PARAGON ENVIRONMENTAL

December 20, 2022

NMOCD District 2
Mr. Mike Bratcher
Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Pearsall Federal SWD 1
API No. 30-025-40712
GPS: Latitude 32.8065033 Longitude -103.7759476
UL "E", Sec. 28, T17S, R32E
Eddy County, NM
NMOCD Ref. No. NAPP2218026857

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment and remediation activities for the Release Site known as the Pearsall Federal SWD 1 (Pearsall). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	**Volume of Release:**	20 bbls
		Volume Recovered:	17 bbls
Source of Release:	Flow Line - Injection	**Date of Release:**	06/27/22
Was Immediate Notice Given?	Yes	**If, Yes, to Whom?**	Mike Bratcher, NMOCD
Was a Watercourse Reached?	No	**If Yes, Volume Impacting Watercourse:**	N/A
Surface Owner:	**Federal**	**Mineral Owner:**	
The injection line developed a corrosion issue that resulted in the failure of the flowline.			

Topographical and Aerial Maps are provided in Figures #3 and #5. A copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) can be found in Appendix C.

REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of fluids or gases are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment/characterization, remediation, closure, variance, and enforcement procedures. Table I of 19.15.29.12 NMAC determines the closure criteria for soils impacted by a release based on depth to groundwater and the following characteristics:

Site Characteristics	
Approximate Depth to Groundwater	**124'**
Within 330 ft. of any continuously flowing or significant watercourse?	**NO**
Within 200 ft. of any lakebed, sinkhole, or playa lake?	**NO**
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	**NO**
Within 500 ft. of a spring, or private, domestic fresh water well?	**NO**
Within 1000 ft. of any fresh water well?	**NO**
Within the incorporated municipal boundaries or within a municipal well field?	**NO**
Within 300 ft. of a wetland?	**NO**
Within the area overlying a subsurface mine?	**NO**
Within an unstable area such as Karst?	**NO**
Within a 100-year floodplain?	**NO**

A search of the groundwater database maintained by the New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average groundwater depth within one (1) Mile radius of the Release Site and identify any registered water wells within ½ Mile of the Release Site. The data initially found on the State Engineers website showed that there was water at a depth of 124' within a ½ mile radius. However, because the spill happened off the pad, it was cleaned based on the strictest criteria.

Depth to groundwater information is provided in Appendix A.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation- and is made up of Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayed 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 Maljamar and Paloma fine sands, with 0 to 3 percent slopes, according to the United States Department of Agriculture Natural Resources Conservation Service. The drainage courses in this area are well-drained. There is NOT a high potential for karst geology to be present around the Pearsall (Figure #3).

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #4.

TABLE I CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
	Constituent	**Method**	**Limit**
≤50 Feet	Chloride	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

INITIAL SITE ASSESSMENT & SOIL SAMPLING EVENT

On July 11, 2022, Paragon conducted an initial site assessment. During the initial site assessment, we obtained samples in the open pasture area along the spill path. The spill path measured approximately 85 feet long by 10 feet wide. Five (5) soil samples were collected in these areas in an effort to determine the vertical extent of soil impact. These samples were collected in accordance with NMAC 19.15.29 and submitted to an approved laboratory for analysis. A table summarizing laboratory analytical results from soil samples collected during the above-stated activities is provided below:

7-11-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 7-11-22		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria 600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6"	ND	ND	ND	ND	ND	ND	2400
	1'	ND	ND	ND	ND	ND	ND	192
S-2	0-6	ND	ND	ND	ND	ND	ND	5680
	1'	ND	ND	ND	ND	ND	ND	5860
	2'	–	–	–	–	–	–	6400
	3'	–	–	–	–	–	–	5360
	4'	–	–	–	–	–	–	3080
S-3	0-6"	ND	ND	ND	49.7	ND	49.7	3040
	1'	ND	ND	ND	ND	ND	ND	4960
	2'	–	–	–	–	–	–	10200
	3'	–	–	–	–	–	–	12700
	4'	–	–	–	–	–	–	5120
S-4	0-6"	ND	ND	ND	ND	ND	ND	144
	1'	ND	ND	ND	ND	ND	ND	1440
	2'	–	–	–	–	–	–	2720
	3'	–	–	–	–	–	–	5200
	4'	–	–	–	–	–	–	15100
S-5	0-6"	ND	ND	ND	ND	ND	ND	16
	1'	ND	ND	ND	ND	ND	ND	48

ND-Analyte Not Detected

All Laboratory analytical reports are provided in Appendix E. A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On August 4, 2022, Paragon mobilized personnel and heavy equipment to conduct remedial activities. Based on the analytical results, site characteristics, and field observations made during the site assessment, the following remedial activities were undertaken to advance the Release Site toward an NMOCD-approved closure.

- S-1 was excavated to a depth of 1-foot BGS.
- S-2 through S-4 was excavated to a depth of 5-feet BGS.
- In the area of S-5, we excavated 6 inches to remove the staining. The initial sampling for this area proved to be below the closure criteria.

