

Remediation Closure Report

Incident ID: nAPP2401144454
Skelly D State #4
API # 30-025-30248

Prepared for:
Momentum Operating Co., Inc.
Megaen Birdwell
224 South Main
P.O. Box 2439
Albany, Texas 76430
megaen@momentumoperating.com

July 30, 2024

ROSE ROCKTM
ENVIRONMENTAL SERVICES

P.O. Box 721926 • Oklahoma City, OK 73172
(405) 883-1095 • RoseRockEnv.com



Skelly D State #4 | pg 2

July 30, 2024

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

**RE: Remediation Closure Report
Skelly D State #4
API #30-025-30248
GPS: Latitude 32.6013412 Longitude -103.300354
ULSTR – I – 1 – 20S – 36E 2310 FSL 330 FEL Lea County, NM
NMOCD Incident ID nAPP2401144454**

Momentum Operating (Momentum) has contracted Rose Rock Environmental Services, LLC (Rose Rock) to prepare this remediation closure report for a crude oil and produced water mixed release that occurred at the Skelly D State #4 (Skelly) site. This incident was assigned Incident ID nAPP2401144454, by the New Mexico Oil Conservation Division (NMOCD). Correspondence from the NMOCD can be found in Appendix C.

Site Information and Site Characterization

Skelly is located approximately two and a half (2.5) miles southwest of Monument, NM. This spill site is in Unit I, Section 1, Township 20S, Range 36E, Latitude 32.6013412 Longitude -103.300354, Lea County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is made up of eolian and piedmont deposits; Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Pyote soils and Dune land, 0 to 3 percent slope according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The drainage class in this area is: Well drained (Appendix B). A Topographic Map can be found in Figure 2. The nearest surface water feature is a man-made pond located approximately 7.23 miles to the northwest of this site. There is a low potential for karst geology to be present around the Skelly (Figure 3).

Based upon the New Mexico Office of the State Engineer (L-14378-POD10) well water data, depth to the nearest groundwater in this area is 35 feet below grade surface (bgs), located approximately 0.52 miles west of this site. According to the United States Geological Survey (USGS 32609103175101 20S.37E.06.11312) well water data, depth to the nearest groundwater in this area is 23 feet bgs, located approximately 0.24 miles northeast of this site. See Appendix A for referenced water surveys and water-related maps. The closure criteria for this release will be classified in the less than 50' to groundwater section of Table 1 19.15.29.12 NMAC.

Release Information

nAPP2401144454: On October 5, 2017, less than a BBL of oil and water was released. All liquids have been recovered and removed. The New Mexico State Land Office examined aerial imagery of this site on or before July 28, 2023, and determined that Momentum had failed to remediate this spill.

Site Assessment, Delineation, and Remediation Activities

In 2017, Momentum performed an onsite initial assessment of the site. The well was shut in while waiting on a rig to replace the polish rod liner. Upon the successful polish rod and liner replacement, any soil found to be contaminated was excavated and removed to J&L Landfarm, Inc., clean weed free native soil was brought in and the area was backfilled in accordance with OCD practices and standards.



On October 10, 2023, Momentum returned to the site to collect soil samples at the request of the New Mexico State Land Office to comply with NMAC 19.15.29. Soil samples were collected and sent to Cardinal Laboratories for official analysis. The samples were analyzed according to EPA standards for Benzene, Toluene, Ethylbenzene, Xylenes, total BTEX, and chlorides. The results of this sampling event can be seen in the following data table. A corresponding Soil Sample Map can be found in Figure 4.

10/10/2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is < 50')								
Momentum Operating - Skelly D State #4 - nAPP2401144454								
Date: 10/10/2023		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
1	Surface	ND	ND	ND	ND	ND	0	32
2	Surface	ND	ND	ND	ND	ND	0	16
3	Surface	ND	ND	ND	ND	ND	0	16
4	Surface	ND	ND	ND	ND	ND	0	32

On January 30, 2024, Momentum returned to the site to collect additional samples of the release area after a surface scrape was performed and backfill material was brought to the site to rebuild the berm around the wellhead. A total of 9 soil samples were collected, immediately put on ice, jarred, and delivered to Cardinal Laboratories for official analysis. Each sample was analyzed for all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. A corresponding Sample Map can be found in Figure 5. Photographic Documentation can be found in Appendix D.

1/30/24 Soil Sampling Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is < 50')								
Momentum Operating - Skelly D State #2 - nAPP2401144454								
Date: 1/30/2024		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
Skelly D #4 - Surface Sample #1	Surface	ND	ND	ND	ND	ND	0	32
Skelly D #4 - Surface Sample #2	Surface	ND	ND	ND	ND	ND	0	32
Skelly D #4 - Surface Sample #3	Surface	ND	ND	ND	ND	ND	0	32
Skelly D #4 - Surface Sample #4	Surface	ND	ND	ND	ND	ND	0	32
Skelly D #4 - Surface Sample #5	Surface	ND	ND	ND	ND	ND	0	16
Skelly D #4 - Surface Sample #6	Surface	ND	ND	ND	ND	ND	0	16
Skelly D #4 - Surface Sample #7	Surface	ND	ND	ND	ND	ND	0	16
Skelly D #4 - Surface Sample #8	Surface	ND	ND	ND	ND	ND	0	16
Skelly D #4 - Surface Sample #9	Surface	ND	ND	ND	ND	ND	0	16

On February 23, 2024, after submitting a 48-hour notification of sampling event (Appendix C) (OCD Online: Permitting – under the Application ID 317112), Momentum returned to the site to collect additional samples from the release area. A total of 9 soil samples were collected from the previous sample points but this time from a depth of 2' bgs. After the samples were collected, they were immediately put on ice, jarred, then delivered to Cardinal Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. Reference the same corresponding Sample Map in Figure 5.



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2/23/24 Soil Sampling Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is < 50')								
Momentum Operating - Skelly D State #2 - nAPP2401144454								
Date: 2/23/2024			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
Skelly D #4 - Sample #1	2'	ND	ND	ND	ND	ND	0	80
Skelly D #4 - Sample #2	2'	ND	ND	ND	ND	ND	0	48
Skelly D #4 - Sample #3	2'	ND	ND	ND	ND	ND	0	48
Skelly D #4 - Sample #4	2'	ND	ND	ND	ND	ND	0	64
Skelly D #4 - Sample #5	2'	ND	ND	ND	ND	ND	0	16
Skelly D #4 - Sample #6	2'	ND	ND	ND	ND	ND	0	64
Skelly D #4 - Sample #7	2'	ND	ND	ND	ND	ND	0	64
Skelly D #4 - Sample #8	2'	ND	ND	ND	ND	ND	0	48
Skelly D #4 - Sample #9	2'	ND	ND	ND	ND	ND	0	64

Complete Laboratory Reports can be found in Appendix E.

Based on these lab results, the contaminant levels for all samples collected are under the regulatory limits according to the <50' depth to groundwater section of Table 1 19.15.29.12 NMAC.

Closure Request

After careful review, Rose Rock requests that this incident, nAPP2401144454, be closed. Momentum has complied with the applicable closure requirements for this incident and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan addressing a minimum of four feet of non-waste containing earthen material.

Should you have any questions or need additional information, please feel free to contact:

Momentum Operating Co., Inc.

Megaen Birdwell
(325) 762-2366 x 108
megaen@momentumoperating.com

Rose Rock Environmental Services

Jonathan Behymer
(405) 990-4225
jb@roserockenv.com

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Soil Sample Map
- 5- Sample Map

Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – 48-Hour Notification & NMOCD Correspondance
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Figures:

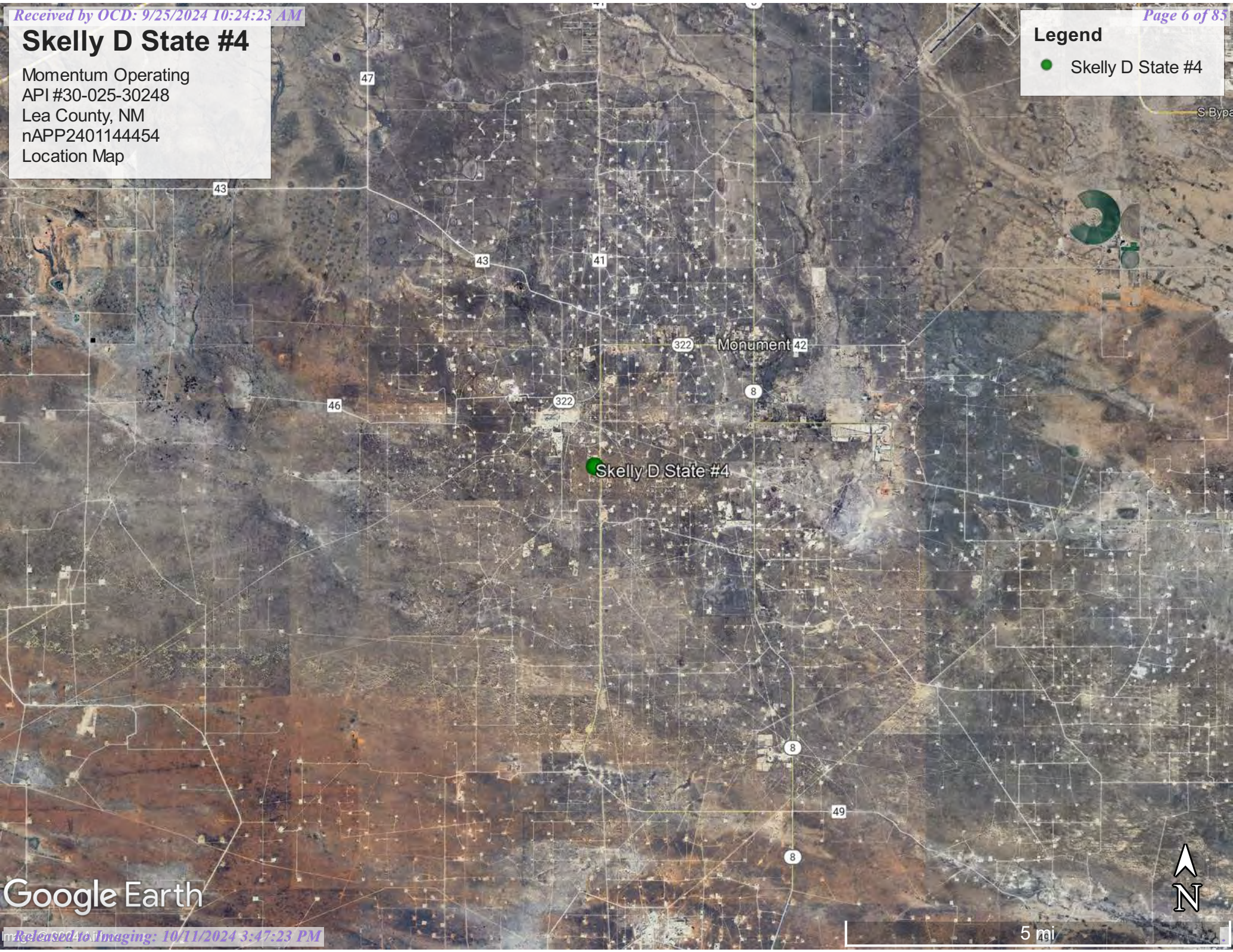
1. Location Map
2. Topographic Map
3. Karst Map
4. Sample Location Map 1
5. Sample Location Map 2

Skelly D State #4

Momentum Operating
API #30-025-30248
Lea County, NM
nAPP2401144454
Location Map

Legend

● Skelly D State #4



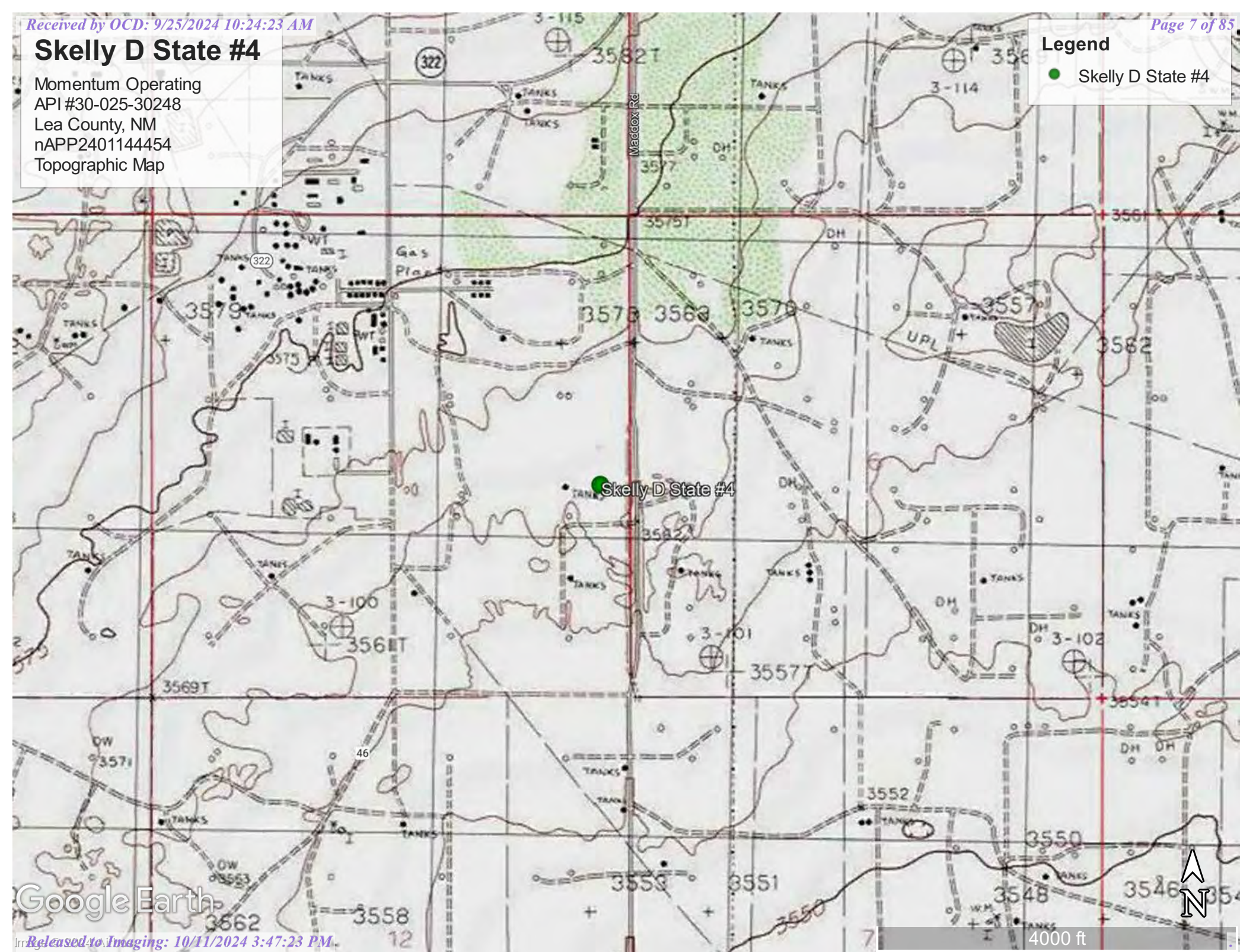
Google Earth



5 mi

Momentum Operating
API #30-025-30248
Lea County, NM
nAPP2401144454
Topographic Map

