

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2312126971
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: Environmental Professional
Signature: Dale Woodall Date: 5/31/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/31/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

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: Nelson Velez Date: 08/28/2023
Printed Name: Nelson Velez Title: Environmental Specialist – Adv



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

May 30, 2023

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

Re: Site Assessment, Liner Inspection, and Closure Report
Caballo 9 State 1 Battery
API No. N/A
GPS: Latitude 32.321555 Longitude -103.481628
UL -- E, 9, T23S, R34E
Lea County, NM
NMOCD Ref. No. NAPP2312126971

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 Caballo 9 State 1 Battery (Caballo). The initial C-141 was submitted on May 16, 2023 (Appendix C). This incident was assigned Incident ID NAPP2312126971 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Caballo is located approximately twenty (22) miles southwest of Eunice, NM. This spill site is in Unit E, Section 9, Township 23S, Range 34E, Latitude 32.321555 Longitude -103.481628, 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 Pyote and Maljamar fine sands, 0 to 3 percent slopes 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 Caballo (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 285 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 135 feet BGS. The closest waterway is a Salt Playa located approximately 3.88 miles to the southeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

Reference Figure 2 for a Topographic Map.

Caballo 9 State 1 Battery| [Devon Energy](#)

Release Information

NAPP2312126971: On May 1, 2023, a valve on water tank developed a leak and sprayed outside the containment onto the pad. The released fluids were calculated to be approximately 16.46 barrels (bbls) of produced water. Vacuum trucks were able to recover approximately 15 bbls fluid from the lined SPCC containment ring. Once fluids were removed, the liner was visually inspected by Devon field staff for any pinholes or punctures.

Remediation Activities and Soil Sampling Results

May 4, 2023, Pima mobilized personnel to the site to begin collecting soil samples from spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

5/4/23 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY CABALLO 9 STATE 1								
Sample Date: 5/4/2023 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	0	101
	2'	ND	ND	ND	ND	ND	0	42.8
	3'	ND	ND	ND	ND	ND	0	20.8
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	287
	2'	ND	ND	ND	ND	ND	0	24.4
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	28.5
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC.

Complete laboratory reports can be found in Appendix E.

Site Assessment and Liner Inspection

On May 25, 2023, after sending the 48-hour Notification (Appendix C) via email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The Liner Inspection form and photographic documentation can be found in Appendix D.

Closure Request

After careful review, Pima requests that this incident, NAPP2312126971, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,



Gio Gomez
Project Manager
Pima Environmental Services,

Attachments

Figures:

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

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 48 Hour Notification
- Appendix D – Liner Inspection Form & Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map



