with some overspray.

Remediation Activities, Site Assessment, and Soil Sampling Results

On February 14th, 2023, Pima Environmental mobilized personnel to the now reclaimed site to assess the impacted area. Pima sampled the areas surrounding the flowline release and collected a total of fourteen soil samples for laboratory analysis. Five bottom samples (S1-S5) were collected at depths of 1 and 3 feet to determine vertical delineation. Additionally, side wall samples (SW1-SW4) were collected at a depth of 6 inches to determine horizontal delineation. An initial site map can be found in Figure 4.

2-14-23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY - MAD DOG 15 FED 1								
Date 2/14/23		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
S-1	1'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-2	1'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-3	1'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-4	1'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
S-5	1'	ND	ND	ND	ND	ND	ND	ND
	3'	ND	ND	ND	ND	ND	ND	ND
SW 1	6"	ND	ND	ND	ND	ND	ND	ND
SW 2	6"	ND	ND	ND	ND	ND	ND	ND
SW 3	6"	ND	ND	ND	ND	ND	ND	ND
SW 4	6"	ND	ND	ND	ND	ND	ND	ND

ND: Analyte Non-Detect

Based on the sample results, the bottoms and sidewalls are below NMOCD Closure Criteria 19.15.29 NMAC. We believe the impacted area has been adequately remediated during the reclamation event. See Appendix D for Photographic Documentation.

Closure Request

Due to analytical levels falling below NMOCD closure criteria, no further action is required.

After careful review, Pima requests that this incident, NGRL1031435971 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 Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully,

Sebastian Orozco

Sebastian Orozco
Environmental Professional
Pima Environment Services, LLC

Attachments

Figures:
1- Location Map
2- Topographic Map
3- Karst Map
4- Initial 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