- Skelly D State #4

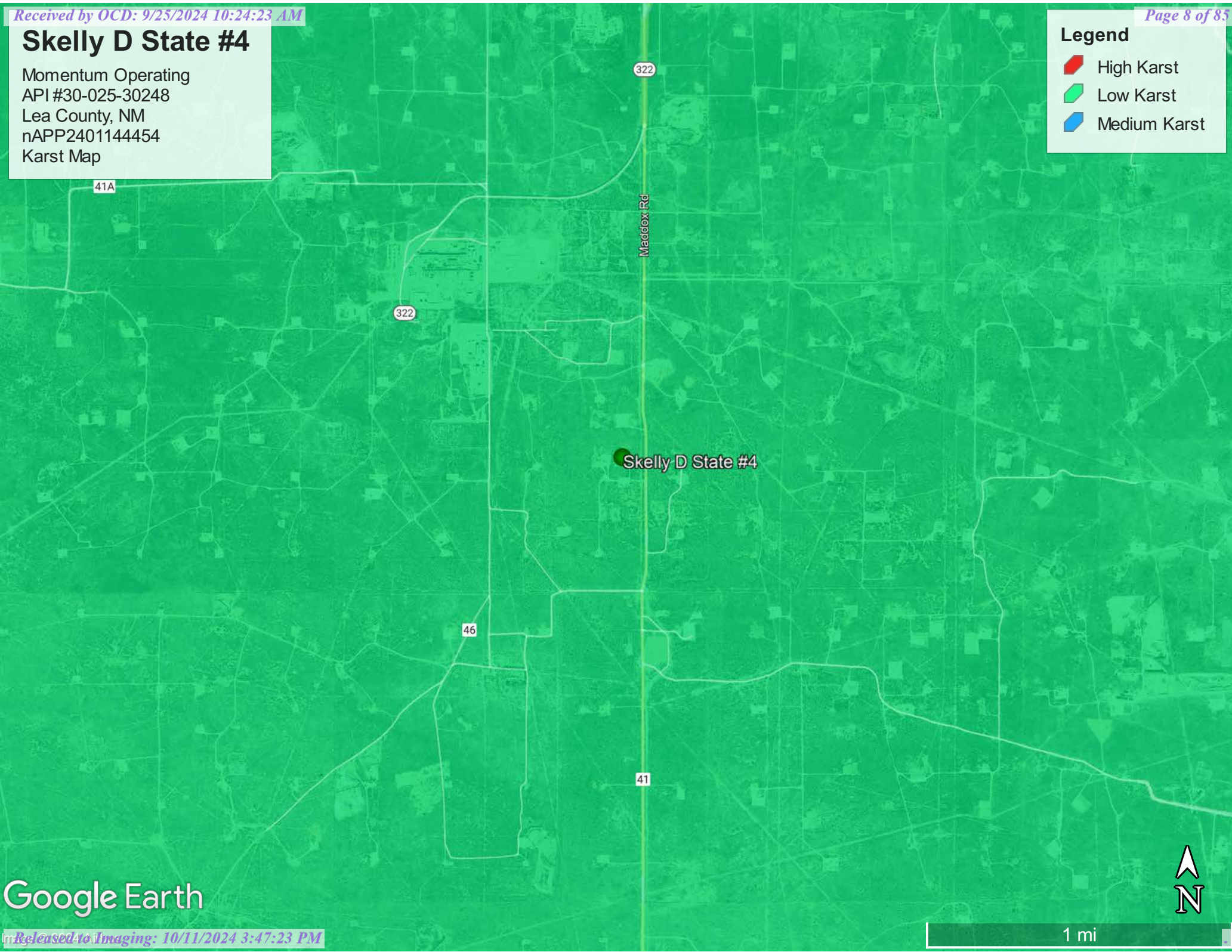


Skelly D State #4

Momentum Operating
API #30-025-30248
Lea County, NM
nAPP2401144454
Karst Map

Legend

- High Karst
- Low Karst
- Medium Karst

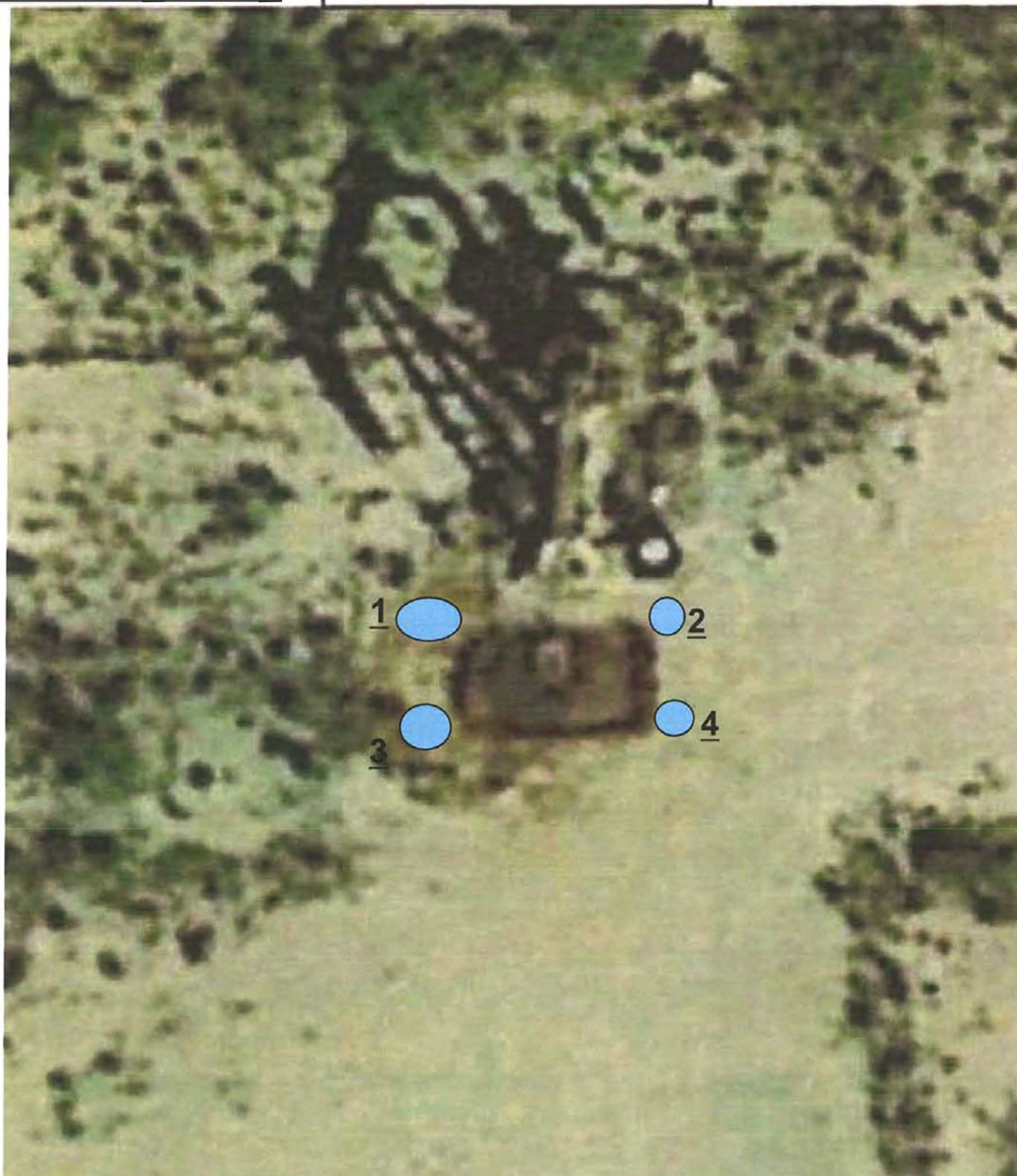


Google Earth

1 mi

Skelly D State #4
Soil Sample Map

11/2017

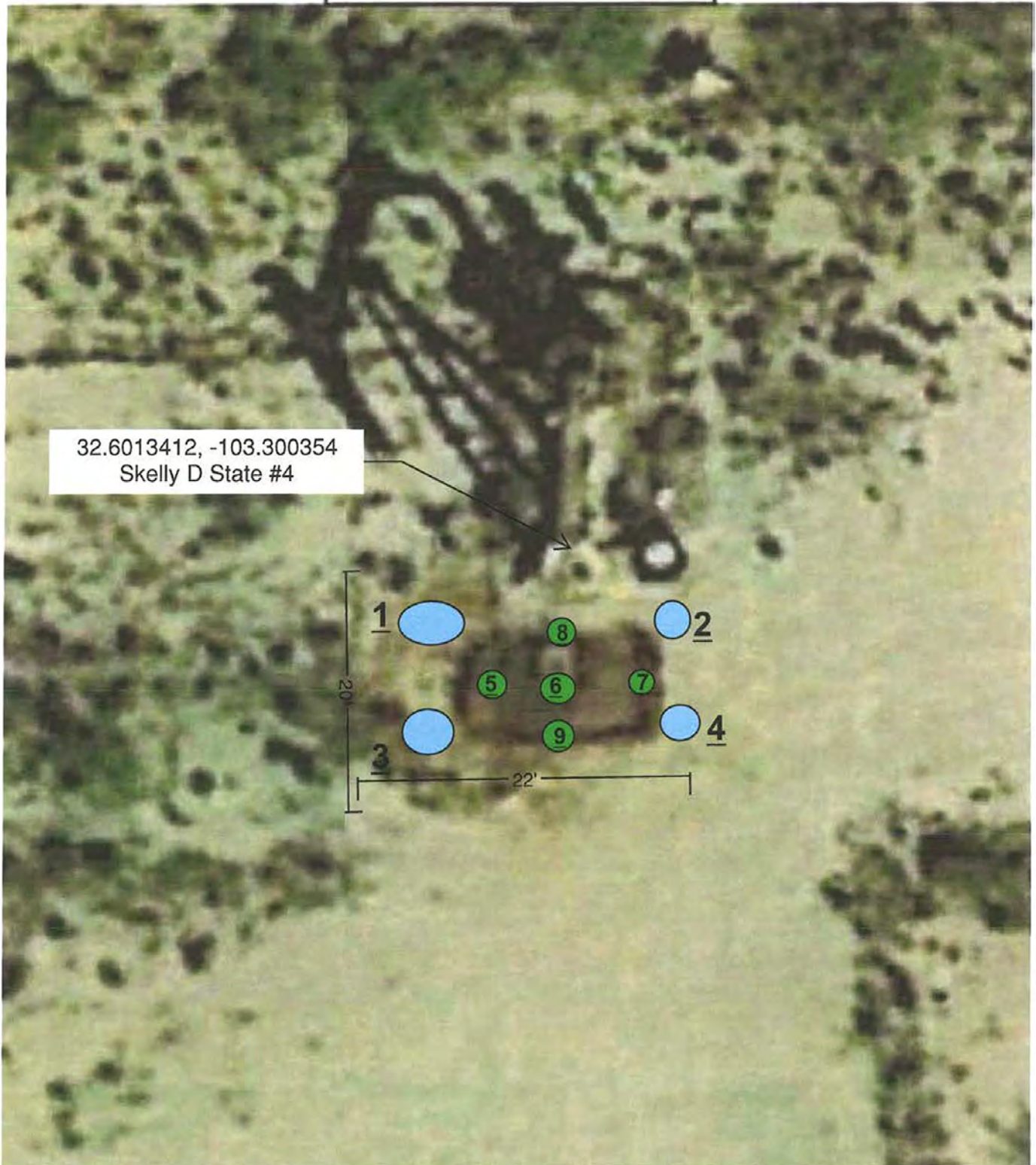


Area of Concern Historic Photo
Skelly D State #4
Momentum Operating Co., Inc.
Lea County, New Mexico
32.6013412, -103.300354 NAD83

Skelly D State #4

Sample Map to be Collected

11/2017



Sample Map
Momentum Operating Co., Inc.
Skelly D State #4
Lea County, New Mexico
32.6013412, -103.30054 NAD 83