3-Karst Map

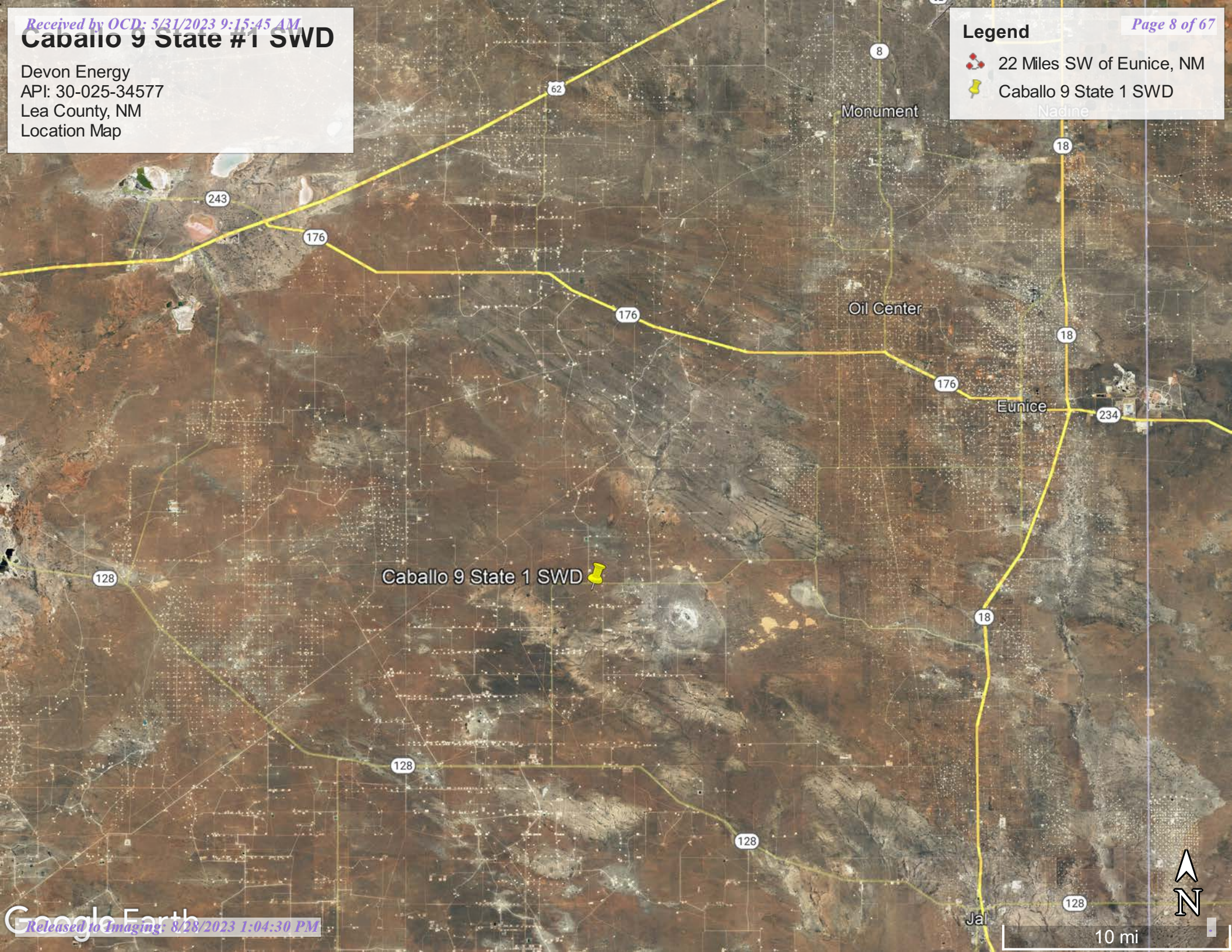
4-Site Map

Caballo 9 State #1 SWD

Devon Energy
API: 30-025-34577
Lea County, NM
Location Map

Legend

-  22 Miles SW of Eunice, NM
-  Caballo 9 State 1 SWD



10 mi

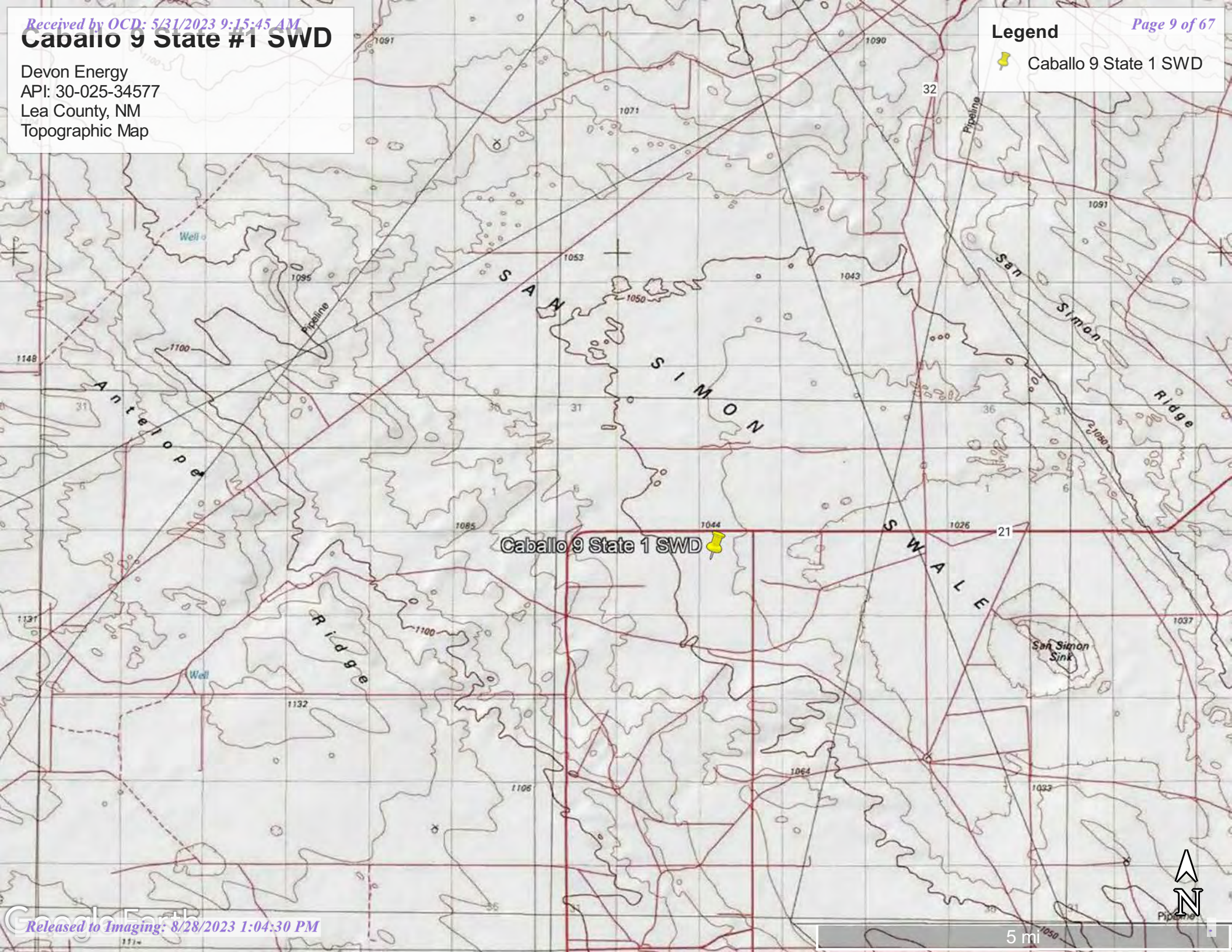
Caballo 9 State #1 SWD

Devon Energy
API: 30-025-34577
Lea County, NM
Topographic Map

Legend







Caballo 9 State 1 SWD