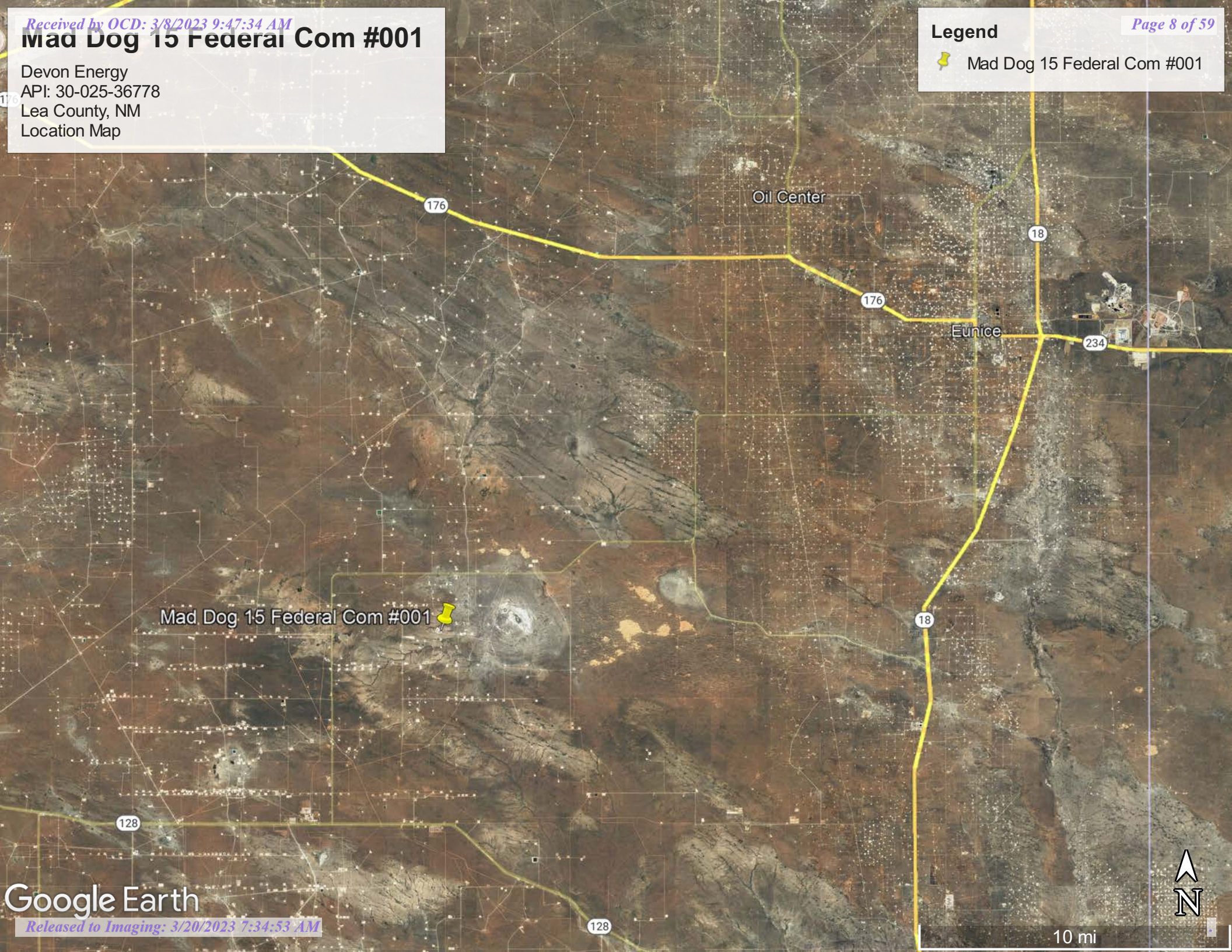
2-Topographic Map

3-Karst Map

4-Site Map

Mad Dog 15 Federal Com #001

Devon Energy
API: 30-025-36778
Lea County, NM
Location Map

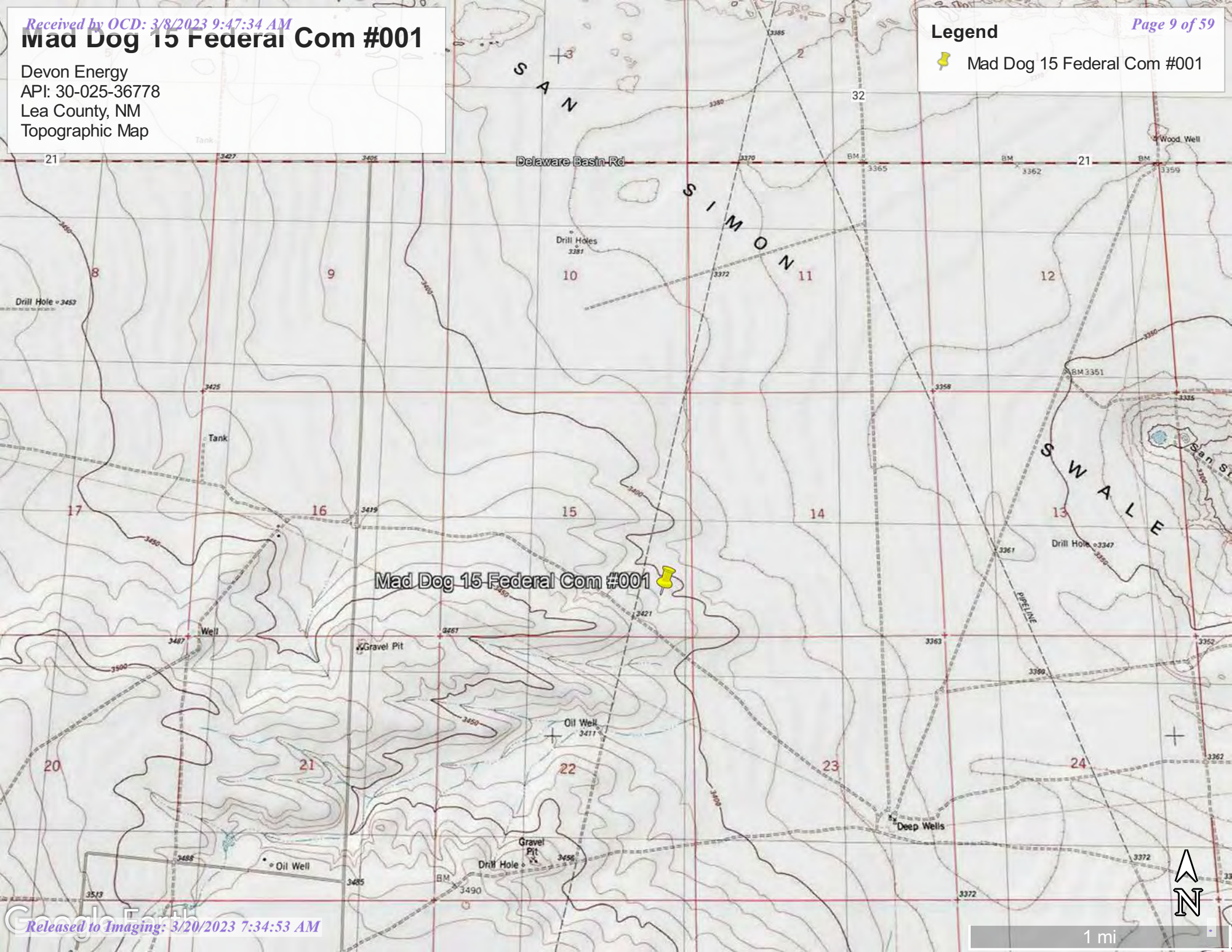


Mad Dog 15 Federal Com #001

Devon Energy
API: 30-025-36778
Lea County, NM
Topographic Map

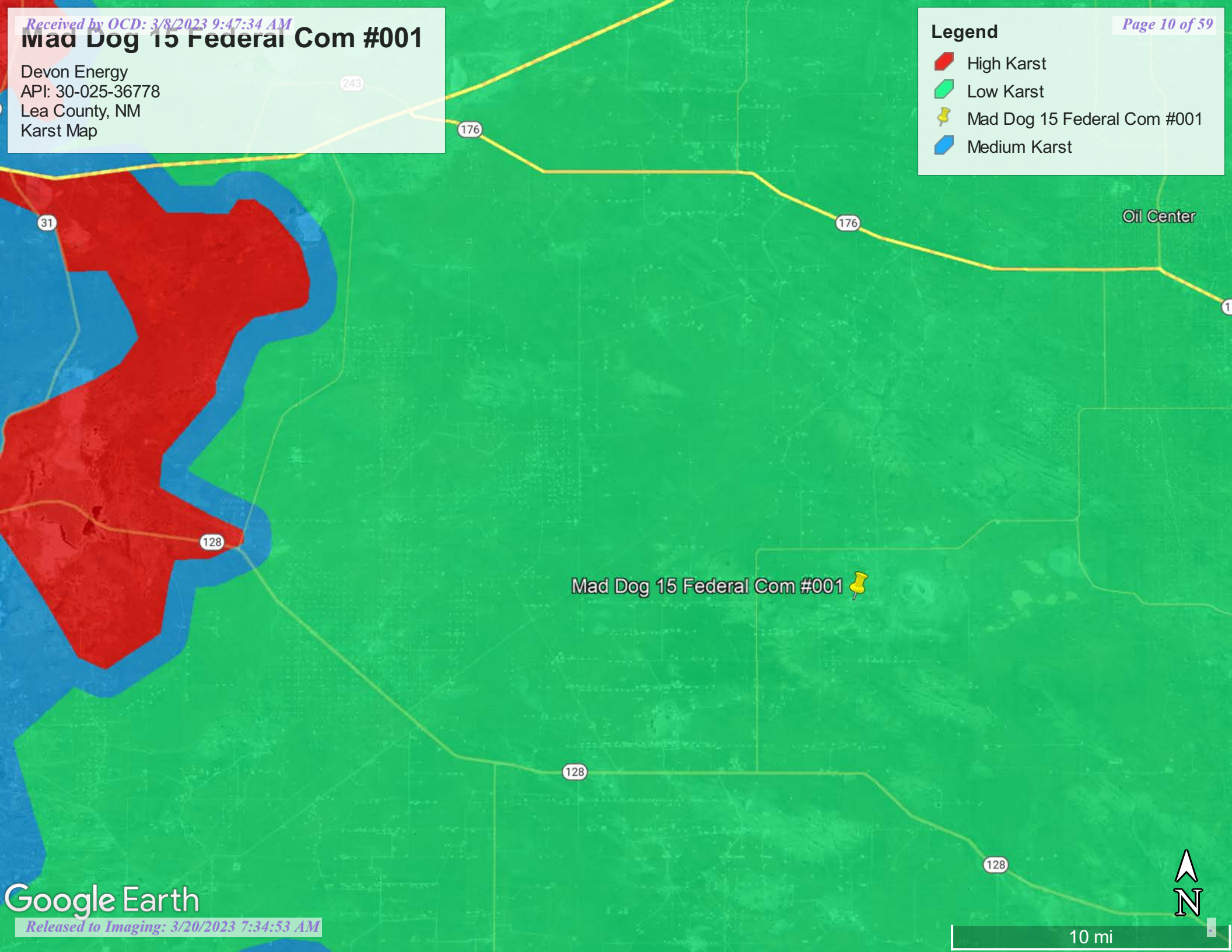
Legend

Mad Dog 15 Federal Com #001



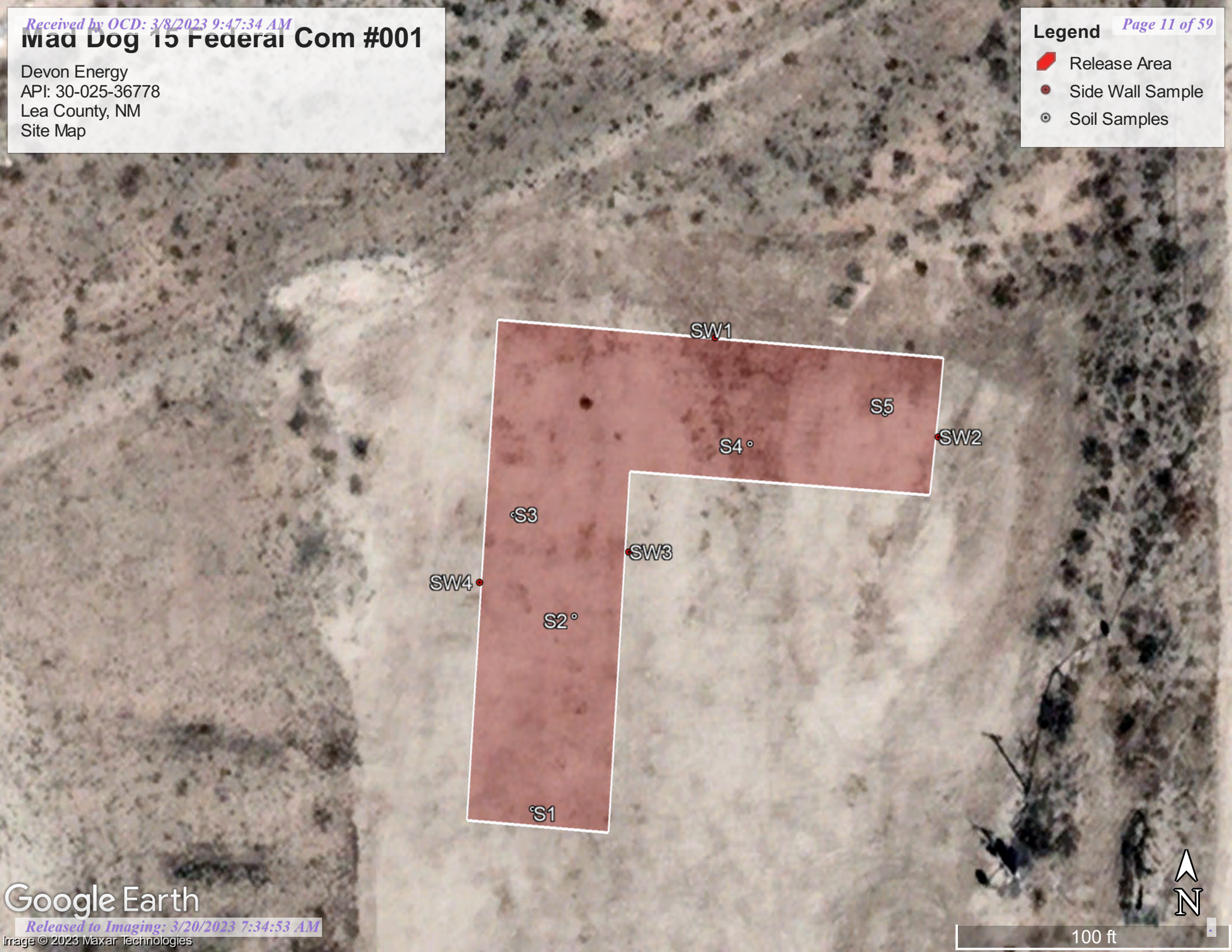
Mad Dog 15 Federal Com #001

Devon Energy
API: 30-025-36778
Lea County, NM
Karst Map



Mad Dog 15 Federal Com #001

Devon Energy
API: 30-025-36778
Lea County, NM
Site Map



Pima Environmental Services

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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00637		CP	LE	3	3	4	15	23S	34E	645293	3574541*	515	430	430	0
CP 01785 POD1		CP	LE	4	1	3	14	23S	34E	646203	3575003	537	488	245	243
CP 01120 POD1		CP	LE	2	3	3	14	23S	34E	646366	3574753	579	397	318	79
CP 00618		CP	LE	1	2	4	22	23S	34E	645713	3573539*	1117	428	295	133
