



February 13, 202233

NMOCD District 2
Mr. Mike Bratcher
Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Passion Fed Com PDK #5H Battery Pasture
API No. N/A
GPS: Latitude 32.86105 Longitude -104.01925
UL "L", Sec. 06, T17S, R30E
Eddy County, NM
NMOCD Ref. No. NAPP2225629246

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 Passion Fed Com PDK #5H Battery Pasture spill (Passion). Details of the release are summarized below:

Release Details			
Type of Release:	Produced Water	Volume of Release:	10 bbls
		Volume Recovered:	0 bbls
Source of Release:	Poly Water Line	Date of Release:	09/12/22
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A
Was a Watercourse Reached?	No	If Yes, Volume Impacting Watercourse:	N/A
Surface Owner:	Federal	Mineral Owner:	
Crew laid an 8" freshwater line along the two-track road and struck a 4" poly water transfer line.			

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	<50'
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 there was NO water data within a ½ mile radius. Because of that and due to the fact the spill happened off 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)— 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 (QEP). The soil in this area is made up of Kermit-Berino 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 both excessively-drained and 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 October 12, 2022, Paragon conducted an initial site assessment. During the initial site assessment, we obtained samples in the path of the spill. The spill area measured approximately 1000 sq. ft. Four (4) 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:

10-12-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC								
Sample Date 10-12-22		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	6"	ND	ND	ND	566	220	786	160
	1'	ND	ND	ND	65.7	11.8	65.7	544
	2'	ND	ND	ND	25	ND	25	6000
S-2	6"	ND	ND	ND	168	54.5	222.5	416
	1'	ND	ND	ND	225	86.5	311.5	416
S-3	6"	ND	ND	ND	16.7	ND	16.7	176
	1'	ND	ND	ND	ND	ND	ND	240
S-4	6"	ND	ND	ND	35.5	ND	35.5	320
	1'	ND	ND	ND	53.4	ND	53.4	3680
	2'	ND	ND	ND	73.1	13.4	86.5	3880
BG-1	SURFACE	ND	ND	ND	ND	ND	ND	32
BG-2	SURFACE	ND	ND	ND	ND	ND	ND	16
BG-3	SURFACE	ND	ND	ND	ND	ND	ND	32

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 through S-4 were excavated to a depth of 3-foot BGS.

All excavated soils were temporarily stockpiled on-site atop a poly liner during the project. Once these areas were excavated, an email was sent to the NMOCD on December 15, 2022, notifying them that we would be obtaining confirmation bottom and sidewall samples on December 19, 2022. 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:

12-19-22 Confirmation Samples

NMOCD Table 1 Closure Criteria 19.15.29 NMAC								
Sample Date 12-19-22		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	3'	--	--	ND	ND	ND	ND	48
S-2	3'	--	--	ND	ND	ND	ND	48
S-3	3'	--	--	ND	ND	ND	ND	32
S-4	3'	--	--	ND	ND	ND	ND	48
S-5	3'	--	--	ND	ND	ND	ND	128
S. SW	3'	--	--	ND	ND	ND	ND	48
N. SW	3'	--	--	ND	ND	ND	ND	48
E. SW	3'	--	--	ND	ND	ND	ND	48
W. SW	3'	--	--	ND	ND	ND	ND	32

(ND) Analyte Not Detected / (--) Analyte Not Tested

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 locally obtained sand in order to keep 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, NAPP2225629246, 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 Tristan Jones by phone at (575)318-6841 or email at tristan@paragonenvironmental.net.

Respectfully,



Tristan Jones
Project Coordinator
Paragon Environmental, LLC



Chris Jones
Environmental Professional
Paragon Environmental, LLC

**Attachments****Figures:**

- 1- Site Map
- 2- Topographic Map
- 3- Karst Map
- 4- Aerial Map
- 5- Preliminary Sample Map
- 6- Confirmation Sample Map

Appendices:

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





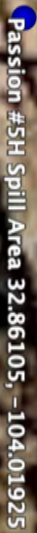
Figures:

- 1-Site Map
- 2- Topo Map
- 3- Karst Map
- 4- Aerial Map

Passion 1 Fed Com PDK #5H
Eddy County, NM
Site Map

Page 7 of 62

-  Samples
-  Spill Area

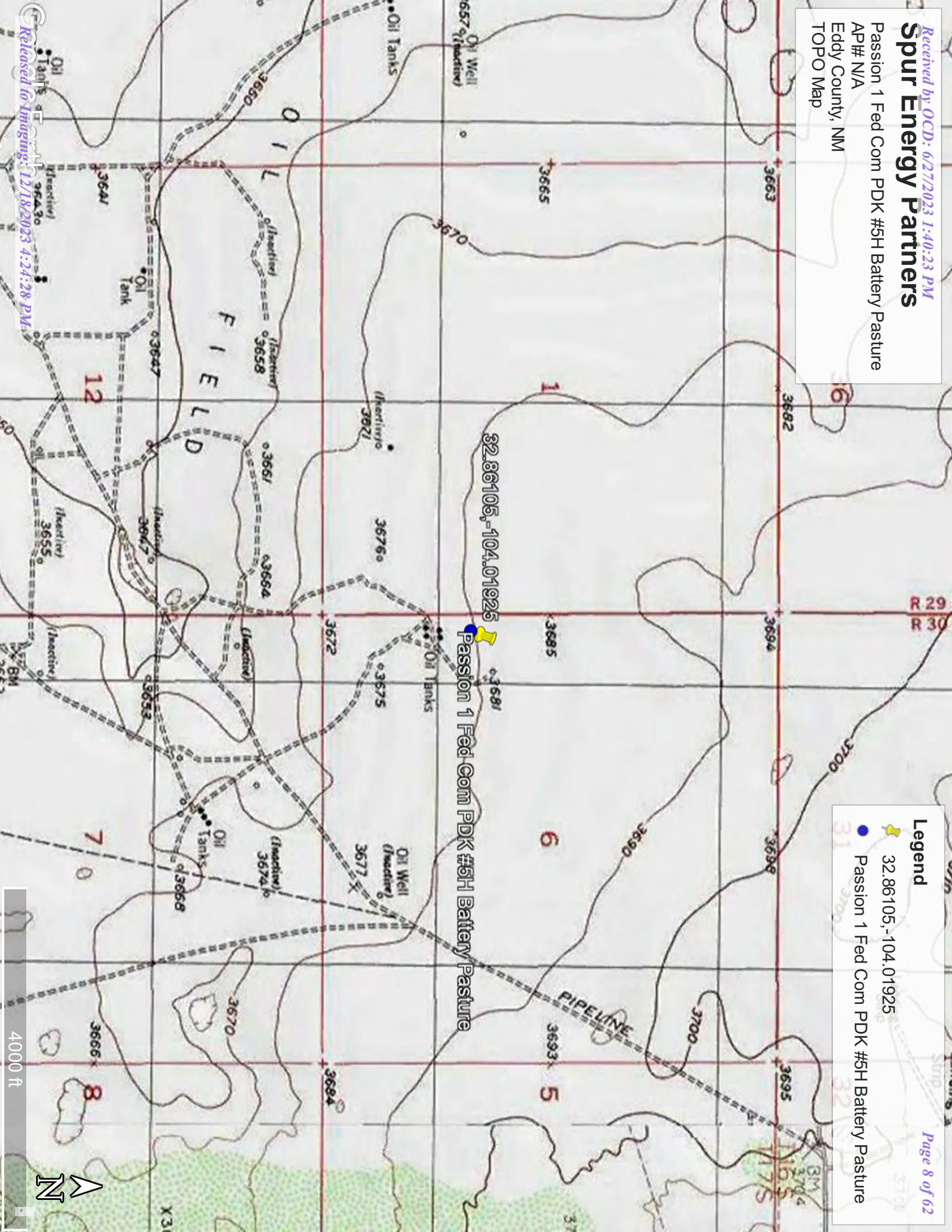


Spur Energy Partners

Passion 1 Fed Com PDK #5H Battery Pasture
AP# N/A
Eddy County, NM
TOPO Map

Legend

-  32.86105,-104.01925
-  Passion 1 Fed Com PDK #5H Battery Pasture



Spur Energy Partners

Passion 1 Fed Com PDK #5H Battery Pasture
AP# N/A
Eddy County, NM
Karst Map

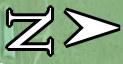
Legend

-  32.86105,-104.01925
-  Passion 1 Fed Com PDK #5H Battery Pasture

32.86105,-104.01925



Passion 1 Fed Com PDK #5H Battery Pasture

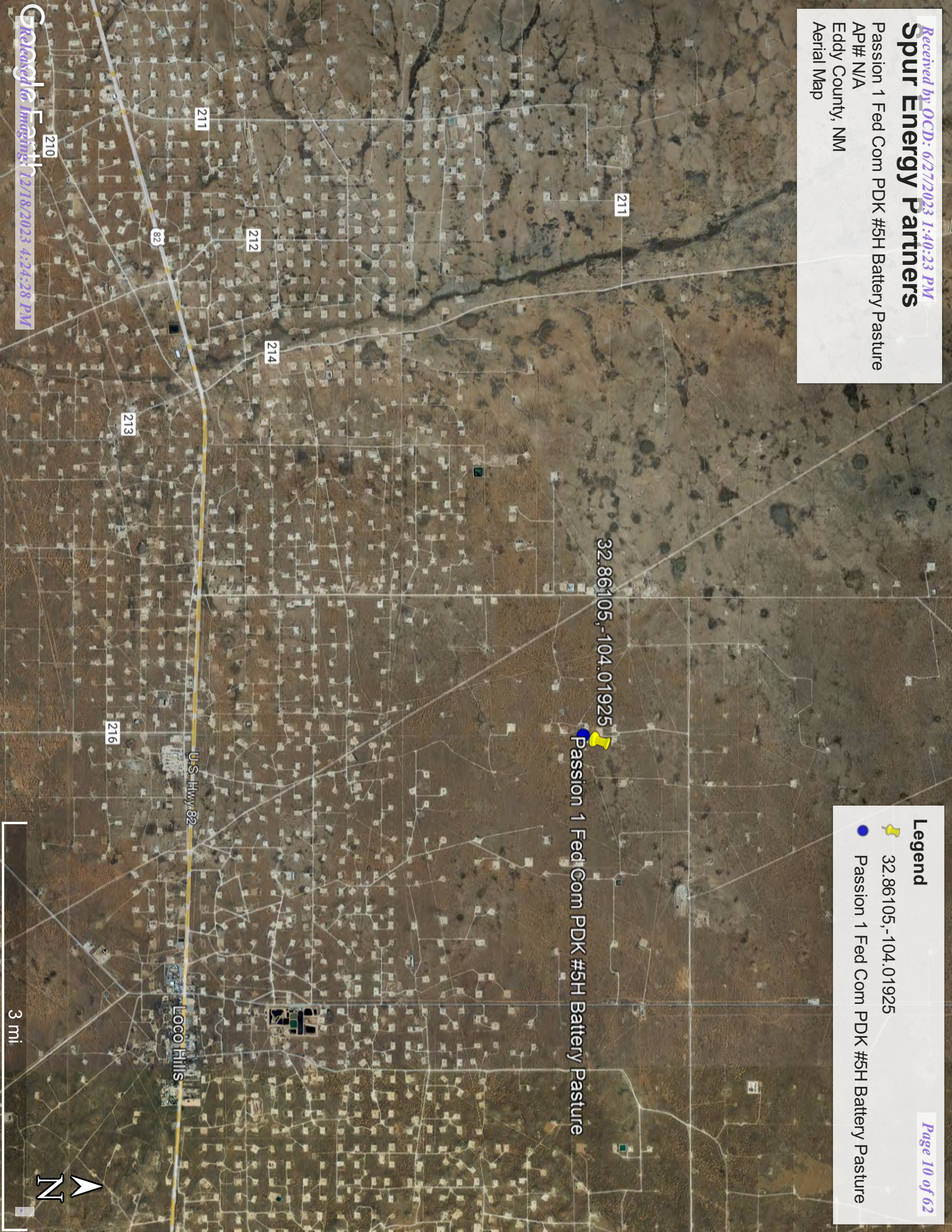
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Passion 1 Fed Com PDK #5H Battery Pasture
AP# N/A
Eddy County, NM
Aerial Map

Legend

-  32.86105,-104.01925
-  Passion 1 Fed Com PDK #5H Battery Pasture

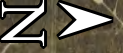


32.86105,-104.01925

Passion 1 Fed Com PDK #5H Battery Pasture

U.S. Hwy. 62

Loco Hills





Appendix A
Referenced Water Data:

New Mexico State of Engineers Office



(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Average Depth to Water: ---
Minimum Depth: ---
Maximum Depth: ---

UTMNAD83 Radius Search (in meters):

Northing (Y): 3636308.554

Radius: 5000

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.