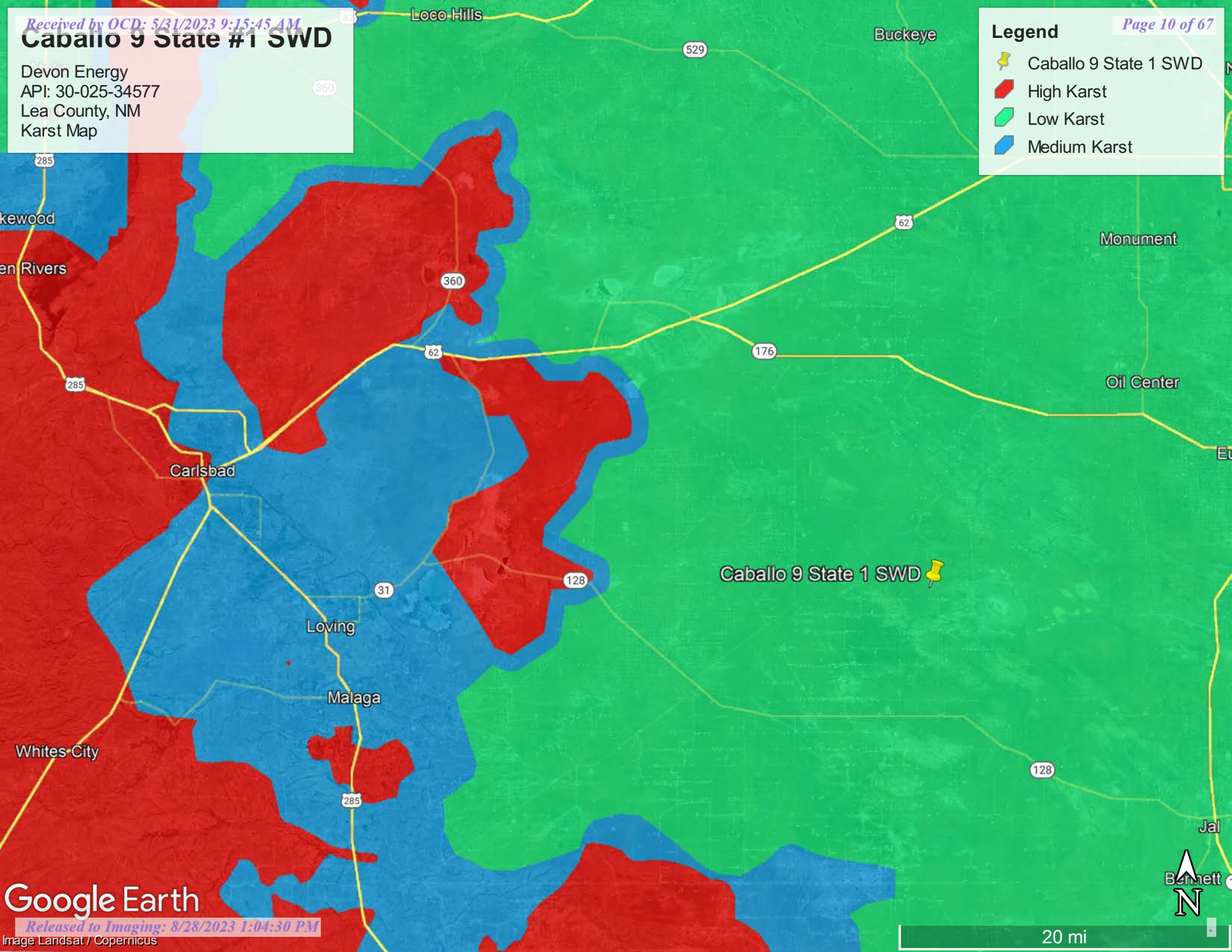


Caballo 9 State #1 SWD

Devon Energy
API: 30-025-34577
Lea County, NM
Karst Map

Legend





-  Caballo 9 State 1 SWD
-  High Karst
-  Low Karst
-  Medium Karst



Caballo 9 State #1 SWD

Devon Energy
API: 30-025-34577
Lea County, NM
Site Map

Legend

-  Caballo 9 State 1
-  Caballo spill 269 SQFT
-  Sidewalls/Background
-  Samples