Appendix A: Water Surveys

1. OSE
2. USGS
3. Surface Water Map
4. Wetlands Map
5. Fema Flood 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
L 14378 POD10		L	LE	2	4	3	01	20S	36E	658623	3607979	823	45	35	10
L 14378 POD11		L	LE	1	4	3	01	20S	36E	658572	3608047	852	45	40	5
L 14378 POD9		L	LE	2	4	3	01	20S	36E	658602	3607929	861	45	35	10
L 14378 POD8		L	LE	1	4	3	01	20S	36E	658588	3607889	890	35	30	5
L 03814		L	LE	2	2	2	01	20S	36E	659488	3609171*	910	60	40	20
L 03815 APPRO EXP	O	L	LE	2	2	2	01	20S	36E	659488	3609171*	910	60	40	20
L 14378 POD12		L	LE	1	4	3	01	20S	36E	658502	3608034	922	45	35	10
L 03810		L	LE	4	4	1	06	20S	37E	660286	3608580*	944	86	37	49
L 14378 POD7		L	LE	1	4	3	01	20S	36E	658504	3607887	968	45	30	15
L 14378 POD5		L	LE	1	4	3	01	20S	36E	658471	3607965	971	40	30	10
L 14378 POD4		L	LE	1	4	3	01	20S	36E	658443	3608015	984	40	35	5
L 14378 POD6		L	LE	1	4	3	01	20S	36E	658461	3607926	993	45	30	15

Average Depth to Water: **34 feet**
Minimum Depth: **30 feet**
Maximum Depth: **40 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 659395.43

Northing (Y): 3608265.38

Radius: 1000

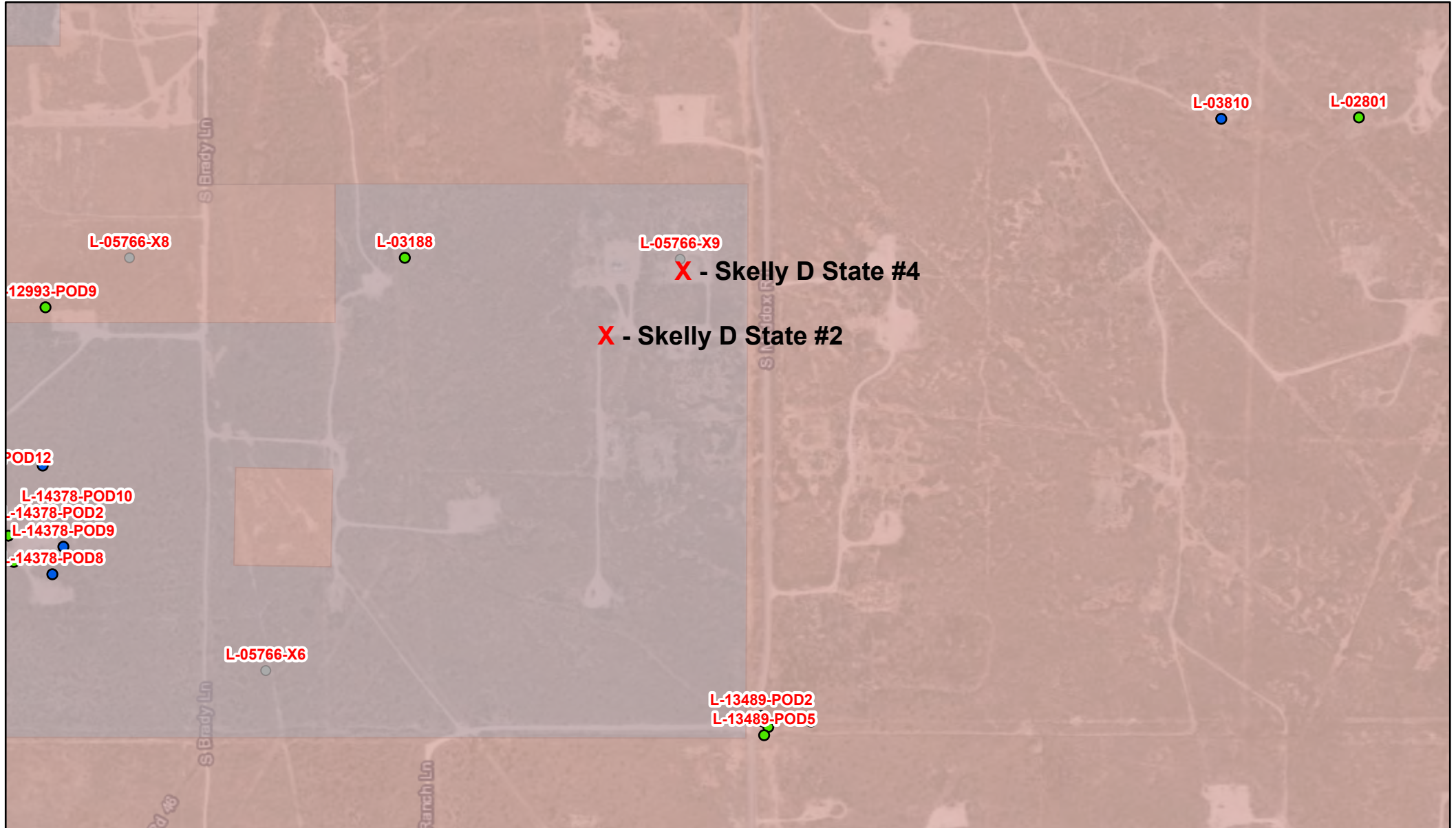
*UTM location was derived from PLSS - see Help

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

7/23/24 12:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

OSE POD Location Map



7/23/2024, 1:48:57 PM

GIS WATERS PODs

- Active
- Pending

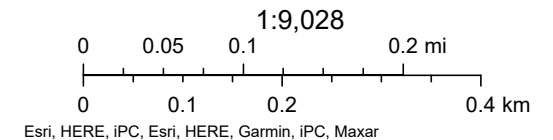
OSE District Boundary

Water Right Regulations

Critical Management Area - Guidelines

Closure Area


- Artesian Planning Area
- New Mexico State Trust Lands
- Subsurface Estate
- Both Estates





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	L 14378 POD10	2	4	3	01	20S	36E	658623	3607979 
x									
Driller License:		1757		Driller Company:		ENVIROTECH DRILLING SERVICES LLC			
Driller Name:		DAVID DRAYBUCK							
Drill Start Date:		10/01/2018		Drill Finish Date:		10/01/2018		Plug Date:	
Log File Date:		01/08/2019		PCW Rev Date:				Source: Shallow	
Pump Type:				Pipe Discharge Size:				Estimated Yield:	
Casing Size:		4.00		Depth Well:		45 feet		Depth Water: 35 feet	
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				35	40	Other/Unknown			
				40	45	Other/Unknown			
x									
Casing Perforations:				Top	Bottom				
				30	45				
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.

7/23/24 12:47 PM

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.

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 323609103175101

Minimum number of levels = 1

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

USGS 323609103175101 20S.37E.06.11312

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°36'09", Longitude 103°17'51" NAD27

Land-surface elevation 3,568 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

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

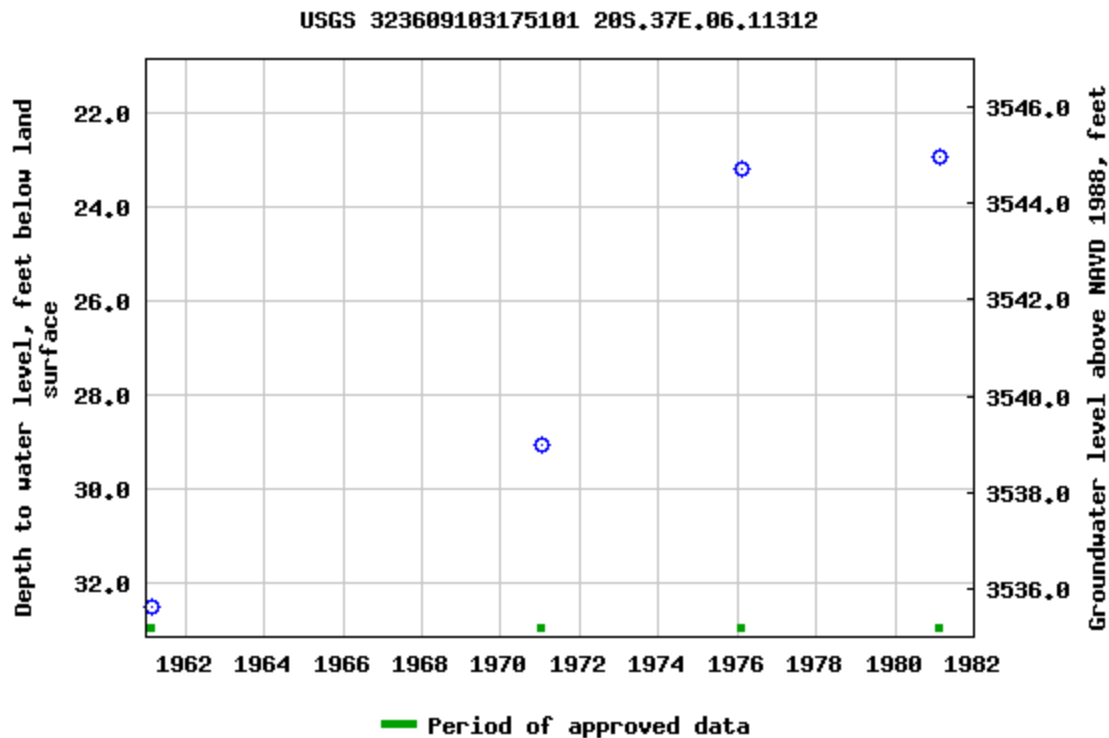
Output formats

[Table of data](#)