All excavated soils were temporarily stockpiled on-site atop a poly liner during the project. Once these areas were excavated, we obtained confirmation bottom and sidewall samples. We utilized composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this event are in the following data table:

8-24-22 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC								
Sample Date 8-24-22		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria ≤100 mg/kg	Closure Criteria ≤600 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1 BOTTOM	1'	ND	ND	ND	ND	ND	ND	ND
SW E-1		ND	ND	ND	ND	ND	ND	48
SW S-1		ND	ND	ND	ND	ND	ND	16
SW W-1		ND	ND	ND	ND	ND	ND	ND
S-2 BOTTOM	5'	ND	ND	ND	ND	ND	ND	ND
SW W-2		ND	ND	ND	ND	ND	ND	ND
SW E-2		ND	ND	ND	ND	ND	ND	48
S-3 BOTTOM	5'	ND	ND	ND	ND	ND	ND	32
SW W-3		ND	ND	ND	ND	ND	ND	16
SW E-3		ND	ND	ND	ND	ND	ND	16
S-4 BOTTOM	5'	ND	ND	ND	ND	ND	ND	16
SW W-4		ND	ND	ND	ND	ND	ND	32
SW E-4		ND	ND	ND	ND	ND	ND	32

ND- Analyte Not Detected

The laboratory analytical results confirmed that the soil sample concentrations were below NMOCD Closure Criteria. We then began to transport the contaminated material to Lea Land, an NMOCD-approved waste disposal facility. The excavated areas were backfilled utilizing the surrounding sand dunes to keep the area's native soils intact. The affected area was then contoured and machine compacted to match the surrounding grade.

CLOSURE REQUEST

After careful review, Paragon requests that this incident, NAPP2218026857, be closed. SPUR has complied with the applicable closure requirements outlined in rule 19.15.19.12 NMAC.

If you have any questions or need additional information, please get in touch with Chris Jones by phone at (575)631-6977 or email at chris@paragonenvironmental.net.

Respectfully,

Chris Jones
Environmental Professional
Paragon Environmental, LLC

Attachments

Figures:
1- Site Map
2- Confirmation Sample Map
3- Topographic Map
4- Karst Map
5- Aerial Map

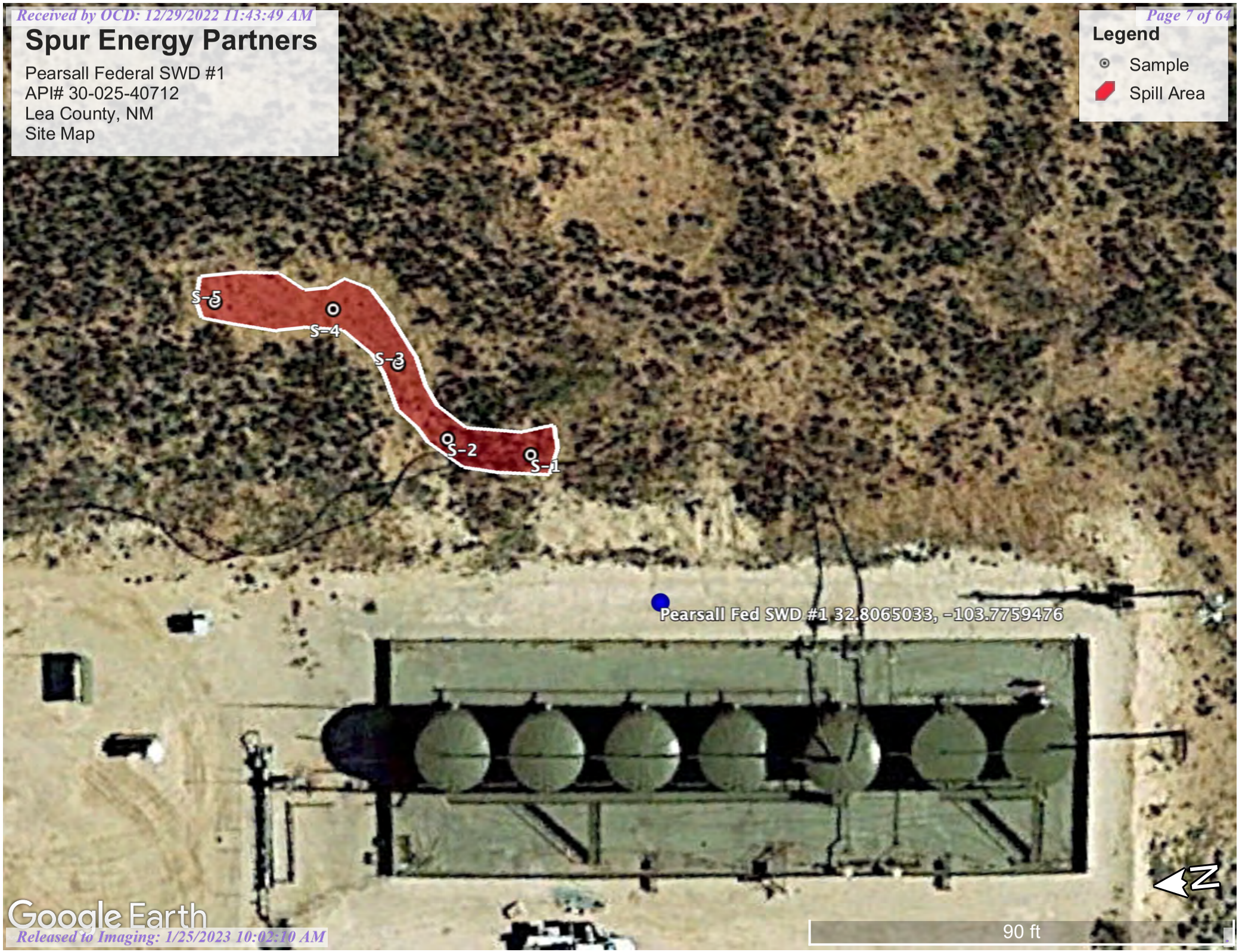
Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and FEMA Flood Map
Appendix C – C-141
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Figures:

1-Site Map
2- Confirmation Sample Map
3- Topo Map
4- Karst Map
5- Aerial Map

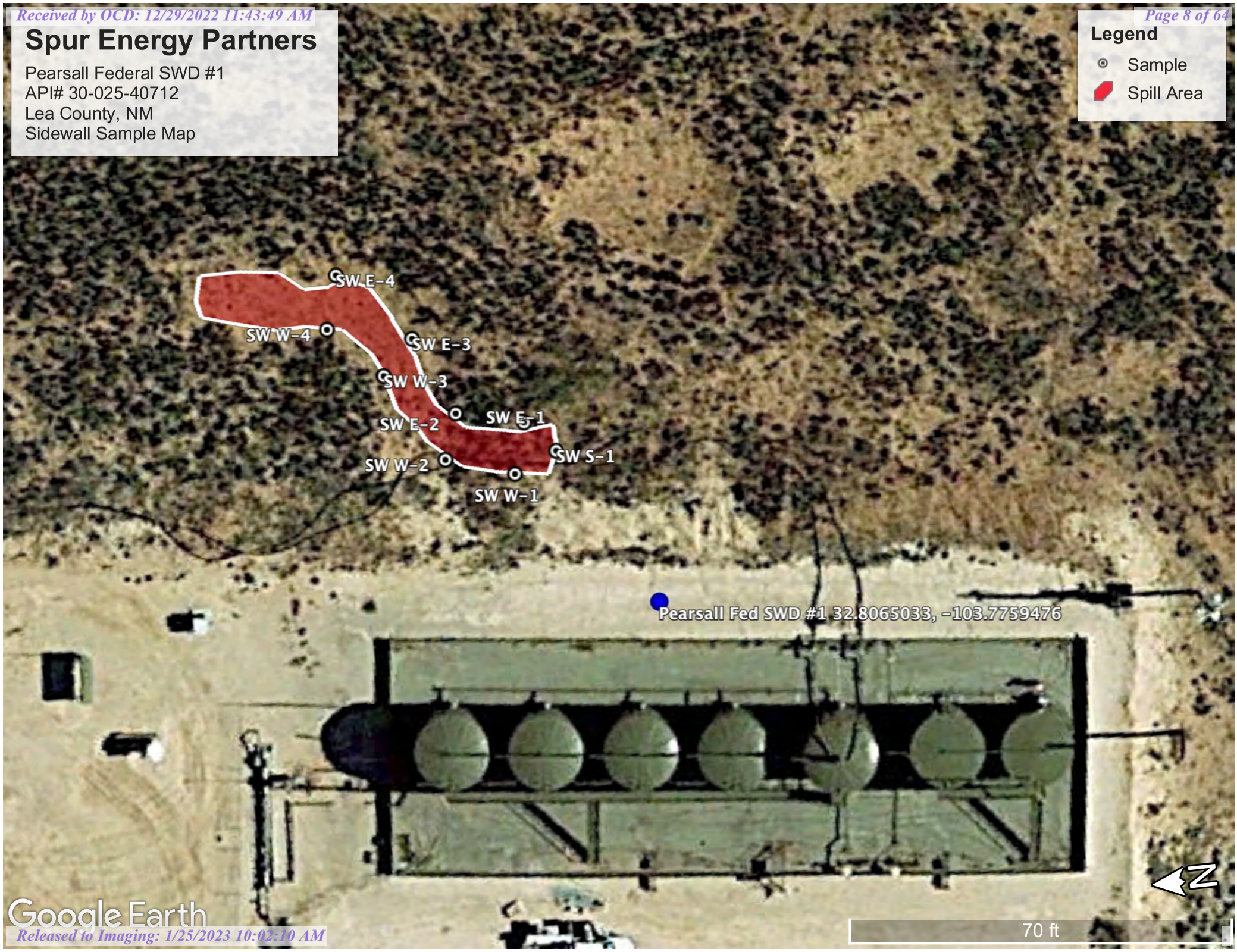
Spur Energy Partners

Pearsall Federal SWD #1
API# 30-025-40712
Lea County, NM
Site Map



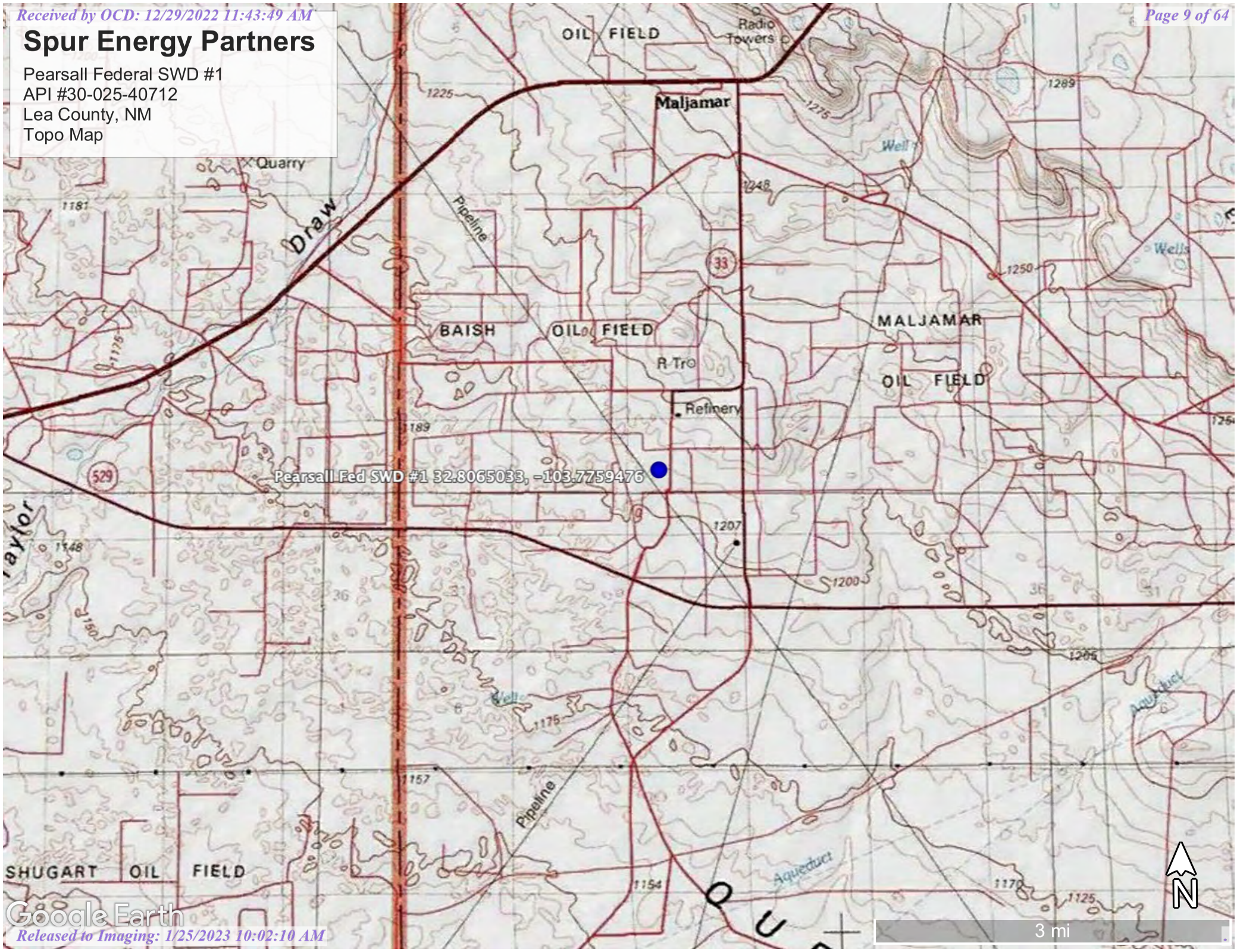
Spur Energy Partners

Pearsall Federal SWD #1
API# 30-025-40712
Lea County, NM
Sidewall Sample Map



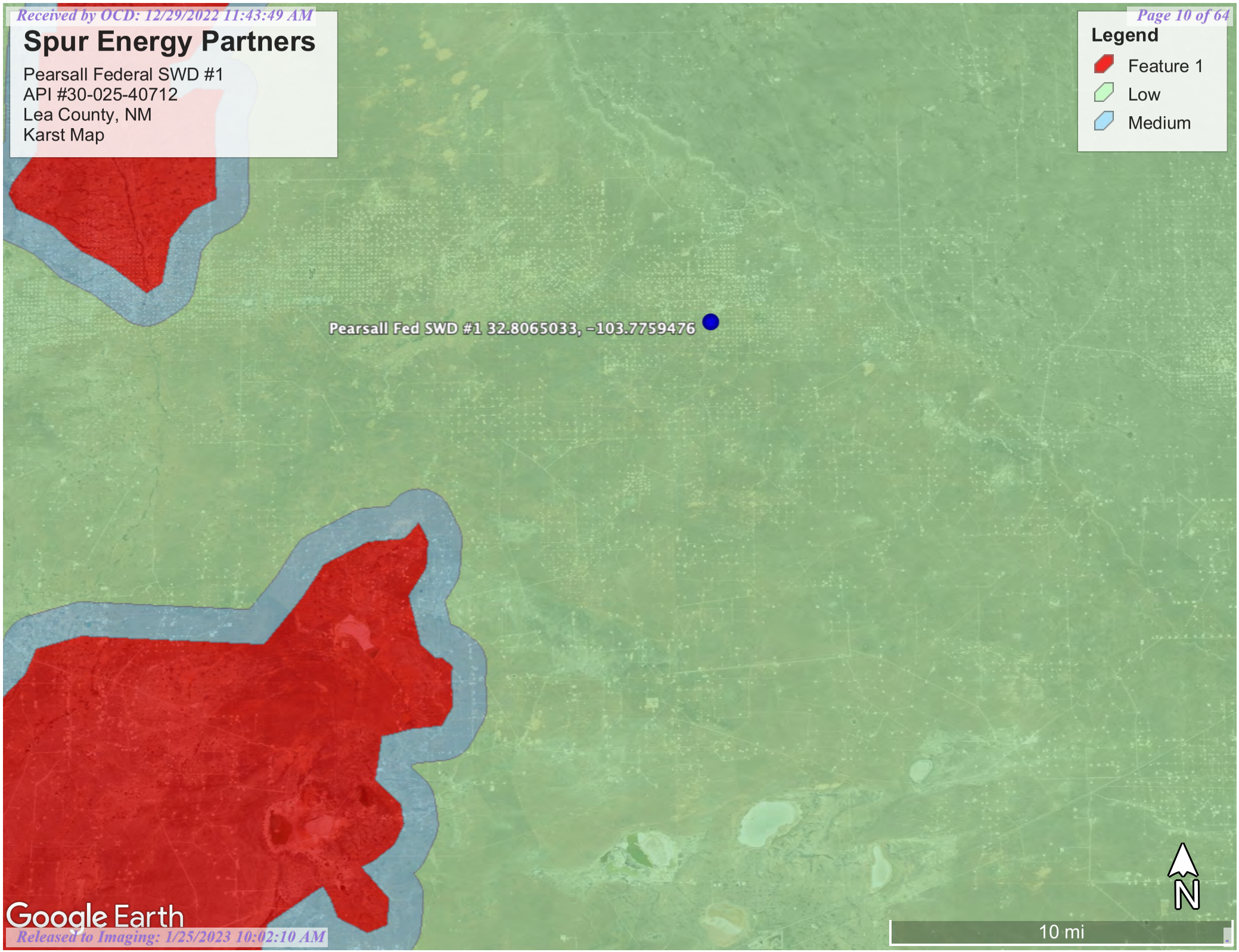
Spur Energy Partners

Pearsall Federal SWD #1
API #30-025-40712
Lea County, NM
Topo Map



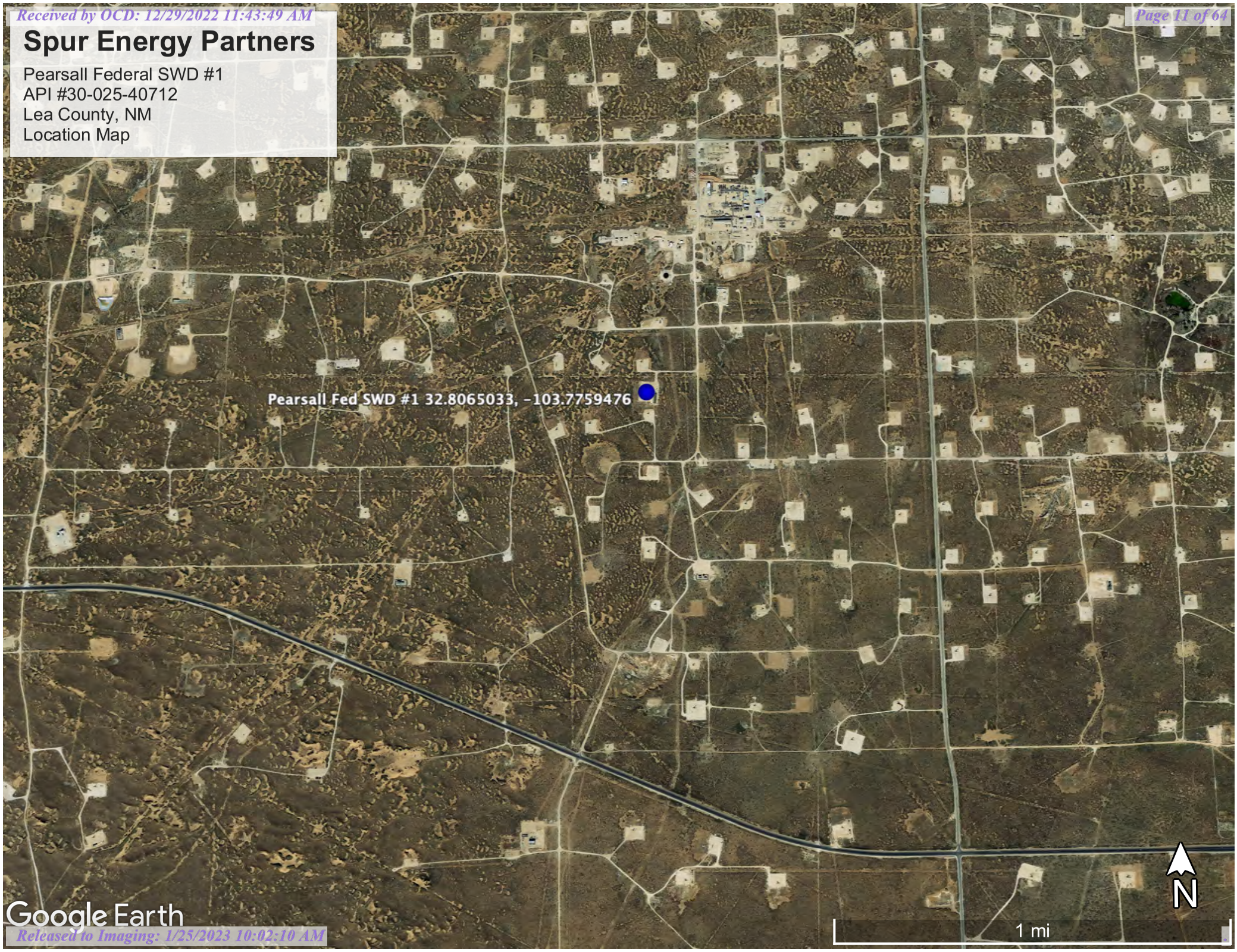
Spur Energy Partners

Pearsall Federal SWD #1
API #30-025-40712