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	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01622 POD1		CP	LE	1	3	3	04	23S	34E	642830	3577872	783	575	285	290
CP 01502 POD2		CP	LE	4	3	3	05	23S	34E	642074	3577676	1059	680	300	380
CP 01760 POD1		CP	LE	3	1	2	16	23S	34E	643627	3575897	1373	767	290	477
CP 01730 POD1		CP	LE	2	2	1	16	23S	34E	643549	3575824	1403	594	200	394
CP 00556 POD1		CP	LE	4	4	3	08	23S	34E	641762	3576206	1496	497	255	242
CP 01502 POD1		CP	LE	4	3	3	05	23S	34E	641316	3577635	1731	648	200	448
CP 01075 POD1		CP	LE	1	1	1	08	23S	34E	641278	3577525	1737	430	20	410
CP 00872 POD1		CP	LE	1	1	1	08	23S	34E	641225	3577504*	1783	494	305	189
CP 01130 POD2		CP	LE	2	1	2	07	23S	34E	640674	3577549	2332	27		
CP 01130 POD1		CP	LE	2	1	2	07	23S	34E	640662	3577558	2345	27		
CP 01886 POD1		CP	LE	4	1	4	07	23S	34E	640646	3576545	2382			
CP 00278 POD1		CP	LE	1	3	4	06	23S	34E	640413	3577897	2670	640		
CP 01829 POD1		CP	LE	4	4	2	32	22S	34E	642559	3580172	3098	1410	1150	260
CP 01705 POD1		CP	LE	4	4	2	32	22S	34E	642588	3580179	3101	700	305	395
CP 01706 POD1		CP	LE	4	4	2	32	22S	34E	642603	3580185	3106	340	282	58
CP 00637		CP	LE	3	3	4	15	23S	34E	645293	3574541*	3461	430	430	0
E 07616 POD1		E	TO							646466	3576970	3506	500	300	200
CP 01785 POD1		CP	LE	4	1	3	14	23S	34E	646203	3575003	3859	488	245	243
CP 01740 POD1		CP	LE	1	1	1	34	22S	34E	644402	3580765	3938	600	560	40
CP 01803 POD1		CP	LE	1	1	1	34	22S	34E	644357	3580786	3941	240	180	60
CP 01826 POD1		CP	LE	1	1	1	34	22S	34E	644379	3580778	3941	698	180	518

Average Depth to Water: **322 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1150 feet**

Record Count: 21

UTM NAD83 Radius Search (in meters):

Easting (X): 642962.41

Northing (Y): 3577099.95

Radius: 4000

*UTM location was derived from PLSS - see Help

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

5/3/23 11:21 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01622 POD1	1	3	3	04	23S	34E	642830	3577872

x

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

Driller Name: BRYCE WALLACE

Drill Start Date: 09/20/2019	Drill Finish Date: 10/02/2019	Plug Date:
Log File Date: 10/17/2019	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 280 GPM
Casing Size: 9.70	Depth Well: 575 feet	Depth Water: 285 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	150	470	Sandstone/Gravel/Conglomerate
	470	575	Shale/Mudstone/Siltstone

x

Casing Perforations:	Top	Bottom
	275	575

x

Meter Number: 20210	Meter Make: TURBINES INC
Meter Serial Number: 2016131	Meter Multiplier: 1.0000
Number of Dials: 7	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
08/02/2021	2021	773913	A	ad		0
09/01/2021	2021	773913	A	ad		0
10/05/2021	2021	773913	A	ad		0
11/04/2021	2021	773913	A	ad		0
12/13/2021	2021	773913	A	ad		0
01/01/2022	2022	773913	A	ad		0
02/08/2022	2022	773913	A	ad		0
03/02/2022	2022	773913	A	ad		0
04/01/2022	2022	773913	A	ad		0
05/06/2022	2022	773913	A	ad		0
06/07/2022	2022	773913	A	ad		0
07/10/2022	2022	773913	A	ad		0
09/05/2022	2022	773913	A	ad		0
10/10/2022	2022	773913	A	ad		0
11/10/2022	2022	773913	A	ad		0

x

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

x

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.

5/23/23 11:55 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 hide News Bulletins

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

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 321924103245501

Minimum number of levels = 1

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

USGS 321924103245501 23S.35E.06.33133

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'24", Longitude 103°24'55" NAD27

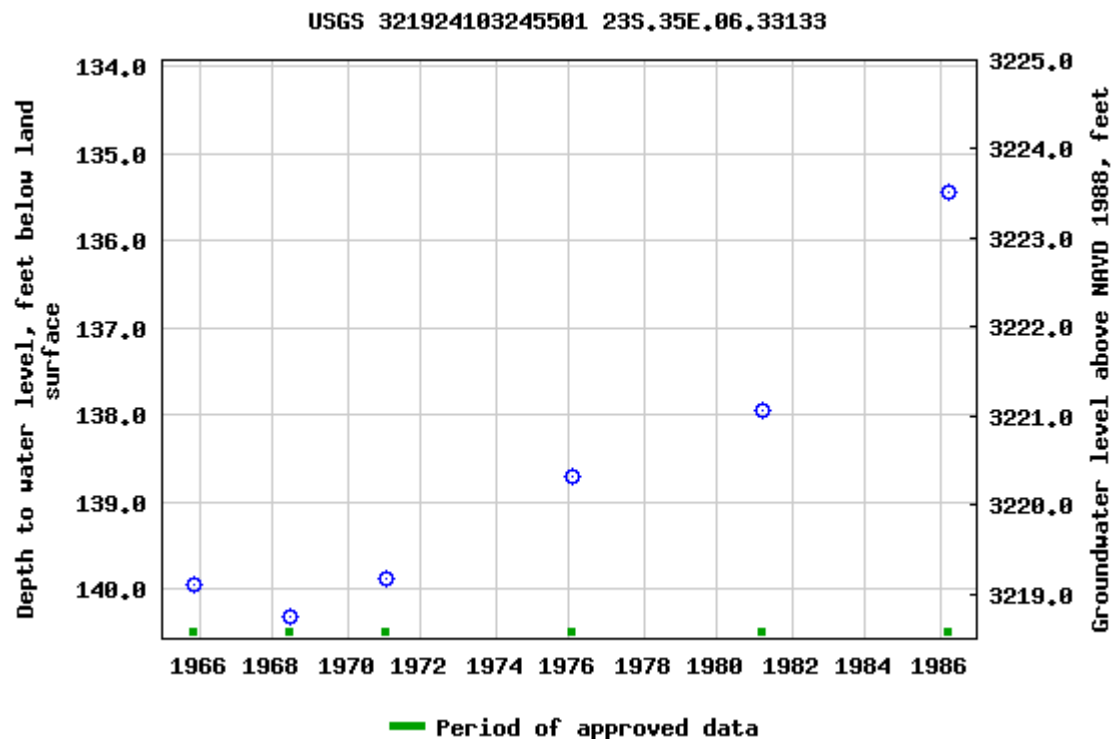
Land-surface elevation 3,359 feet above NAVD88