CP 00606		CP	LE		4	1	23	23S	34E	646613	3573854*	1143	650	265	385
CP 01258 POD1		CP	LE	1	4	3	22	23S	34E	645015	3573221	1630	25		
CP 01258 POD3		CP	LE	1	4	3	22	23S	34E	644938	3573097	1776	25		
CP 00580		CP	LE	3	4	3	23	23S	34E	646524	3572948*	1854	220		
CP 01258 POD2		CP	LE	1	4	3	22	23S	34E	644941	3572883	1964	65		
E 07616 POD1		E	TO							646466	3576970	2412	500	300	200
CP 01760 POD1		CP	LE	3	1	2	16	23S	34E	643627	3575897	2500	767	290	477
CP 01730 POD1		CP	LE	2	2	1	16	23S	34E	643549	3575824	2533	594	200	394
CP 01830 POD1		CP	LE	3	3	3	18	23S	35E	649289	3574568	3494	460	270	190
CP 00556 POD1		CP	LE	4	4	3	08	23S	34E	641762	3576206	4321	497	255	242
CP 01622 POD1		CP	LE	1	3	3	04	23S	34E	642830	3577872	4377	575	285	290
C 04667 POD1		CUB	LE	3	4	3	20	23S	34E	641770	3572915	4384			
CP 01502 POD2		CP	LE	4	3	3	05	23S	34E	642074	3577676	4795	680	300	380

Average Depth to Water: **287 feet**
Minimum Depth: **200 feet**
Maximum Depth: **430 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 645795.68 **Northing (Y):** 3574653 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20F8C	CP 01785 POD1	4	1	3	14	23S	34E	646203	3575003

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

Driller Name: WALLACE, BRYCE J.LEE.NER

Drill Start Date:	04/21/2019	**Drill Finish Date:**	04/23/2019	**Plug Date:**	
Log File Date:	06/03/2019	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	225 GPM
Casing Size:	7.50	**Depth Well:**	488 feet	**Depth Water:**	245 feet

Water Bearing Stratifications:	Top	Bottom	Description
	200	280	Sandstone/Gravel/Conglomerate
	280	370	Sandstone/Gravel/Conglomerate
	370	390	Sandstone/Gravel/Conglomerate
	390	480	Sandstone/Gravel/Conglomerate
	480	488	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	250	488

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews 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 =

- 321714103270301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321714103270301 23S.34E.22.421434