Lea County, NM
Karst Map



Spur Energy Partners

Pearsall Federal SWD #1
API #30-025-40712
Lea County, NM
Location Map



Appendix A
Referenced Water Data:

New Mexico State of Engineers Office

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	Depth Well	Depth Water	Water Column
RA 12721 POD1		RA	LE	3	2	3	28	17S	32E	614645	3630141	360	125		
RA 12721 POD2		RA	LE	1	1	4	28	17S	32E	615055	3630407	465	124	75	49
RA 12020 POD1		RA	LE	2	2	1	28	17S	32E	614828	3630954	509	120	81	39
RA 10175		RA	LE		2	1	28	17S	32E	614814	3631005*	549	158		
RA 12522 POD2		RA	LE	2	2	1	28	17S	32E	614949	3631098	694	100		
RA 12522 POD3		RA	LE	4	4	3	28	17S	32E	614980	3631093	706	100		
RA 12522 POD1		RA	LE	3	3	4	21	17S	32E	614941	3631122	710	100		
RA 12042 POD1		RA	LE	2	2	1	28	17S	32E	614891	3631181	741	400		
RA 12020 POD3		RA	LE	2	1	2	28	17S	32E	615152	3631019	759	112	83	29
RA 12521 POD1		RA	LE	3	3	4	21	17S	32E	615127	3631271	935	105	92	13
RA 12721 POD3		RA	LE	2	3	4	28	17S	32E	615417	3629979	968	115		

Average Depth to Water: **82 feet**

Minimum Depth: **75 feet**

Maximum Depth: **92 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 614599.323 **Northing (Y):** 3630498.923 **Radius:** 1000