The depth of the well is 200 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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](#)

[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

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

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-05-03 13:18:42 EDT

0.58 0.5 nadww02

Caballo 9 State #1 SWD

Devon Energy
API: 30-025-34577
Lea County, NM
Surface Water Map

Legend

- 3.88 Miles
- Caballo 9 State 1 SWD

Caballo 9 State 1 SWD

Salt Playa

128

128

128

128

18

176

176





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

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

Interpretive groups

Land capability classification (irrigated): 6e

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

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Description of Maljamar

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

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

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°29'11"W 32°19'33"N



Legend

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

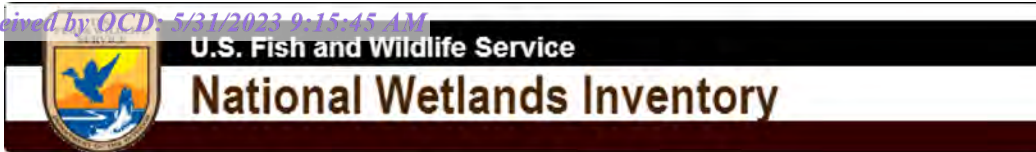
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN 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.

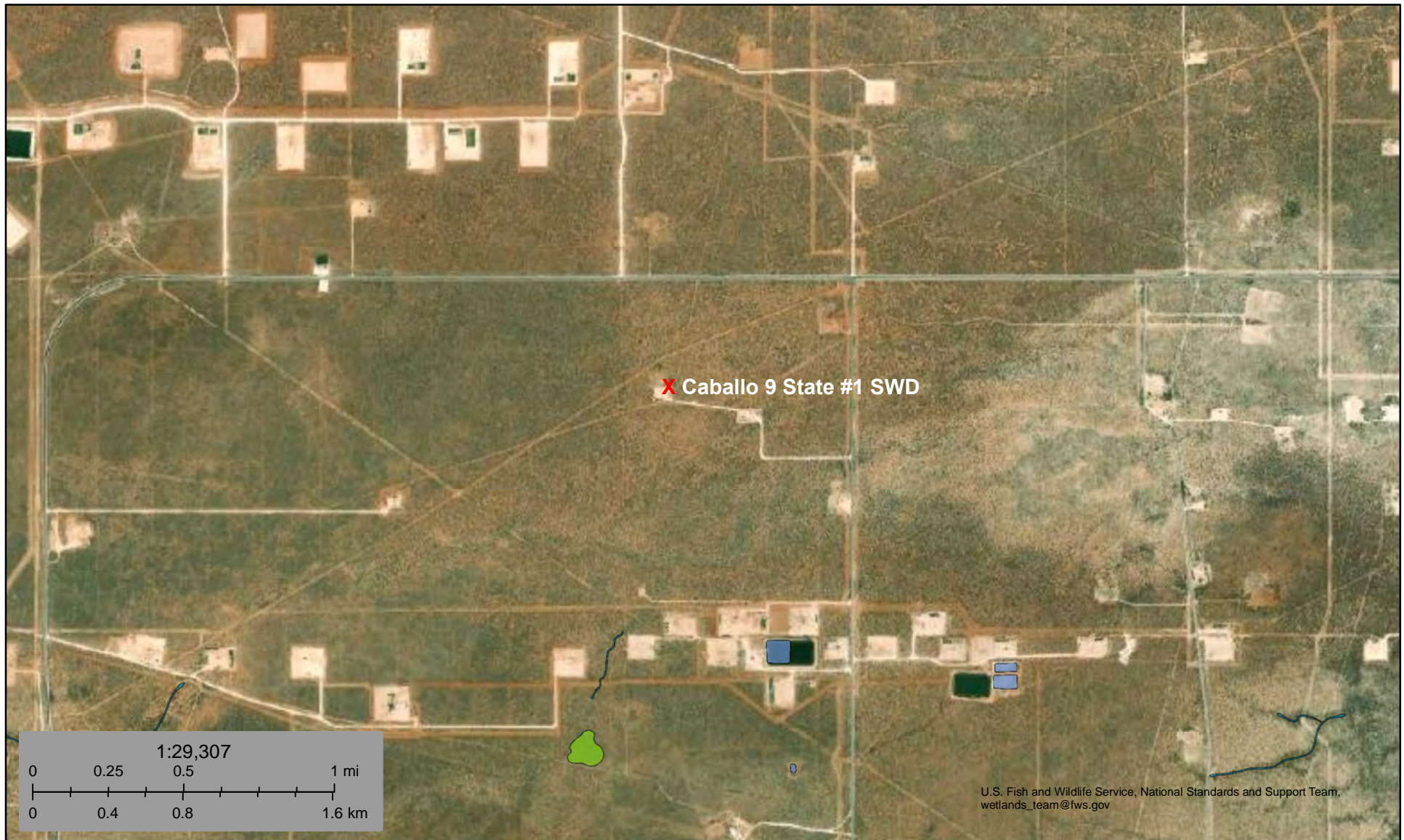
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/16/2023 at 12:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



May 3, 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

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone
Contact email Dale.Woodall@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.321555 Longitude -103.481628
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Caballo 9 State 1 Battery	Site Type SWD
Date Release Discovered 5/1/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	9	23S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 16.46 BBLS	Volume Recovered (bbls) 15 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Valve on water tank developed leak.