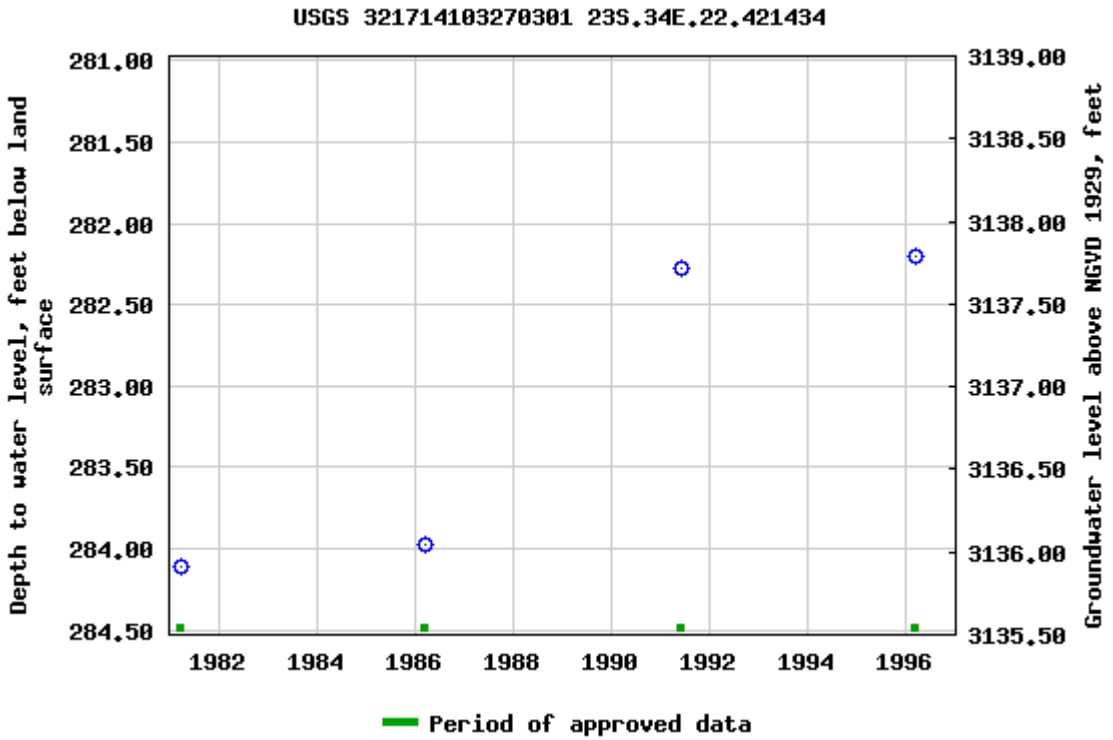
Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°17'18", Longitude 103°27'08" NAD27
Land-surface elevation 3,420.00 feet above NGVD29
The depth of the well is 428 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

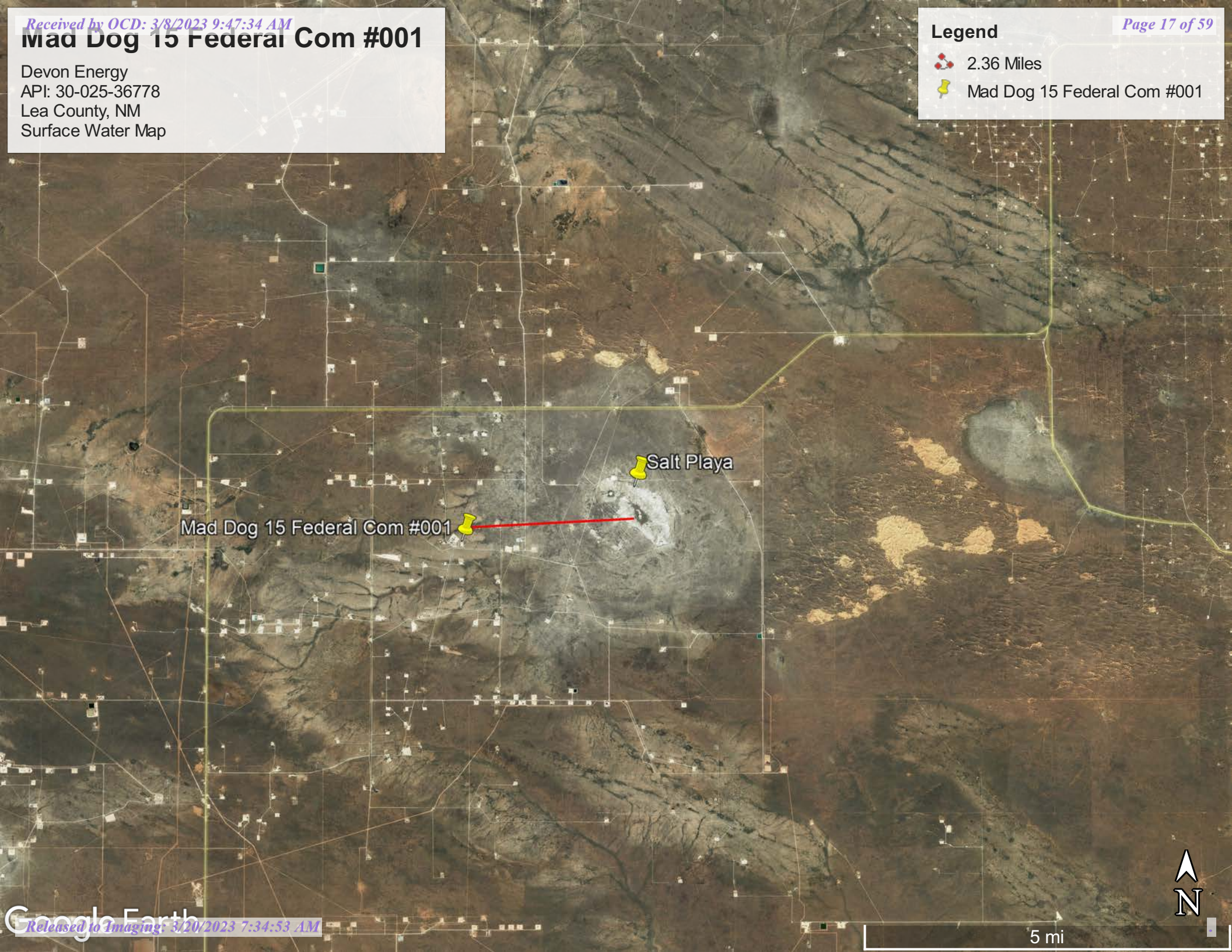


Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

Mad Dog 15 Federal Com #001

Devon Energy
API: 30-025-36778
Lea County, NM
Surface Water Map



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Lea County, New Mexico

SE—Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

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
Bk - 8 to 16 inches: gravelly fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very 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: 35 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: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Kimbrough
Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea
Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