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[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2024-07-23 14:44:58 EDT

0.58 0.51 nadww02



National Water Information System: Mapper



Skelly D State #4

Momentum Operating
API #30-025-30248
Lea County, NM
nAPP2401144454
Surface Water Map

Legend

- 7.23 Miles
- Man-Made Pond

Man-Made Pond

Skelly D State #4

Monument

8

322

46

43

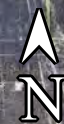
41

43

47

Google Earth

3 mi





Wetlands Map



July 23, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

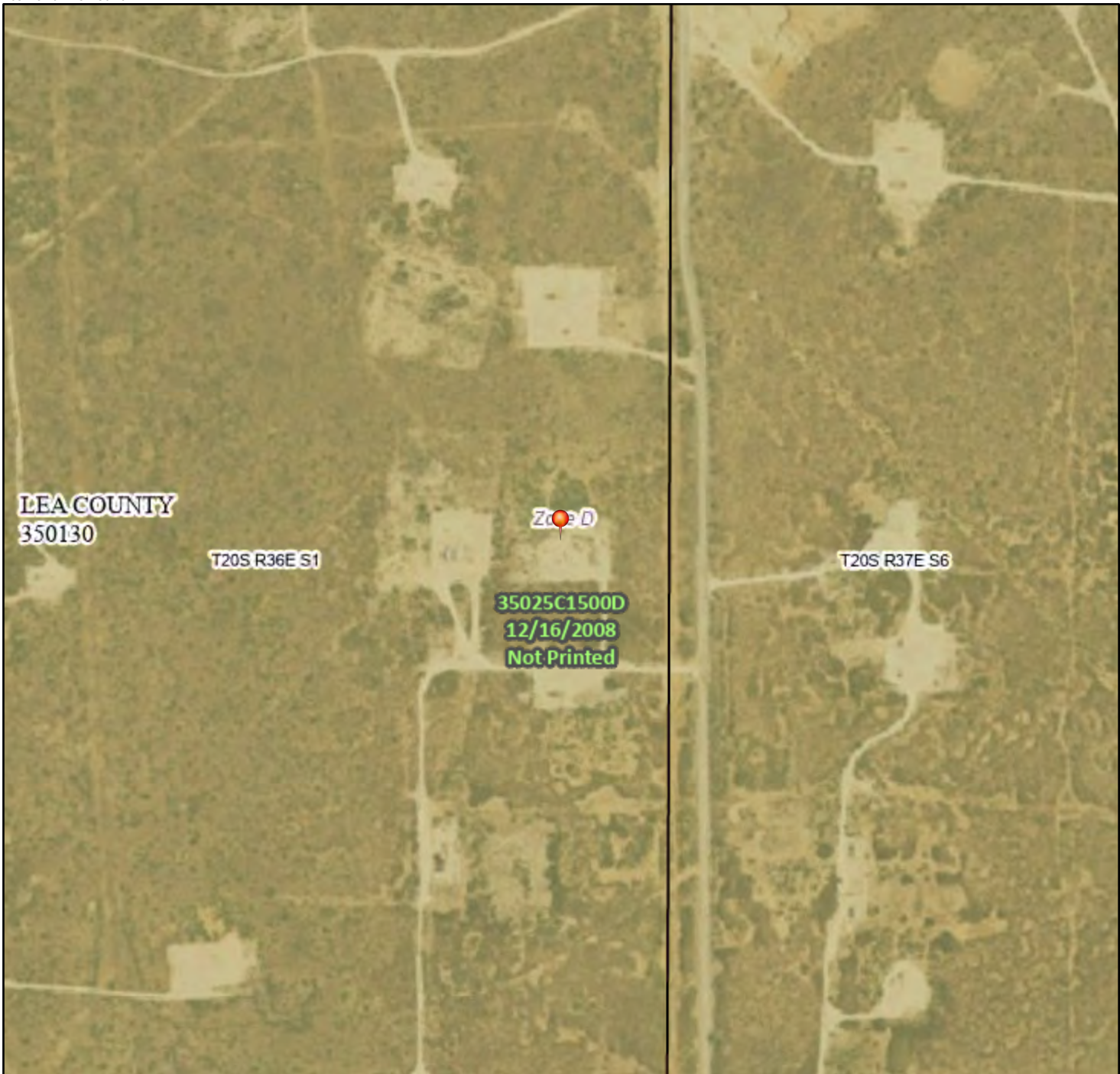
- Lake
- Other
- Riverine

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 Flood Hazard Layer FIRMette



103°18'20"W 32°36'20"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/23/2024 at 2:59 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.



Appendix B:

1. Soil Survey
2. Soil Map
3. Geologic Unit Map

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

Lea County, New Mexico

PY—Pyote soils and Dune land

Map Unit Setting

National map unit symbol: dmqr

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Depressions

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

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)

Map Unit Description: Pyote soils and Dune land---Lea County, New Mexico

Interpretive groups

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

Description of Dune Land**Setting**

Landform: Dunes
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand
C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components**Kermi**

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 2 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

7/23/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.





Map Unit Legend

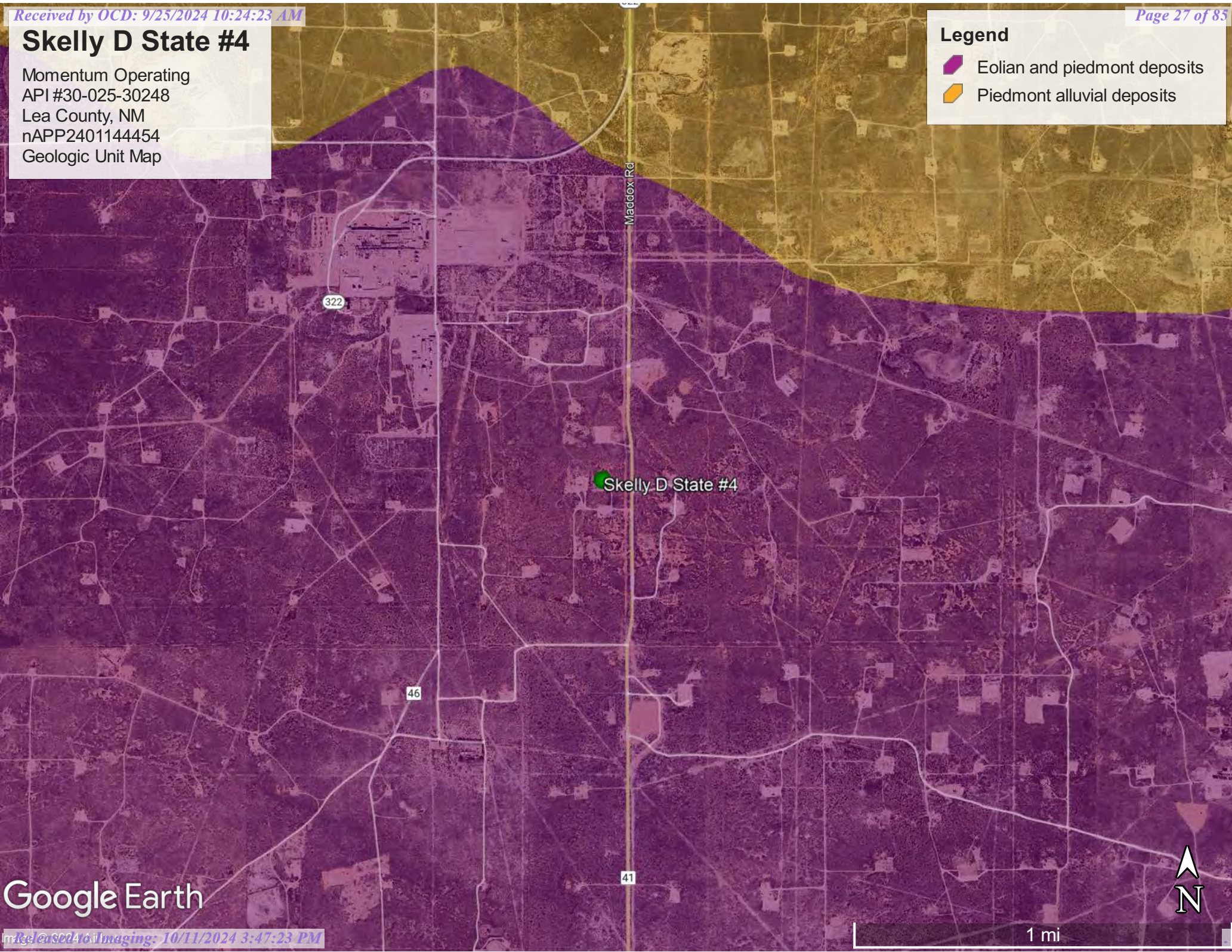
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	0.9	4.6%
PY	Pyote soils and Dune land	17.7	95.4%
Totals for Area of Interest		18.6	100.0%