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra Ruiz</u> Signature: <u><i>Kendra Ruiz</i></u> email: <u>Kendra.Ruiz@dvn.com</u>	Title: <u>EHS Associate</u> Date: <u>5/16/2023</u> Telephone: <u>575-748-0167</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/1/2023</u>

Spill Volume(Bbls) Calculator		Spills In Lined Containment	
Inputs in blue, Outputs in red		Measurements Of Standing Fluid	
Contaminated Soil measurement		Length(Ft)	75
Area (Ft ²)	Depth (in)	Width(Ft)	25.00
701	0.500	Depth(in.)	0.7
Cubic Feet of Soil Impacted	29.208	Total Capacity without tank displacements (bbls)	19.48
Barrels of Soil Impacted	5.21	No. of 500 bbl Tanks In	3
Soil Type	Clay	No. of Other Tanks In	
Barrels of Oil Assuming 100% Saturation	0.52	OD Of Other	
Saturation	Damp no fluid when squeezed	Tanks In Standing Fluid(feet)	
Estimated Barrels of Oil Released	0.5206	Total Volume of standing fluid accounting for	15.29
Free Standing Fluid Only			
Area (Ft ²)	Depth (inches)		
701	0.063		
Standing fluid	0.650		
Total fluids spilled on surface soils	1.171	Total fluids spilled combined	16.460

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 217390

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 217390
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/17/2023

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2312126971
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: Environmental Professional
Signature: Dale Woodall Date: 5/31/2023
email: dale.woodall@dvN.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2312126971
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional
Signature: Dale Woodall Date: 5/31/2023
email: dale.woodall@dvn.com Telephone: 575-748-1839

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: _____



Gio PimaOil <gio@pimaoil.com>

Liner Inspection at Caballo 9 State 1 Battery

1 message

Gio PimaOil <gio@pimaoil.com>

Mon, May 22, 2023 at 2:40 PM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

*Good Afternoon,
Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Caballo 9 State 1 Battery for the incident NAPP2312126971. Pima personnel are scheduled to be on site for this Inspection event at approximately 7:00 a.m. On Thursday, May 25, 2023. If you have any questions or concerns, please let me know. Thank you*

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Liner Inspection Form

Photographic Documentation



Pima Environmental Services, LLC

Liner Inspection FormCompany Name: Devon EnergySite: Caballo 9 State BatteryLat/Long: 32.321555, -103.481628NMOCD Incident ID
& Incident Date: NAPP2312126971 5/1/20232-Day Notification
Sent: via Email by Gio Gomez 5/22/2023Inspection Date: 5/25/2023

Liner Type: Earthen w/liner Earthen no liner Polystar

Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	
Does the liner have integrity to contain a leak?	X		