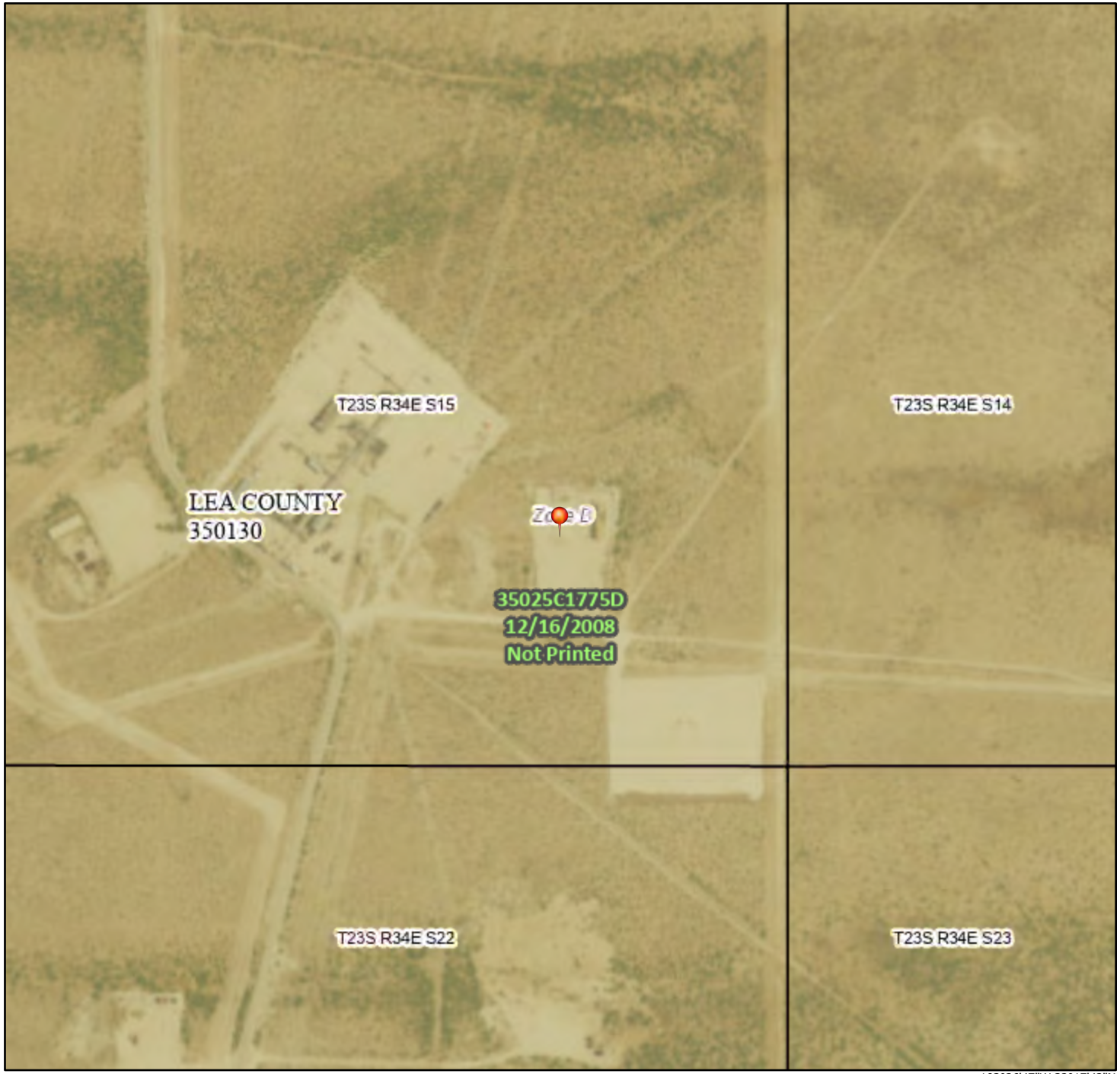
Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette

FEMA

103°27'24"W 32°18'12"N



103°26'47"W 32°17'42"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 2/16/2023 at 11:14 AM 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map

February 22, 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
JUL 08 2010
HOBBSOCD

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy	Contact Roger Hernandez
Address P. O. Box 250 Artesia, NM 88211	Telephone No. 575-748-5238
Facility Name Mad Dog 15 Federal #1	Facility Type Gas Well

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

API # 30-025-36778-00-00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	15	23S	34E	660	South	660	East	Lea County, NM

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 15 BPW	Volume Recovered 0 BPW
Source of Release Hairline split in water transfer line	Date and Hour of Occurrence 6-1-2010 7:00 AM	Date and Hour of Discovery 6-1-2010 7:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Trishia BadBear (BLM-Hobbs)	
By Whom? Roger Hernandez	Date and Hour 6-1-2010 9:30 AM	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

WATER @ 280'

Describe Cause of Problem and Remedial Action Taken.*
15 bbls of Produced water was released due to a hairline fracture in a transfer line.