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	RA 13233 POD1	3	3	1	06	17S	30E	591790	3636711

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.
Driller Name:	JACKIE D ATKINS		
Drill Start Date:	10/05/2022	Drill Finish Date:	10/05/2022
Log File Date:	11/15/2022	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:		Depth Well:	104 feet
		Depth Water:	

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.

1/9/23 2:13 PM

POINT OF DIVERSION SUMMARY



Appendix B
Soil Survey:

U.S.D.A.
FEMA Flood Map

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q

Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches

Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent

Berino and similar soils: 35 percent

Minor components: 15 percent

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

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand

H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: fine sandy loam
H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022


National Flood Hazard Layer FIRMette





104°12'8" W 32°51'55" N









Legend




SEE THIS 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
-----------------------------------	--

 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 OF FLOOD HAZARD	 NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS	 Effective LOMRs Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	 Channel, Culvert, or Storm Sewer  Levee, Dike, or Floodwall

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

OTHER FEATURES	 Digital Data Available
MAP PANELS	 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 10/18/2022 at 3:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmoderized 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	nAPP2225629246
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)	nAPP2225629246
Contact mailing address	9655 Katy Freeway, Suite 500, Houston, TX 77024		

Location of Release Source

Latitude 32.86105 Longitude -104.01925
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Passion 1 Fed Com PDK #5H battery pasture	Site Type	N/A
Date Release Discovered	09/12/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	6	17S	30E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10bbl	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Crew laid 8" fresh water line along two track road and striking 4" poly water transfer line.

Initial Response

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

Released to Imaging: 12/18/2023 4:24:28 PM

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Katherine Purvis Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 6/27/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: Katherine Purvis Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Shelly Wells Date: 6/27/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
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: _____ Title: _____

Signature: Katherine Purvis Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 6/27/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Appendix D:

Email Notification

Photographic Documentation

Monday, February 13, 2023 at 12:53:46 Mountain Standard Time

Subject: Passion 1 Fed Com pdk #5H conformation samples

Date: Thursday, December 15, 2022 at 12:03:54 PM Mountain Standard Time

From: Angel Pena

To: Hamlet, Robert, EMNRD, Braidy Moulder, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD, Bratcher, Mike, EMNRD, katherine.purvis@spurenergy.com, Chris Jones

Good morning

We will be conducting confirmation sampling at the Passion 1 Federal COM PDK #5H (API#30-015-42410) on 12-19-22 at approximately 8:00 AM . GPS to the site is 32.8613210, -104.0201741. If you have any questions please let me know

Thank you

Angel Peña

575-605-0773

Paragon Environmental LLC.



Photographic Documentation

Before Remediation





Photographic Documentation

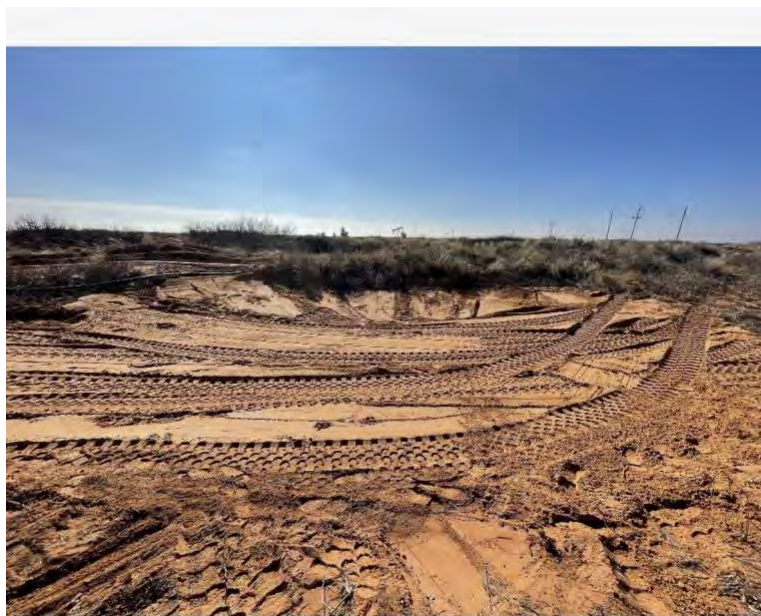
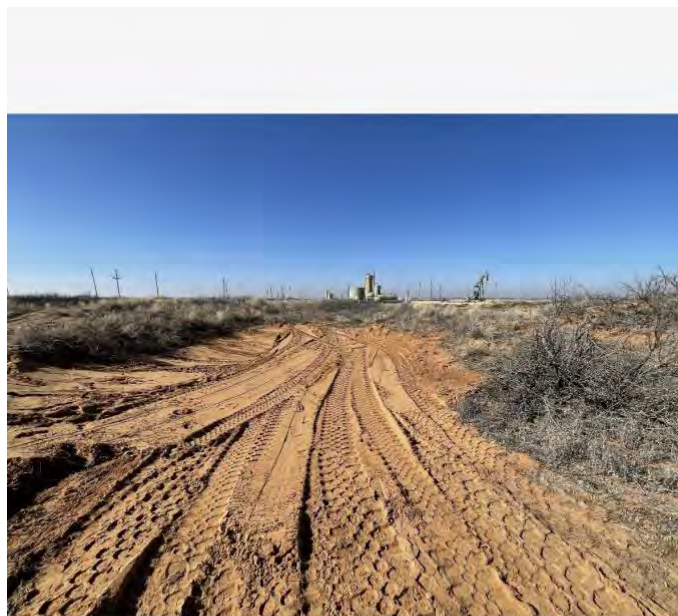
Open Excavation