Comments: _____

Inspector Name: Andrew Franco Inspector Signature: Andrew Franco



**SITE PHOTOGRAPHS
DEVON ENERGY
CABALLO 9 STATE #1**

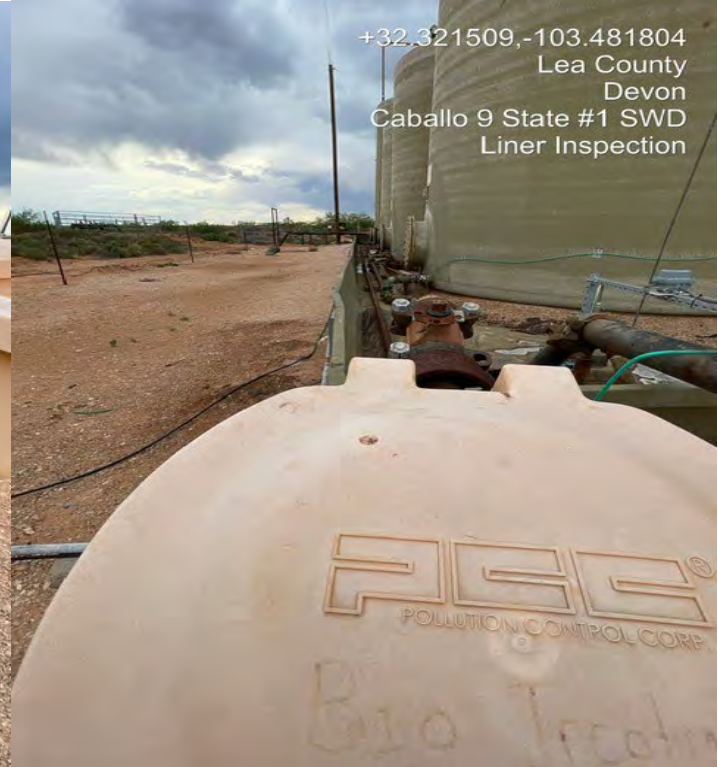
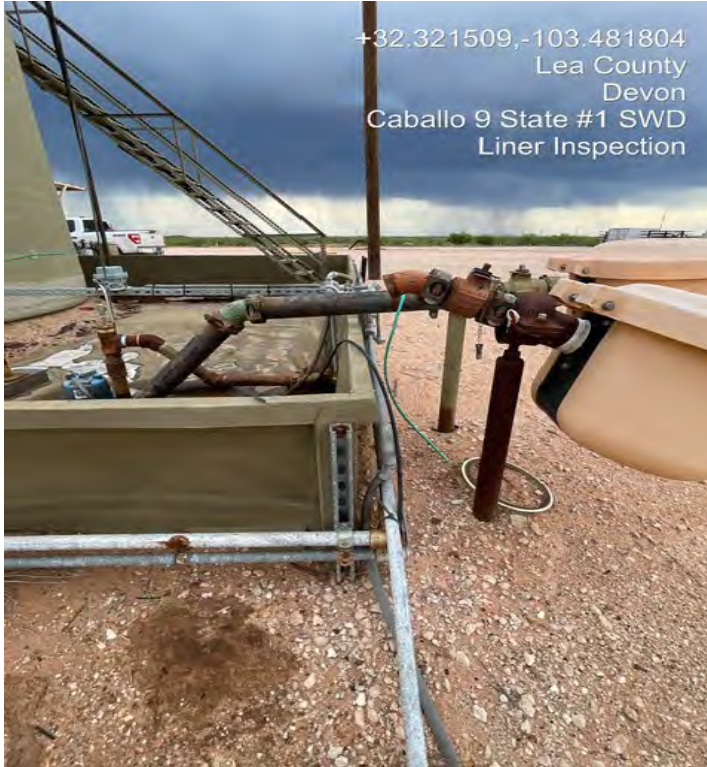
Site Assessment





Liner Inspection







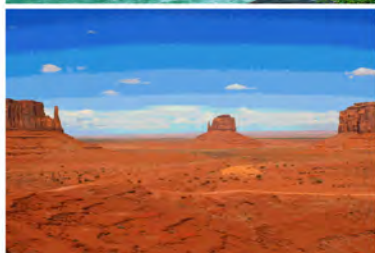


Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Caballo 9 st SWD 1

Work Order: E305038

Job Number: 01058-0007

Received: 5/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/11/23

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: 5/11/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Caballo 9 st SWD 1
Workorder: E305038
Date Received: 5/8/2023 7:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/8/2023 7:45:00AM, under the Project Name: Caballo 9 st SWD 1.

The analytical test results summarized in this report with the Project Name: Caballo 9 st SWD 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
S1 - 1'	5
S1 - 2'	6
S1 - 3'	7
S1 - 4'	8
S2 - 1'	9
S2 - 2'	10
S2 - 3'	11
S3 - 4'	12
SW1	13
SW2	14
SW3	15
SW4	16
BG1	17
QC Summary Data	18
QC - Volatile Organics by EPA 8021B	18
QC - Nonhalogenated Organics by EPA 8015D - GRO	19
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	20
QC - Anions by EPA 300.0/9056A	21
Definitions and Notes	22
Chain of Custody etc.	23

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Caballo 9 st SWD 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/11/23 14:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E305038-01A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S1 - 2'	E305038-02A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S1 - 3'	E305038-03A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S1 - 4'	E305038-04A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S2 - 1'	E305038-05A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S2 - 2'	E305038-06A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S2 - 3'	E305038-07A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
S3 - 4'	E305038-08A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
SW1	E305038-09A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
SW2	E305038-10A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
SW3	E305038-11A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
SW4	E305038-12A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.
BG1	E305038-13A	Soil	05/04/23	05/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S1 - 1'

E305038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
Surrogate: 4-Bromochlorobenzene-PID	96.3 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319029
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane	97.6 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2319008
Chloride	101	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S1 - 2'

E305038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	42.8	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S1 - 3'

E305038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	20.8	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S1 - 4'

E305038-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S2 - 1'

E305038-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	287	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S2 - 2'

E305038-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	24.4	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S2 - 3'

E305038-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		05/09/23	05/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

S3 - 4'

E305038-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319029
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2319008
Chloride	28.5	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

SW1

E305038-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

SW2

E305038-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

SW3

E305038-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

SW4

E305038-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2319001
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2319029
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2319008
Chloride	ND	20.0	1	05/08/23	05/08/23	



Sample Data

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

Project Name: Caballo 9 st SWD 1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
5/11/2023 2:33:18PM

BG1

E305038-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Benzene	ND	0.0250	1	05/08/23	05/08/23	
Ethylbenzene	ND	0.0250	1	05/08/23	05/08/23	
Toluene	ND	0.0250	1	05/08/23	05/08/23	
o-Xylene	ND	0.0250	1	05/08/23	05/08/23	
p,m-Xylene	ND	0.0500	1	05/08/23	05/08/23	
Total Xylenes	ND	0.0250	1	05/08/23	05/08/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2319001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/08/23	05/08/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		05/08/23	05/08/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2319029	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/10/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		05/09/23	05/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2319008	
Chloride	ND	20.0	1	05/08/23	05/08/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Caballo 9 st SWD 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 2:33:18PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2319001-BLK1)