Describe Area Affected and Cleanup Action Taken.*
Area impacted was 40' in diameter with some overspray; soil samples of affected area, horizontally and vertically, will be taken for analysis. The remediation will be based off of lab results. The transfer line was scheduled for replacement June 2, 2010; it has been replaced at this time.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Don Mayberry	OIL CONSERVATION DIVISION
Printed Name: Don Mayberry	Approved by ENV ENGINEER / ~~District Supervisor~~: Geoffrey Leking
Title: Superintendent	Approval Date: 07/08/10 Expiration Date: 09/08/10
Date: June 4, 2010 Phone: 575-748-5235	Conditions of Approval: SUBMIT FINAL C-141 BY 09/08/10. Attached ☐

IRP-11-10-2644

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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?	245 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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: 3/8/2023

email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NGRL1031435971
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] 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: 3/8/2023

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: _____ Date: _____

Printed Name: _____ Title: _____

Pima Environmental Services

Appendix D

Photographic Documentation

SITE PHOTOGRAPHS
PIMA ENVIORNMENTAL

Mad Dog 15 Fed #001


32.29901838N 103.45177632W
Mad dog 15 Fed Com 1
Assessment
Devon


32.29886489N 103.45164398W
Mad dog 15 Fed Com 1
Assessment
Devon

Pima Environmental Services

Appendix E

Laboratory Reports

Report to:

Tom Bynum

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name:	Mad dog 15 Fed 1
Work Order:	E302079
Job Number:	01058-0007
Received:	2/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/21/23

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: 2/21/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Mad dog 15 Fed 1
Workorder: E302079
Date Received: 2/17/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2023 8:15:00AM, under the Project Name: Mad dog 15 Fed 1.

The analytical test results summarized in this report with the Project Name: Mad dog 15 Fed 1 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 reguarding 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/21/23 12:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E302079-01A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S1-3'	E302079-02A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S2-1'	E302079-03A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S2-3'	E302079-04A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S3-1'	E302079-05A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S3-3'	E302079-06A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S4-1'	E302079-07A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S4-3'	E302079-08A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S5-1'	E302079-09A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
S5-3'	E302079-10A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
SW1	E302079-11A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
SW2	E302079-12A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
SW3	E302079-13A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.
SW4	E302079-14A	Soil	02/14/23	02/17/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S1-1'

E302079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	40.0	2	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S1-3'

E302079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.3 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S2-1'

E302079-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*110 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S2-3'

E302079-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.2 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S3-1'

E302079-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*107 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S3-3'

E302079-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/17/23	
Toluene	ND	0.0250	1	02/17/23	02/17/23	
o-Xylene	ND	0.0250	1	02/17/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/17/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*02/17/23*	*02/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*107 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S4-1'

E302079-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S4-3'

E302079-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.2 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S5-1'

E302079-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.3 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*106 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

S5-3'

E302079-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.9 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*106 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

SW1

E302079-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/17/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*02/17/23*	*02/17/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

SW2

E302079-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*84.5 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/18/23	
Surrogate: n-Nonane		*110 %*	*50-200*	*02/17/23*	*02/18/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

SW3

E302079-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/18/23	
Surrogate: n-Nonane		*112 %*	*50-200*	*02/17/23*	*02/18/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