Photographic Documentation

Post Remediation





Appendix E:
Laboratory Results



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

October 19, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PASSION 1 FED COM PDK #5 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/13/22 8:30.

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S 1 6"	H224813-01	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 1 1'	H224813-02	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 1 2'	H224813-03	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 2 6"	H224813-04	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 2 1'	H224813-05	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 3 6"	H224813-06	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 3 1'	H224813-07	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 4 6"	H224813-08	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 4 1'	H224813-09	Soil	12-Oct-22 00:00	13-Oct-22 08:30
S 4 2'	H224813-10	Soil	12-Oct-22 00:00	13-Oct-22 08:30
BG 1 SURF	H224813-11	Soil	12-Oct-22 00:00	13-Oct-22 08:30
BG 2 SURF	H224813-12	Soil	12-Oct-22 00:00	13-Oct-22 08:30
BG 3 SURF	H224813-13	Soil	12-Oct-22 00:00	13-Oct-22 08:30

10/19/22 - Client changed the project name (See COC). This is the revised report and will replace the one sent on 10/18/22.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 1 6"
H224813-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	566		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	220		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 93.6 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 154 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 1 1'
H224813-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	544		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	65.7		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	11.8		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 93.4 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 115 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 1 2'
H224813-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6000		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	25.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 93.9 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 114 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 2 6"**H224813-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	416		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	168		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	54.5		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 92.7 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 123 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 2 1'
H224813-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	416		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	225		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	86.5		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 91.7 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 124 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 3 6"**H224813-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	16.7		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 88.5 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 107 % 46.3-178 2101406 MS 15-Oct-22 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 3 1'
H224813-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 94.1 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 115 % 46.3-178 2101406 MS 15-Oct-22 8015B

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:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 4 6"**H224813-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	35.5		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 93.9 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 115 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 4 1'
H224813-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3680		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	53.4		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 97.3 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 122 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

S 4 2'
H224813-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3880		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
DRO >C10-C28*	73.1		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	
EXT DRO >C28-C36	13.4		10.0	mg/kg	1	2101406	MS	15-Oct-22	8015B	

Surrogate: 1-Chlorooctane 93.0 % 45.3-161 2101406 MS 15-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 118 % 46.3-178 2101406 MS 15-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

BG 1 SURF
H224813-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101424	JH/	15-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101424	JH/	15-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2101424 JH/ 15-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	

Surrogate: 1-Chlorooctane 101 % 45.3-161 2101407 MS 14-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 104 % 46.3-178 2101407 MS 14-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

BG 2 SURF
H224813-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101426	JH/	16-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140 2101426 JH/ 16-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	

Surrogate: 1-Chlorooctane 105 % 45.3-161 2101407 MS 14-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 107 % 46.3-178 2101407 MS 14-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

BG 3 SURF
H224813-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2101506	GM	15-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2101426	JH/	16-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2101426	JH/	16-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140 2101426 JH/ 16-Oct-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2101407	MS	14-Oct-22	8015B	