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

6/21/22 10:42 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
NA	RA 12721 POD2	1	1	4	28	17S	32E	615055	3630407

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: JOHN W WHITE

Drill Start Date: 04/18/2019 **Drill Finish Date:** 04/19/2019 **Plug Date:**

Log File Date: 05/15/2019 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 0 GPM

Casing Size: 2.00 **Depth Well:** 124 feet **Depth Water:** 75 feet

Water Bearing Stratifications:	Top	Bottom	Description
	56	99	Sandstone/Gravel/Conglomerate
	99	102	Sandstone/Gravel/Conglomerate
	102	103	Shale/Mudstone/Siltstone
	103	105	Shale/Mudstone/Siltstone
	105	117	Shale/Mudstone/Siltstone
	117	118	Other/Unknown
	118	120	Shale/Mudstone/Siltstone
	120	121	Sandstone/Gravel/Conglomerate
	121	124	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	84	124

Appendix B
Soil Survey:

U.S.D.A.
FEMA Flood Map

Lea County, New Mexico

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent
Palomas and similar soils: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Maljamar

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): 7e

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

Description of Palomas

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R042XC022NM - Sandhills
Hydric soil rating: No

Wink

Percent of map unit: 5 percent
Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Data Source Information

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

National Flood Hazard Layer FIRMette

FEMA

103°46'52"W 32°48'39"N

103°46'15"W 32°48'8"N

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

1:6,000

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

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/21/2022 at 12:37 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 C:

C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2218026857
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Spur Energy Partners, LLC	OGRID 328947
Contact Name Chad Hensley	Contact Telephone (346) 339-1494
Contact email chensley@spurenergy.com	Incident # *(assigned by OCD)* nAPP2218026857
Contact mailing address 9655 Katy Freeway, Suite 500, Houston, TX 77024	

Location of Release Source

Latitude 32.8065033 Longitude -103.7759476
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pearsall federal SWD #1	Site Type SWD
Date Release Discovered 6-27-2022	API# *(if applicable)* 30-025-40712

Unit Letter	Section	Township	Range	County
E	28	17S	32E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 17
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Corrosion in injection line.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2218026857
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Chad Hensley Title: EHS Coordinator

Signature: Chad Hensley Date: 06/29/2022

email: chensley@spurenergy.com Telephone: (346) 339-1494

OCD Only

Received by: Jocelyn Harimon Date: 06/29/2022

State of New Mexico
Oil Conservation Division

Form C-141

Incident ID	NAPP2218026857
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	124 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2218026857
District RP	
Facility ID	
Application ID	

and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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

Printed Name: Kathy Purvis. Title: HSE Coordinator

Signature: Katherine Purvis Date: 12/29/2022

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2218026857
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

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

☒ Description of remediation activities

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

Printed Name: Kathy Purvis. Title: HSE Coordinator

Signature: Katherine Purvis Date: 12/29/2022

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon Date: 12/29/2022

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

Closure Approved by: Jennifer Nobui Date: 01/25/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix D:

Photographic Documentation

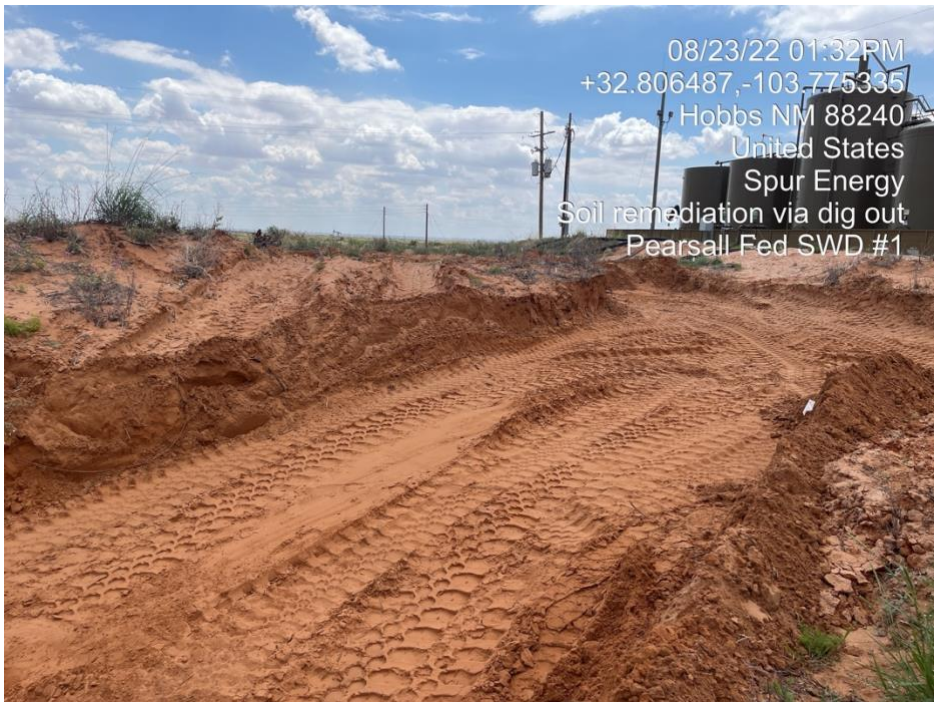
PARAGON ENVIRONMENTAL

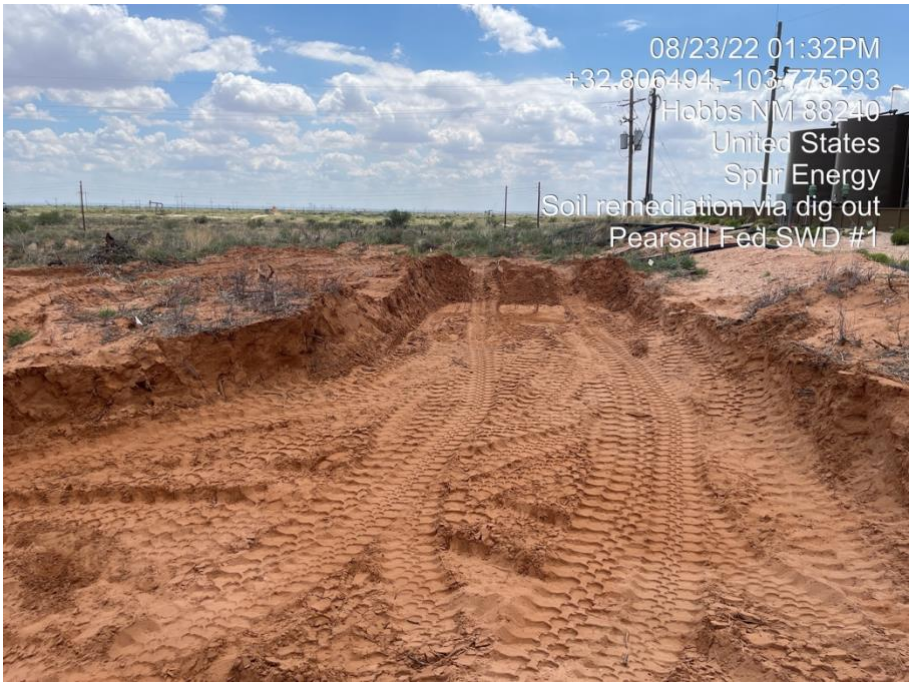
Photographic Documentation

Before Remediation

During


08/23/22 01:32PM
+32.806689,-103.775298
Hobbs NM 88240
United States
Spur Energy
Soil remediation via dig out
Pearsall Fed SWD #1


08/23/22 01:32PM
+32.806487,-103.775335
Hobbs NM 88240
United States
Spur Energy
Soil remediation via dig out
Pearsall Fed SWD #1


08/23/22 01:32PM
+32.806494,-103.775293
Hobbs NM 88240
United States
Spur Energy
Soil remediation via dig out
Pearsall Fed SWD #1


08/19/22 02:13PM
+32.806513,-103.775219
Hobbs NM 88240
United States
Spur Energy
Soil remediation via dig out
Pearsall Fed SWD #1

Completed


THU 01 SEP 2022 11:53AM
+32.806502,-103.775110
Hobbs NM 88240
United States
Spur Energy
Pearsall
Backfill


THU 01 SEP 2022 11:53AM
+32.806458,-103.775342
Hobbs NM 88240
United States
Spur Energy
Pearsall
Backfill


THU 01 SEP 2022 11:53AM
+32.806345,-103.775320
Hobbs NM 88240
United States
Spur Energy
Pearsall
Backfill


THU 01 SEP 2022 11:52AM
+32.806607,-103.775088
Hobbs NM 88240
United States
Spur Energy
Pearsall
Backfill

Appendix E:

Laboratory Results

CARDINAL Laboratories

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

July 15, 2022

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PEARSALL FEDERAL SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/12/22 16:55.

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 accreditated 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

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S1 0-6 (H222997-01)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	**0.068**	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2400**	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *70.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *80.1 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S1 1' (H222997-02)

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	07/13/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/13/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *76.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *87.9 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S2 0-6 (H222997-06)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5680**	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *69.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *81.0 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S2 1' (H222997-07)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5860**	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *66.9 %* *43-149*

Surrogate: 1-Chlorooctadecane *74.9 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S3 1' (H222997-11)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4960**	16.0	07/14/2022	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	07/13/2022	ND	179	89.3	200	5.04	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	194	96.8	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *77.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *85.8 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S4 1' (H222997-15)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1440**	16.0	07/14/2022	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	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *88.5 %* *43-149*

Surrogate: 1-Chlorooctadecane *87.0 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S5 1' (H222997-19)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/14/2022	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	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *82.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *81.3 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S3 0-6 (H222997-23)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3040**	16.0	07/14/2022	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	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	**49.7**	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *93.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *93.1 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S4 0-6 (H222997-24)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	07/14/2022	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	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *95.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *93.9 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD	Sampling Condition:	Cool & Intact
Project Number:	1-13	Sample Received By:	Shalyn Rodriguez
Project Location:	MALAGA		

Sample ID: S5 0-6 (H222997-25)

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	07/14/2022	ND	1.91	95.3	2.00	10.2	
Toluene*	<0.050	0.050	07/14/2022	ND	1.97	98.3	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.01	100	2.00	11.8	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.08	101	6.00	11.0	
Total BTEX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/14/2022	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	07/13/2022	ND	210	105	200	6.12	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	223	112	200	4.18	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane *100 %* *43-149*

Surrogate: 1-Chlorooctadecane *98.3 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental		BILL TO	
Project Manager: ~~Angel Pena~~ Chris Jones AP		P.O. #:	
Address: 1601 N. Turner		Company: SPur Energy	
City: Hobbs	State: NM Zip: 88240	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner: SPur Energy	City:	
Project Name: Pear Sall Federal SWD		State: Zip:	
Project Location: Malaga		Phone #:	
Sampler Name: Angel O. Pena		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX	HOLD							
H22997															✓	✓	✓								
1	S1 0-6					✓					✓		7-11		1	N	1								
2	S1 1'																	XXX							
3	S1 2'																								
4	S1 3'																								
5	S1 4'																								
	~~S1 5 PRA~~																								
6	S2 0-6																								
7	S2 1'																								
8	S2 2'																								
9	S2 3'																	XXX							
10	S2 4'																	X							