Prepared: 05/08/23 Analyzed: 05/08/23

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	7.44		8.00		93.0	70-130			

LCS (2319001-BS1)

Prepared: 05/08/23 Analyzed: 05/08/23

Benzene	4.38	0.0250	5.00		87.6	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.3	70-130			
Toluene	4.64	0.0250	5.00		92.9	70-130			
o-Xylene	4.67	0.0250	5.00		93.4	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	14.0	0.0250	15.0		93.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.2	70-130			

Matrix Spike (2319001-MS1)

Source: E305037-01

Prepared: 05/08/23 Analyzed: 05/08/23

Benzene	4.15	0.0250	5.00	ND	83.0	54-133			
Ethylbenzene	4.36	0.0250	5.00	ND	87.1	61-133			
Toluene	4.42	0.0250	5.00	ND	88.5	61-130			
o-Xylene	4.46	0.0250	5.00	ND	89.3	63-131			
p,m-Xylene	8.88	0.0500	10.0	ND	88.8	63-131			
Total Xylenes	13.3	0.0250	15.0	ND	88.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

Matrix Spike Dup (2319001-MSD1)

Source: E305037-01

Prepared: 05/08/23 Analyzed: 05/08/23

Benzene	4.37	0.0250	5.00	ND	87.5	54-133	5.18	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.4	61-133	4.81	20	
Toluene	4.64	0.0250	5.00	ND	92.8	61-130	4.77	20	
o-Xylene	4.68	0.0250	5.00	ND	93.7	63-131	4.80	20	
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131	4.72	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.3	63-131	4.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Caballo 9 st SWD 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 2:33:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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

Blank (2319001-BLK1)

Prepared: 05/08/23 Analyzed: 05/08/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2319001-BS2)

Prepared: 05/08/23 Analyzed: 05/08/23

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

Matrix Spike (2319001-MS2)

Source: E305037-01

Prepared: 05/08/23 Analyzed: 05/08/23

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

Matrix Spike Dup (2319001-MSD2)

Source: E305037-01

Prepared: 05/08/23 Analyzed: 05/08/23

Gasoline Range Organics (C6-C10)	40.8	20.0	50.0	ND	81.5	70-130	7.06	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Caballo 9 st SWD 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 2:33:18PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2319029-BLK1)					Prepared: 05/09/23 Analyzed: 05/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS (2319029-BS1)					Prepared: 05/09/23 Analyzed: 05/09/23				
Diesel Range Organics (C10-C28)	276	25.0	250		111	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2319029-MS1)					Source: E305038-08		Prepared: 05/09/23 Analyzed: 05/09/23		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			

Matrix Spike Dup (2319029-MSD1)					Source: E305038-08		Prepared: 05/09/23 Analyzed: 05/09/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	1.54	20	
Surrogate: n-Nonane	50.4		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Caballo 9 st SWD 1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/11/2023 2:33:18PM

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 (2319008-BLK1)					Prepared: 05/08/23 Analyzed: 05/08/23				
Chloride	ND	20.0							
LCS (2319008-BS1)					Prepared: 05/08/23 Analyzed: 05/08/23				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2319008-MS1)					Source: E305038-01		Prepared: 05/08/23 Analyzed: 05/08/23		
Chloride	344	20.0	250	101	97.5	80-120			
Matrix Spike Dup (2319008-MSD1)					Source: E305038-01		Prepared: 05/08/23 Analyzed: 05/08/23		
Chloride	347	20.0	250	101	98.6	80-120	0.830	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:	Caballo 9 st SWD 1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/11/23 14:33

- 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

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Caballo 954 SWD1</u>		Attention: <u>Devan</u>		Lab WO# <u>E305038</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.		City, State, Zip											
City, State, Zip: Hobbs, NM, 88240		Phone:											
Phone: 580-748-1613		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>299</u>											
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
8:00 ^{am}	5/4/23	S	1	S1-1'	1							X		
8:05 ^{am}	5/4/23		1	S1-2'	2									
8:10 ^{am}	5/4/23		1	S1-3'	3									
8:15 ^{am}	5/4/23		1	S1-4'	4									
8:20 ^{am}	5/4/23		1	S2-1'	5									
8:25 ^{am}	5/4/23		1	S2-2'	6									
8:30 ^{am}	5/4/23		1	S2-3'	7									
8:35 ^{am}	5/4/23		1	S3-4'	8									
8:40 ^{am}	5/4/23		1	SW1	9									
8:45 ^{am}	5/4/23		1	SW2	10									

Additional Instructions:

Bidding # 21162428

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:

Relinquished by: (Signature) <u>Karime Adams</u>	Date <u>5-5-23</u>	Time <u>14:42</u>	Received by: (Signature) <u>Devan</u>	Date <u>5-5-23</u>	Time <u>14:47</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 5 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>5-5-23</u>	Time <u>2300</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>5/8/23</u>	Time <u>7:45</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date	Time	Received by: (Signature)	Date	Time	

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

[illegible]

Envirotech Analytical Laboratory

Printed: 5/8/2023 9:19:35AM

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:	05/08/23 07:45	Work Order ID:	E305038
Phone:	(575) 631-6977	Date Logged In:	05/08/23 08:34	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	05/12/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: 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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 222183

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 222183
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/28/2023