Surrogate: 1-Chlorooctane 106 % 45.3-161 2101407 MS 14-Oct-22 8015B

Surrogate: 1-Chlorooctadecane 108 % 46.3-178 2101407 MS 14-Oct-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2101506 - 1:4 DI Water									
Blank (2101506-BLK1)				Prepared & Analyzed: 15-Oct-22					
Chloride	ND	16.0	mg/kg						
LCS (2101506-BS1)				Prepared & Analyzed: 15-Oct-22					
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (2101506-BSD1)				Prepared & Analyzed: 15-Oct-22					
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101424 - Volatiles**Blank (2101424-BLK1)**

Prepared: 14-Oct-22 Analyzed: 15-Oct-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	69.9-140			

LCS (2101424-BS1)

Prepared: 14-Oct-22 Analyzed: 15-Oct-22

Benzene	1.87	0.050	mg/kg	2.00		93.7	83.4-122			
Toluene	1.88	0.050	mg/kg	2.00		94.0	84.2-126			
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.2	84.2-121			
m,p-Xylene	3.81	0.100	mg/kg	4.00		95.2	89.9-126			
o-Xylene	1.83	0.050	mg/kg	2.00		91.7	84.3-123			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.1	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	69.9-140			

LCS Dup (2101424-BS1)

Prepared: 14-Oct-22 Analyzed: 15-Oct-22

Benzene	2.08	0.050	mg/kg	2.00		104	83.4-122	10.4	12.6	
Toluene	2.06	0.050	mg/kg	2.00		103	84.2-126	9.36	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121	9.10	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126	8.55	13.6	
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123	9.45	14.1	
Total Xylenes	6.17	0.150	mg/kg	6.00		103	89.1-124	8.85	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	69.9-140			

Batch 2101426 - Volatiles**Blank (2101426-BLK1)**

Prepared: 14-Oct-22 Analyzed: 16-Oct-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101426 - Volatiles**Blank (2101426-BLK1)**

Prepared: 14-Oct-22 Analyzed: 16-Oct-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	69.9-140			

LCS (2101426-BS1)

Prepared: 14-Oct-22 Analyzed: 16-Oct-22

Benzene	1.99	0.050	mg/kg	2.00		99.3	83.4-122			
Toluene	2.02	0.050	mg/kg	2.00		101	84.2-126			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	69.9-140			

LCS Dup (2101426-BS1)

Prepared: 14-Oct-22 Analyzed: 16-Oct-22

Benzene	2.05	0.050	mg/kg	2.00		102	83.4-122	3.07	12.6	
Toluene	2.05	0.050	mg/kg	2.00		103	84.2-126	1.80	13.3	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	84.2-121	0.586	13.9	
m,p-Xylene	4.16	0.100	mg/kg	4.00		104	89.9-126	0.120	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		101	84.3-123	0.705	14.1	
Total Xylenes	6.18	0.150	mg/kg	6.00		103	89.1-124	0.312	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		99.9	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101406 - General Prep - Organics**Blank (2101406-BLK1)**

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	45.3-161			
Surrogate: 1-Chlorooctadecane	61.7		mg/kg	50.0		123	46.3-178			

LCS (2101406-BS1)

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	220	10.0	mg/kg	200		110	76.8-124			
DRO >C10-C28	227	10.0	mg/kg	200		113	74.9-127			
Total TPH C6-C28	446	10.0	mg/kg	400		112	77.5-124			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	45.3-161			
Surrogate: 1-Chlorooctadecane	69.4		mg/kg	50.0		139	46.3-178			

LCS Dup (2101406-BS1)

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	218	10.0	mg/kg	200		109	76.8-124	0.724	17.2	
DRO >C10-C28	220	10.0	mg/kg	200		110	74.9-127	2.75	18.6	
Total TPH C6-C28	438	10.0	mg/kg	400		110	77.5-124	1.75	17.6	
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	45.3-161			
Surrogate: 1-Chlorooctadecane	68.8		mg/kg	50.0		138	46.3-178			

Batch 2101407 - General Prep - Organics**Blank (2101407-BLK1)**

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.7		mg/kg	50.0		111	45.3-161			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0		116	46.3-178			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PARAGON ENVIROMENTAL
5002 CARRAIGE RD
HOBBS NM, 88242