SW4

E302079-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Benzene	ND	0.0250	1	02/17/23	02/18/23	
Ethylbenzene	ND	0.0250	1	02/17/23	02/18/23	
Toluene	ND	0.0250	1	02/17/23	02/18/23	
o-Xylene	ND	0.0250	1	02/17/23	02/18/23	
p,m-Xylene	ND	0.0500	1	02/17/23	02/18/23	
Total Xylenes	ND	0.0250	1	02/17/23	02/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2307045
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/17/23	02/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.3 %*	*70-130*	*02/17/23*	*02/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2307040
Diesel Range Organics (C10-C28)	ND	25.0	1	02/17/23	02/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/17/23	02/18/23	
Surrogate: n-Nonane		*113 %*	*50-200*	*02/17/23*	*02/18/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2307046
Chloride	ND	20.0	1	02/17/23	02/17/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2307045-BLK1)									Prepared: 02/17/23 Analyzed: 02/17/23
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	*7.99*		*8.00*		*99.9*	*70-130*			
LCS (2307045-BS1)									Prepared: 02/17/23 Analyzed: 02/17/23
Benzene	4.46	0.0250	5.00		89.2	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.68	0.0250	5.00		93.7	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.34	0.0500	10.0		93.4	70-130			
Total Xylenes	14.1	0.0250	15.0		93.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.97*		*8.00*		*99.6*	*70-130*			
Matrix Spike (2307045-MS1)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Benzene	4.73	0.0250	5.00	ND	94.6	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	9.91	0.0500	10.0	ND	99.1	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.25*		*8.00*		*103*	*70-130*			
Matrix Spike Dup (2307045-MSD1)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Benzene	4.53	0.0250	5.00	ND	90.6	54-133	4.34	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133	4.11	20	
Toluene	4.76	0.0250	5.00	ND	95.2	61-130	4.17	20	
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131	4.20	20	
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131	3.97	20	
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131	4.05	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.26*		*8.00*		*103*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2307045-BLK1)									Prepared: 02/17/23 Analyzed: 02/17/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.03*		*8.00*		*87.8*	*70-130*			
LCS (2307045-BS2)									Prepared: 02/17/23 Analyzed: 02/17/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.26*		*8.00*		*90.7*	*70-130*			
Matrix Spike (2307045-MS2)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.97*		*8.00*		*87.1*	*70-130*			
Matrix Spike Dup (2307045-MSD2)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.7	70-130	6.61	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.91*		*8.00*		*86.4*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2307040-BLK1)									Prepared: 02/17/23 Analyzed: 02/17/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.3*		*50.0*		*115*	*50-200*			
LCS (2307040-BS1)									Prepared: 02/17/23 Analyzed: 02/17/23
Diesel Range Organics (C10-C28)	197	25.0	250		78.9	38-132			
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			
Matrix Spike (2307040-MS1)				**Source: E302079-05**					Prepared: 02/17/23 Analyzed: 02/17/23
Diesel Range Organics (C10-C28)	220	25.0	250	ND	88.0	38-132			
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			
Matrix Spike Dup (2307040-MSD1)				**Source: E302079-05**					Prepared: 02/17/23 Analyzed: 02/17/23
Diesel Range Organics (C10-C28)	210	25.0	250	ND	84.0	38-132	4.56	20	
Surrogate: n-Nonane	*54.5*		*50.0*		*109*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mad dog 15 Fed 1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/21/2023 12:00:39PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2307046-BLK1)									Prepared: 02/17/23 Analyzed: 02/17/23
Chloride	ND	20.0							
LCS (2307046-BS1)									Prepared: 02/17/23 Analyzed: 02/17/23
Chloride	245	20.0	250		98.2	90-110			
Matrix Spike (2307046-MS1)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Chloride	247	40.0	250	ND	98.7	80-120			
Matrix Spike Dup (2307046-MSD1)				**Source: E302079-01**					Prepared: 02/17/23 Analyzed: 02/17/23
Chloride	244	40.0	250	ND	97.5	80-120	1.23	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:	Mad dog 15 Fed 1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/21/23 12:00

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 2

01058-0007 ce

Client: Pima Environmental Services	Bill To	Lab Use Only	TAT / EPA Program
Project: Mad dog 15 Fed 1	Attention: Devon	Lab WO# E302079	Job Number 3020
Project Manager: Tom Bynum	Address:	1D 2D 3D Standard: X	CWA SDWA RCRA
Address: 5614 N. Lovington Hwy.	City, State, Zip		
City, State, Zip Hobbs, NM, 88240	Phone:		
Phone: 580-748-1613	Email:		
Email: tom@pimaoil.com	Pima Project # 1-176		
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			BGDOC NM	BGDOC TX			Remarks
9:00	2-14-23	S	1	S1-1'	1									X				
9:05	"	"	"	S1-3'	2									"				
9:10	"	"	"	S2-1'	3													
9:15	"	"	"	S2-3'	4													
9:20	"	"	"	S3-1'	5													
9:25	"	"	"	S3-3'	6													
9:30	"	"	"	S4-1'	7													
9:35	"	"	"	S4-3'	8													
9:40	"	"	"	S5-1'	9													
9:45	"	"	"	S5-3'	10													

State: NM X | CO | UT | AZ | TX

Additional Instructions:

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: Andriana Benavidez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2-15-23	2:00	Michelle Gaytan	2-15-23	1400
Michelle Gaytan	2-15-23	1700	Lorenzo Lee	2-16-23	1720
Lorenzo Lee	2-16-23	2231	Cartha Chee	2/17/23	8:15

Lab Use Only — Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

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Project Information | Chain of Custody | Page 2 of 2

Client: Pima Environmental Services	Bill To
Project: Mad dog 15 Fed 1	Attention: Devon
Project Manager: Tom Bynum	Address:
Address: 5614 N. Lovington Hwy.	City, State, Zip
City, State, Zip Hobbs, NM, 88240	Phone:
Phone: 580-748-1613	Email:
Email: tom@pimaoil.com	Pima Project # 1-176
Report due by:	

Lab Use Only: Lab WO# E302079 | Job Number 01058-0007

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
9:50	2/14/23	S	1	SW1	11	X	
9:55				SW2	12		
10:00				SW3	13		
10:05				SW4	14		

Additional Instructions: Billing #: Devon

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: Adriana Benavidez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
AB	2-15-23	2:00	Mirella Cuys	2-15-23	1400
Mirella Cuys	2-15-23	1700	Lorenza Lira	2-16-23	1700
Lorenza Lira	2-16-23	2230	Carla Chat	2/17/23	8:15

Lab Use Only — Received on ice: (Y) / N

T1: T2: T3:

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 2/17/2023 9:15:37AM

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:	02/17/23 08:15	Work Order ID:	E302079
Phone:	(575) 631-6977	Date Logged In:	02/16/23 14:46	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	02/22/23 07:00 (3 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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 filteration 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

Comments/Resolution

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 194690

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 194690
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	3/20/2023