Skelly D State #4

Momentum Operating
API #30-025-30248
Lea County, NM
nAPP2401144454
Geologic Unit Map

Legend

-  Eolian and piedmont deposits
-  Piedmont alluvial deposits



Google Earth



Appendix C:

1. 48-Hour Notification
2. NMOCD Correspondence

OCD Permitting

Home

Operator Data

Action Status

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	317112	Districts:	Hobbs
Operator:	[196069] MOMENTUM OPERATING CO INC	Counties:	Lea
Description:	MOMENTUM OPERATING CO INC [196069] , Skelly D State #4 , nAPP2401144454		
Status:	APPROVED		
Status Date:	02/23/2024		
References (2):	30-025-30248, nAPP2401144454		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2401144454
Incident Name	NAPP2401144454 SKELLY D STATE #4 @ 30-025-30248
Incident Type	Oil Release
Incident Status	Notification Accepted

Date Release Discovered	10/05/2017
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	420
What is the estimated number of samples that will be gathered	9
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/28/2024
Time sampling will commence	08:30 AM
<div>Warning: Notification can not be less than two business days prior to conducting final sampling.</div>	
Please provide any information necessary for observers to contact samplers	John Smith 575390-2051
Please provide any information necessary for navigation to sampling site	32.6013412, -103.300354

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary:	mbirdwell (2/23/2024), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.
----------	--

[SIGN-IN](#) [HELP](#)

[Searches](#) [Operator Data](#) [Hearing Fee Application](#)

[Go Back](#)

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

[EMNRD Home](#) [OCD Main Page](#) [OCD Rules](#) [Help](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Remediation Closure Request C-141 (C-141-V-CLOSURE) Application

Submission Information

Submission ID:	332947	Districts:	Hobbs
Operator:	[196069] MOMENTUM OPERATING CO INC	Counties:	Lea
Description:	MOMENTUM OPERATING CO INC [196069] , Skelly D State #4 , nAPP2401144454		
Status:	REJECTED		
Status Date:	04/12/2024		
References (2):	30-025-30248, nAPP2401144454		

Forms

Attachments: [Volume Calculation](#), [Water Sources](#), [Scaled Site Map](#), [Field Data](#), [Soil Contaminant](#), [Water Depth](#), [Boring Logs](#), [Photographs](#), [Topo Aerial Maps](#), [Lab Data](#), [Proposed Technique](#), [Estimated Volume](#), [Closure Criteria](#), [Proposed Schedule](#), [Lab Samples OR Liner Integrity](#), [Remediation Activities](#)

Questions

Prerequisites

Incident Operator	[196069] MOMENTUM OPERATING CO INC
Incident Type	Oil Release

Please answer all the questions in this group.

Site Name	Skelly D State #4
Date Release Discovered	10/05/2017
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Normal Operations Valve Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Normal Operations Valve Produced Water Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there <div>additional details</div> for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Less than a BBL of oil and water was released. All liquids have been recovered and removed.

Reasons why this would be considered a submission for a notification of a major release

Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

- The source of the release has been stopped

True
- The impacted area has been secured to protect human health and the environment

True
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices

True
- All free liquids and recoverable materials have been removed and managed appropriately

True
- If all the actions described above have not been undertaken, explain why

Not answered.

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

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

I hereby agree and sign off to the above statement

Name: Megaen Birdwell

Email: megaen@momentumoperating.com

Date: 04/12/2024

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)

Between 26 and 50 (ft.)
- What method was used to determine the depth to ground water

NM OSE iWaters Database Search
- Did this release impact groundwater or surface water

No
- What is the minimum distance, between the closest lateral extents of the release and the following surface areas:
- A continuously flowing watercourse or any other significant watercourse

Greater than 5 (mi.)

Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
---	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
--	-----

Was this release entirely contained within a lined containment area	No
---	----

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

Chloride	(EPA 300.0 or SM4500 Cl B)	80
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	10
GRO+DRO	(EPA SW-846 Method 8015M)	10
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

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

On what estimated date will the remediation commence	10/05/2017
On what date will (or did) the final sampling or liner inspection occur	03/25/2024
On what date will (or was) the remediation complete(d)	05/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	500
What is the estimated volume (in cubic yards) that will be reclaimed	90
What is the estimated surface area (in square feet) that will be remediated	500
What is the estimated volume (in cubic yards) that will be remediated	90

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	J&L LANDFARM [fEEM0112339187]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement

Name: Megaen Birdwell
Email: megaen@momentumoperating.com
Date: 04/12/2024

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

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

19.15.29.12 NMAC	
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	25

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	500
What was the total volume (cubic yards) remediated	90
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	500
What was the total volume (in cubic yards) reclaimed	90
Summarize any additional remediation activities not included by answers (above)	The polish rod leak was repaired. All contaminated soil was excavated and removed to a facility. Samples were taken. Fresh clean soil was brought in and contoured to prevent ground erosion and pooling of water.

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

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

I hereby agree and sign off to the above statement

Name: Megaen Birdwell
Email: megaen@momentumoperating.com
Date: 04/12/2024

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary: *scwells (4/12/2024)*, This application has been rejected because the C-141 is incomplete. The submitted application indicates a conflict between the questions answered and the attachments that have been submitted. For example, the answer “Yes” was selected to the question “Requesting a remediation closure approval with this submission”; however, your attachments indicate that the intent is to request a remediation plan approval. Therefore, next time select "Yes" to “Requesting remediation plan approval” but “No” to “Requesting a remediation closure approval.” Please review the Dec 1, 2023, Public Notice titled Implementation of Digital C-141 and New Incident Statuses found on the OCD website. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstance.

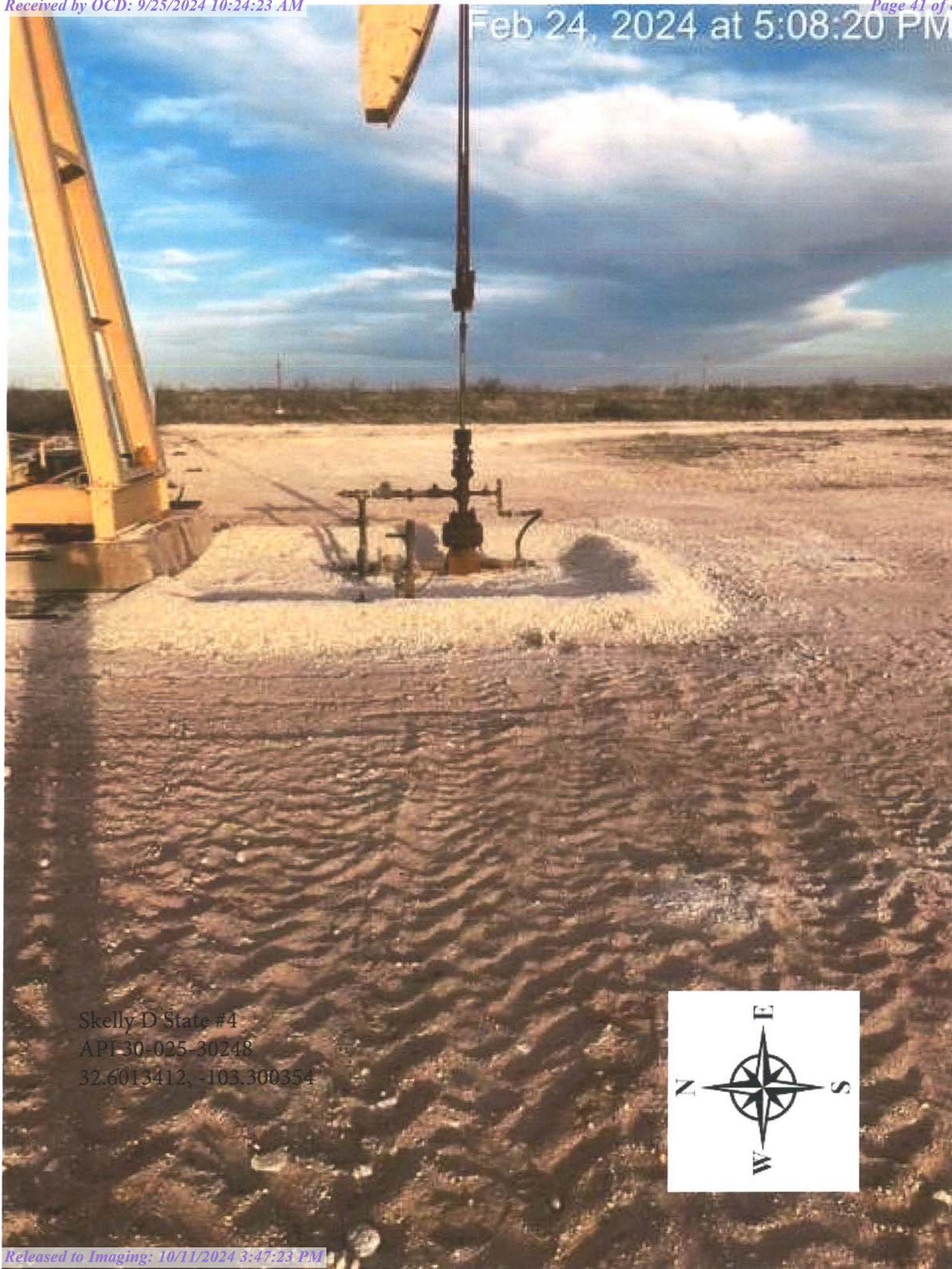
Go Back



Appendix D:

1. Photographic Documentation

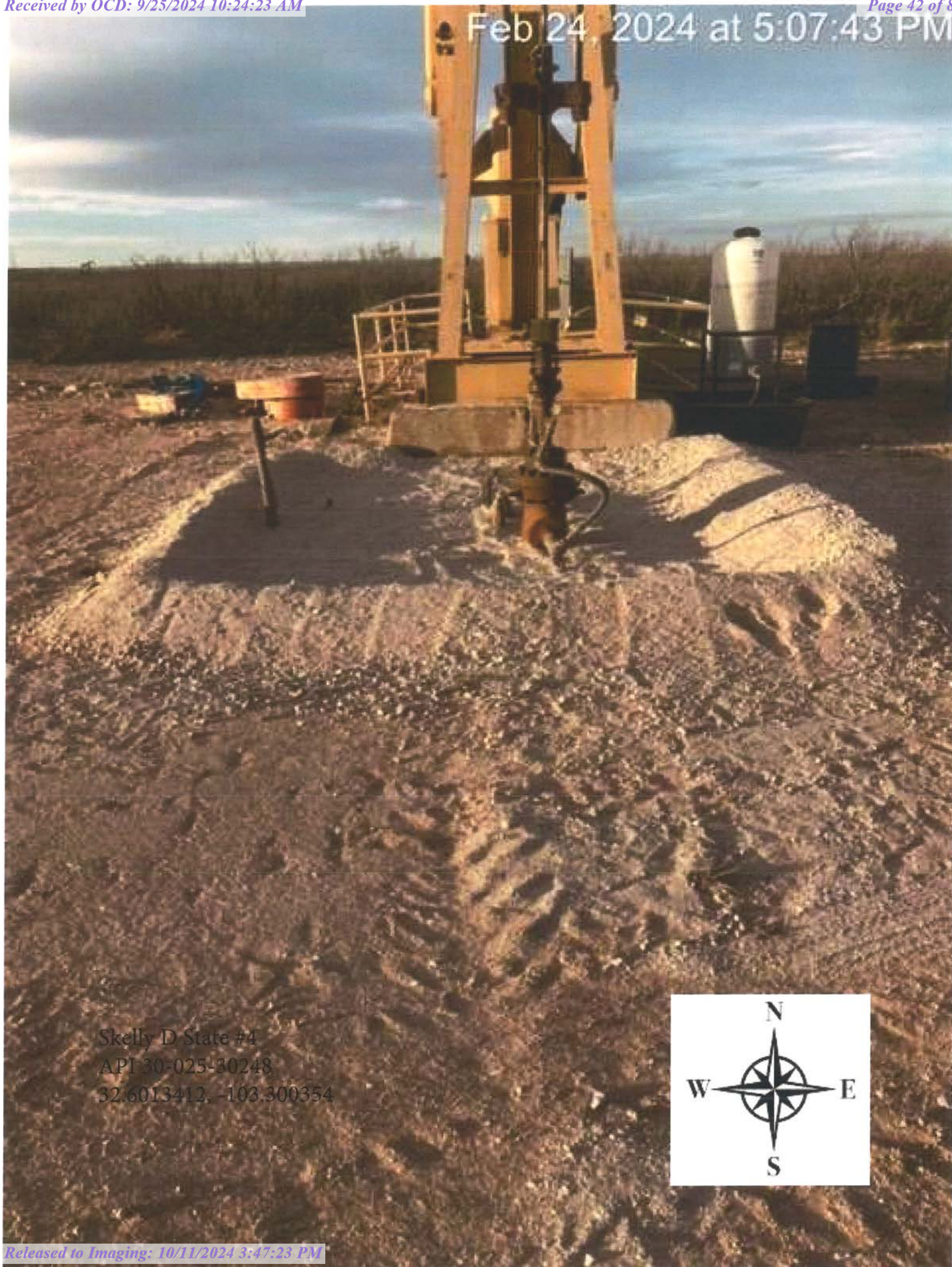
Feb 24, 2024 at 5:08:20 PM



Skelly D State #4
API 30-025-30248
32.6013412, -103.300354



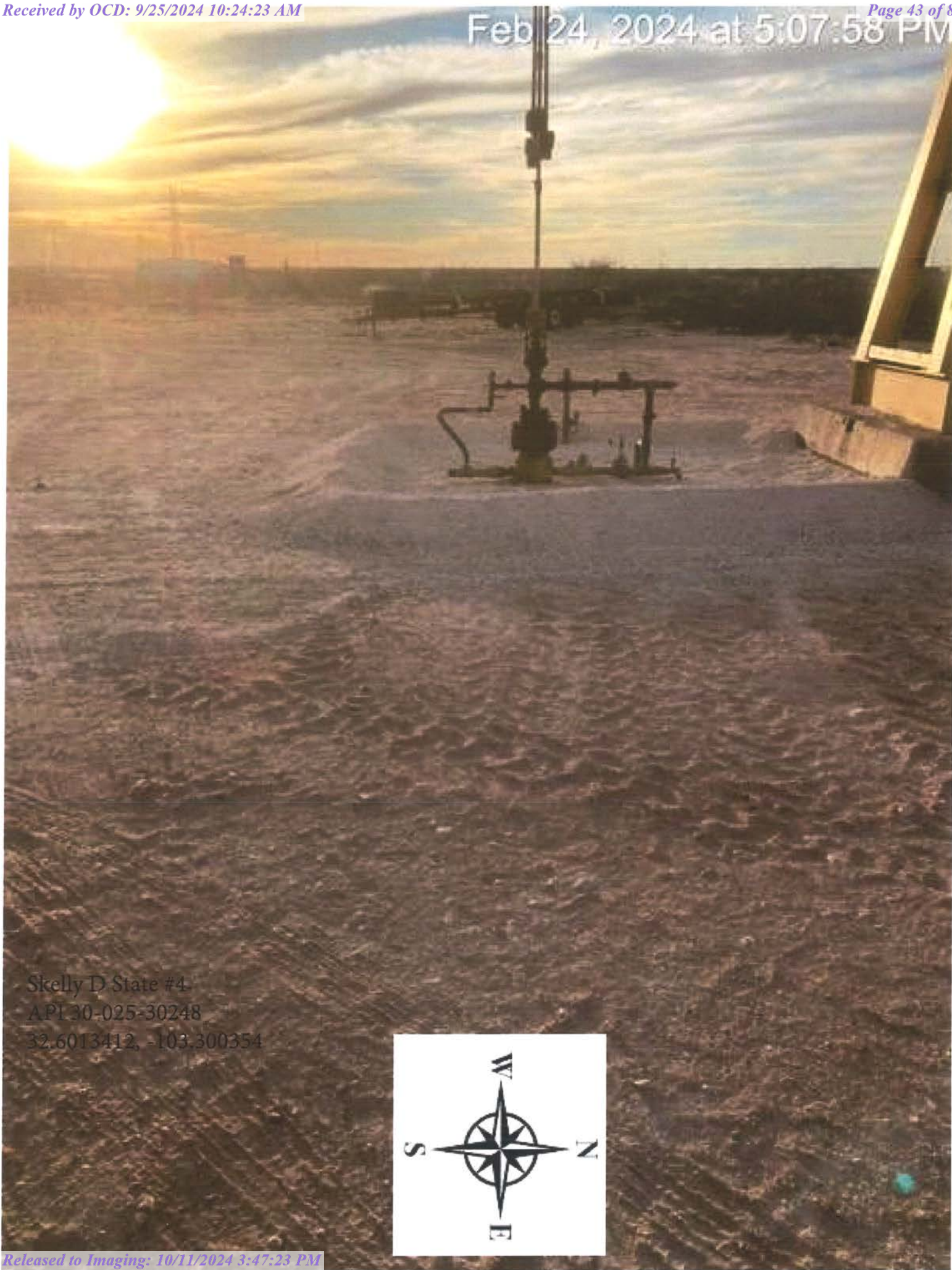
Feb 24, 2024 at 5:07:43 PM



Skelly D State #4
API 30-025-30248
32.6013412, -103.300354



Feb 24, 2024 at 5:07:58 PM



Skelly D State #4
API 30-025-30248
32.6013412, -103.300354





Picture 3.25.24
Momentum Operating Co., Inc.
Skelly D State #4
Lea County, New Mexico
32.6013412, -103.300354 NAD83



Pictures 2.24.24
Momentum Operating Co., Inc.
Skelly D State #4
Lea County, New Mexico
32.6013412, -103.300354 NAD83



Appendix E:

1. Laboratory Reports



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

October 16, 2023

JOHN SMITH

MOMENTUM OPERATING

P. O. BOX 2439

ALBANY, TX 76430

RE: SKELLY D #4

Enclosed are the results of analyses for samples received by the laboratory on 10/11/23 9:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 10/11/2023
Reported: 10/16/2023
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 10/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: 1 (H235525-01)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.01	101	2.00	6.42	
Toluene*	<0.050	0.050	10/12/2023	ND	1.97	98.5	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.09	104	2.00	3.94	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	6.27	104	6.00	3.54	
Total BTEx	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2023	ND	221	111	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/11/2023	ND	243	121	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	10/11/2023	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 10/11/2023
Reported: 10/16/2023
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 10/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: 2 (H235525-02)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.01	101	2.00	6.42	
Toluene*	<0.050	0.050	10/12/2023	ND	1.97	98.5	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.09	104	2.00	3.94	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	6.27	104	6.00	3.54	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	221	111	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	243	121	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 10/11/2023
Reported: 10/16/2023
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 10/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: 3 (H235525-03)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.01	101	2.00	6.42	
Toluene*	<0.050	0.050	10/12/2023	ND	1.97	98.5	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.09	104	2.00	3.94	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	6.27	104	6.00	3.54	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2023	ND	221	111	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/11/2023	ND	243	121	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	10/11/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 10/11/2023
Reported: 10/16/2023
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 10/10/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: 4 (H235525-04)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.01	101	2.00	6.42	
Toluene*	<0.050	0.050	10/12/2023	ND	1.97	98.5	2.00	4.73	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.09	104	2.00	3.94	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	6.27	104	6.00	3.54	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2023	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2023	ND	221	111	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/11/2023	ND	243	121	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	10/11/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

Company Name: <u>Momentum Operating</u> Project Manager: <u>John Smith</u> Address: City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>SKelly D #4</u> Project Location: <u>New Mexico</u> Sampler Name: <u>John Smith</u>				BILL TO P.O. #: Company: <u>Momentum</u> Attn: <u>John Smith</u> Address: City: State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST															
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP # CONTAINERS		MATRIX		PRESERV.		SAMPLING											
H035529		1 2 3 4		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		ACID/BASE ICE / COOL OTHER		DATE		TIME		CL		TPH		BTEX					
								10-10-23		10-10-23		X		X		X					
								10-10-23		10-10-23											
								10-10-23		10-10-23											

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Relinquished By: <u>John Smith</u> Date: <u>10-11-23</u> Time: <u>10:04</u>		Received By: <u>S Rodriguez</u> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <u>Shelly@MomentumOperating.com</u>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>-7.1</u> Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input type="checkbox"/> No <input type="checkbox"/> No	
CHECKED BY: <u>SK</u> (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	
Thermometer ID #140 Correction Factor 0°C				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

February 06, 2024

JOHN SMITH

MOMENTUM ENERGY CORPORATION

PO BOX 3398

MIDLAND, TX 79702

RE: SKELLY D STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 1 (H240482-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 2 (H240482-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 3 (H240482-03)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 4 (H240482-04)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 5 (H240482-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/02/2024	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 6 (H240482-06)

BTX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM ENERGY CORPORATION
JOHN SMITH
PO BOX 3398
MIDLAND TX, 79702
Fax To: NONE

Received: 02/01/2024
Reported: 02/06/2024
Project Name: SKELLY D STATE #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/30/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 7 (H240482-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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*= Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 8 (H240482-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM ENERGY CORPORATION
 JOHN SMITH
 PO BOX 3398
 MIDLAND TX, 79702
 Fax To: NONE

Received: 02/01/2024
 Reported: 02/06/2024
 Project Name: SKELLY D STATE #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 - SURFACE SAMPLE # 9 (H240482-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	1.96	98.1	2.00	12.2	
Toluene*	<0.050	0.050	02/01/2024	ND	2.06	103	2.00	12.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.01	101	2.00	12.3	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.19	103	6.00	12.3	
Total BTEX	<0.300	0.300	02/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/02/2024	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	193	96.7	200	1.46	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	202	101	200	0.163	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

Company Name: Momentum Operating Project Manager: John Smith Address: P.O. Box 2439 City: Albany State: Tx Zip: 76430 Phone #: 325-762-3331 Fax #: Project #: Project Owner: Project Name: Project Location: Skelly D State #14 Sampler Name: John Smith		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST																	
FOR LAB USE ONLY Lab I.D. H240482 Sample I.D. Skelly D #4 Surface Sample #1 1 2 3 4 5 6 7 8 9 10		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL OTHER:		SAMPLING DATE 1-30-24 TIME		CL TPH BTEX													

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Relinquished By: Date: 2-24-24 Time: 1050 Relinquished By: John Smith Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Received By: Date: 2-24-24 Time: 1050 Received By: Skodriguey Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) SK		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: Shelly@MomentumOperating.Com REMARKS:	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor 0°C		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C			

FORM-000 R 3-4 07/11/25

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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February 29, 2024

JOHN SMITH

MOMENTUM OPERATING

P. O. BOX 2439

ALBANY, TX 76430

RE: SKELLY D #4

Enclosed are the results of analyses for samples received by the laboratory on 02/23/24 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celest D. Keene". The signature is written in a cursive, flowing style.

Celest D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 1 (H240908-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.15	
Toluene*	<0.050	0.050	02/27/2024	ND	2.08	104	2.00	2.90	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.04	102	2.00	2.66	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.95	99.2	6.00	2.60	
Total BTX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.3 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 2 (H240908-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.15	
Toluene*	<0.050	0.050	02/27/2024	ND	2.08	104	2.00	2.90	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.04	102	2.00	2.66	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.95	99.2	6.00	2.60	
Total BTEx	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/27/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 3 (H240908-03)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.15	
Toluene*	<0.050	0.050	02/27/2024	ND	2.08	104	2.00	2.90	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.04	102	2.00	2.66	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.95	99.2	6.00	2.60	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.4 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 62.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 4 (H240908-04)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.15	
Toluene*	<0.050	0.050	02/27/2024	ND	2.08	104	2.00	2.90	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.04	102	2.00	2.66	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	5.95	99.2	6.00	2.60	
Total BTEx	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 12



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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 5 (H240908-05)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.13	107	2.00	3.51	
Toluene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.82	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.02	100	6.00	4.12	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 94.4 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 6 (H240908-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.13	107	2.00	3.51	
Toluene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.82	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.02	100	6.00	4.12	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 7 (H240908-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.13	107	2.00	3.51	
Toluene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.82	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.02	100	6.00	4.12	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/26/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/26/2024	ND					

Surrogate: 1-Chlorooctane 56.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.9 % 49.1-148

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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 8 (H240908-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.13	107	2.00	3.51	
Toluene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.82	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.02	100	6.00	4.12	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 59.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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Analytical Results For:

MOMENTUM OPERATING
JOHN SMITH
P. O. BOX 2439
ALBANY TX, 76430
Fax To: NONE

Received: 02/23/2024
Reported: 02/29/2024
Project Name: SKELLY D #4
Project Number: NONE GIVEN
Project Location: NEW MEXICO

Sampling Date: 02/23/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SKELLY D #4 SAMPLE # 9 (H240908-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2024	ND	2.13	107	2.00	3.51	
Toluene*	<0.050	0.050	02/27/2024	ND	2.10	105	2.00	3.82	
Ethylbenzene*	<0.050	0.050	02/27/2024	ND	2.05	103	2.00	4.08	
Total Xylenes*	<0.150	0.150	02/27/2024	ND	6.02	100	6.00	4.12	
Total BTEX	<0.300	0.300	02/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	212	106	200	0.797	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	224	112	200	3.50	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 57.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.1 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

[illegible]

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

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

QUESTIONS

Action 385757

QUESTIONS

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID: 196069
	Action Number: 385757
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2401144454
Incident Name	NAPP2401144454 SKELLY D STATE #4 @ 30-025-30248
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-30248] SKELLY D STATE #004

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SKELLY D STATE #4
Date Release Discovered	10/05/2017
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Normal Operations Valve Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Normal Operations Valve Produced Water Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Less than a BBL of oil and water was released. All liquids have been recovered and removed.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:
	196069
	Action Number:
	385757
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Megaen Birdwell Email: megaen@momentumoperating.com Date: 09/25/2024
--	--

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:	196069
	Action Number:	385757
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	240
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/05/2017
On what date will (or did) the final sampling or liner inspection occur	03/27/2024
On what date will (or was) the remediation complete(d)	03/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1500
What is the estimated volume (in cubic yards) that will be remediated	90

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

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

District I

1625 N. French Dr., Hobbs, NM 88240
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District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS, Page 4

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:	196069
	Action Number:	385757
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	J&L LANDFARM [FEEM0112339187]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Megaen Birdwell Email: megaen@momentumoperating.com Date: 09/25/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:	196069
	Action Number:	385757
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:	196069
	Action Number:	385757
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	326003
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/25/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	25

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1500
What was the total volume (cubic yards) remediated	90
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	all stained soil was dug and removed to a certified facility. Replaced with certified weed free soil, and graded to prevent water pooling or water erosion at the site.

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

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

I hereby agree and sign off to the above statement	Name: Megaen Birdwell Email: megaen@momentumoperating.com Date: 09/25/2024
--	--

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QUESTIONS, Page 7

Action 385757

QUESTIONS (continued)

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID: 196069
	Action Number: 385757
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 385757

CONDITIONS

Operator: MOMENTUM OPERATING CO INC P. O. Box 2439 Albany, TX 76430	OGRID:
	196069
	Action Number:
	385757
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/11/2024