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Angel O. Pena	Date: 7-12-22 Time: 1655	Received By: S Rodriguez	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.8°C / C-0.6°C 2.2°C #113	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) SR

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Run each sample depth until sample tests clean.
SR 7.13.22

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental	BILL TO
Project Manager: ~~Angel Pena~~ Chris Jones AP	P.O. #:
Address: 1601 W. Turner	Company: SPurEnergy
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: Fax #:	Address:
Project #: 1-13 Project Owner: SPurEnergy	City:
Project Name: Pearsall Federal SWD	State: Zip:
Project Location: Malaga	Phone #:
Sampler Name: Angel O. Pena	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH	HOLD!
H222997	~~S2 5' AP~~																	
11	S3 1'					✓					✓		7-11		✓	✓	✓	
12	S3 2'																	X
13	S3 3'																	X
14	S3 4'																	
	~~S3 5' AP~~																	
15	S4 1'																	
16	S4 2'																	X
17	S4 3'																	X
18	S4 4'																	

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 the client for the analyses. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Angel O. Pena	Date: 7.12.22 Time: 1655	Received By: S Rodriguez	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.8° C -0.4° C 2.2° C #113	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) SR

REMARKS: Run each sample depth until sample tests clean. SR 7.13.22

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
Project Manager: ~~Angel Pena~~ Chris Jones
Address: 1601 N. Turner
City: Hobbs State: NM Zip: 88240
Phone #: Fax #:
Project #: 1-13 Project Owner: SPur Energy
Project Name: Pear Sall Federal SWD
Project Location: Malaga
Sampler Name: Angel O. Pena

BILL TO
P.O. #:
Company: SPur Energy
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides	BTEX	TPH	HOLD!
H22997	~~SH 5'~~																	
19	SS-1'					✓					✓		7-11		✓	✓	✓	
20	SS-2'																	XXX
21	SS-3'																	
22	SS-4'																	
	~~SS-5'~~																	
23	S3 0-6"										✓							
24	S4 0-6"																	
25	S5 0-6"																	

SR 7.13.22

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Relinquished By:	Date: 7-12-22	Received By:
Angel O. Pena	Time: 1655	S Rodriguez
Relinquished By:	Date:	Received By:
	Time:	

Delivered By: (Circle One) 2.8°C / C-0.6°C / 2.2°C #113
Sampler - UPS - Bus - Other:

Sample Condition: Cool Yes / No; Intact Yes / No
CHECKED BY: (Initials) SR

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Run each sample depth until sample tests clean.
SR 7.13.22

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

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

August 31, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PEARSALL FEDERAL SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 16:55.

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 accreditated 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

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: S1 (H223929-01)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *93.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *112 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWE1 (H223929-02)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	200	99.8	200	0.784	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	214	107	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *94.4 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *111 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWS1 (H223929-03)

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	08/30/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/30/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *101 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *108 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWW1 (H223929-04)

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	08/29/2022	ND	2.13	106	2.00	2.16	
Toluene*	<0.050	0.050	08/29/2022	ND	2.12	106	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.05	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.43	107	6.00	2.80	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *99.2 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *105 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: S2 (H223929-05)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *93.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *99.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWW2 (H223929-06)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *93.9 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *99.6 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWE2 (H223929-07)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *85.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *90.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: S3 (H223929-08)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *88.4 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *91.8 %* *46.3-178*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWW3 (H223929-09)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *84.7 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *86.8 %* *46.3-178*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWE3 (H223929-10)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *69.9-140*

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	08/29/2022	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	08/26/2022	ND	203	101	200	0.285	
DRO >C10-C28*	<10.0	10.0	08/26/2022	ND	216	108	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	08/26/2022	ND					

Surrogate: 1-Chlorooctane *88.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *92.4 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWW4 (H223929-11)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.9-140*

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	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane *90.9 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *109 %* *46.3-178*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: SWE4 (H223929-12)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *69.9-140*

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	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane *91.1 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *107 %* *46.3-178*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

PARAGON ENVIROMENTAL
CASON SPURLOCK
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/24/2022
Reported:	08/31/2022	Sampling Type:	Soil
Project Name:	PEARSALL FEDERAL SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY		

Sample ID: S4 (H223929-13)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *69.9-140*

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	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					

Surrogate: 1-Chlorooctane *90.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *105 %* *46.3-178*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental	BILL TO
Project Manager: Cason Spurlock	P.O. #:
Address: 5002 Carriage Rd	Company: Spur Energy
City: Hobbs State: NM Zip: 88242	Attn:
Phone #: 575-631-6977 Fax #:	Address:
Project #: Project Owner: Spur Energy	City:
Project Name: Pearsall Federal SWD #1	State: Zip:
Project Location:	Phone #:
Sampler Name:	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides Salt BTEX
H223929															
1	S1	G											8/24		
2	SWE1														
3	SWS1														
4	SWW1														
5	S2														
6	SWW2														
7	SWE2														
8	S3														
9	SWW3														
10	SWE3														

Relinquished By:	Date: 8-25-22	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1655		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) 3.1° 2.5° #113	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental
Project Manager: Cason Spurlock
Address: 5002 Carriage Rd
City: Hobbs State: NM Zip: 88242
Phone #: 575-631-6977 Fax #:
Project #: Project Owner: Spur Energy
Project Name: Pearsall Federal SWD #1
Project Location:
Sampler Name:

BILL TO
P.O. #:
Company: Spur Energy
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

Chlorides
TPH
BTEX

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H223929														
11	SWW4	G	1			✓					✓		8/24	
12	SWE4	G	1			✓					✓			
13	S4	G	1			✓					✓			

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-25-22	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1655		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.1° 2.5° #113	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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

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

CONDITIONS

Action 171112

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 171112
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/25/2023