Project: PASSION 1 FED COM PDK #5 BAT
Project Number: PASTURE
Project Manager: CASON SPURLOCK
Fax To:

Reported:
19-Oct-22 09:50

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101407 - General Prep - Organics**LCS (2101407-BS1)**

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	209	10.0	mg/kg	200		104	76.8-124			
DRO >C10-C28	199	10.0	mg/kg	200		99.3	74.9-127			
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.5-124			
Surrogate: 1-Chlorooctane	65.7		mg/kg	50.0		131	45.3-161			
Surrogate: 1-Chlorooctadecane	65.8		mg/kg	50.0		132	46.3-178			

LCS Dup (2101407-BSD1)

Prepared & Analyzed: 14-Oct-22

GRO C6-C10	215	10.0	mg/kg	200		107	76.8-124	2.83	17.2	
DRO >C10-C28	231	10.0	mg/kg	200		116	74.9-127	15.2	18.6	
Total TPH C6-C28	446	10.0	mg/kg	400		112	77.5-124	9.04	17.6	
Surrogate: 1-Chlorooctane	61.5		mg/kg	50.0		123	45.3-161			
Surrogate: 1-Chlorooctadecane	65.8		mg/kg	50.0		132	46.3-178			

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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 cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CARDINAL
Laboratories

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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										ANALYSIS REQUEST																													
Project Manager: Cason Spurlock										P.O. #:																																							
Address: 5002 Carriage Rd										Company:																																							
City: Hobbs										Attn:																																							
Phone #: 575-631-6977										State: NM zip: 88242																																							
Project #:										Project Owner:																																							
Project Name:										City:																																							
Project Location:										State:										Zip:																													
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FOR LAB USE ONLY										Fax #:																																							
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 20, 2022

CASON SPURLOCK

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: PASSION 1 FED COM PDK #5

Enclosed are the results of analyses for samples received by the laboratory on 12/19/22 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 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:

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

Received: 12/19/2022
 Reported: 12/20/2022
 Project Name: PASSION 1 FED COM PDK #5
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 (H226008-01)

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	12/20/2022	ND	416	104	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	12/19/2022	ND	208	104	200	6.58		
DRO >C10-C28*	<10.0	10.0	12/19/2022	ND	205	103	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	12/19/2022	ND						
Surrogate: 1-Chlorooctane	79.6 %	45.3-161								
Surrogate: 1-Chlorooctadecane	86.3 %	46.3-178								

Sample ID: S - 2 (H226008-02)

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	12/20/2022	ND	416	104	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	12/19/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/19/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/19/2022	ND					
Surrogate: 1-Chlorooctane	81.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	88.6 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/19/2022
 Reported: 12/20/2022
 Project Name: PASSION 1 FED COM PDK #5
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 (H226008-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	85.1 %	45.3-161							
Surrogate: 1-Chlorooctadecane	91.5 %	46.3-178							

Sample ID: S - 4 (H226008-04)

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	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	89.8 %	45.3-161							
Surrogate: 1-Chlorooctadecane	97.1 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/19/2022
 Reported: 12/20/2022
 Project Name: PASSION 1 FED COM PDK #5
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 (H226008-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	86.4 %	45.3-161							
Surrogate: 1-Chlorooctadecane	92.7 %	46.3-178							

Sample ID: SSW (H226008-06)

Chloride, SM4500CI-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	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	85.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	91.7 %	46.3-178							

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Celey D. Keene, Lab Director/Quality Manager



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: 12/19/2022
 Reported: 12/20/2022
 Project Name: PASSION 1 FED COM PDK #5
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW (H226008-07)

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	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	86.9 %	45.3-161							
Surrogate: 1-Chlorooctadecane	94.2 %	46.3-178							

Sample ID: ESW (H226008-08)

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	12/20/2022	ND	416	104	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	12/20/2022	ND	208	104	200	6.58		
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	205	103	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND						
Surrogate: 1-Chlorooctane	87.7 %	45.3-161								
Surrogate: 1-Chlorooctadecane	95.3 %	46.3-178								

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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:

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

Received: 12/19/2022
 Reported: 12/20/2022
 Project Name: PASSION 1 FED COM PDK #5
 Project Number: NOT GIVEN
 Project Location: SPUR - RURAL EDDY

Sampling Date: 12/19/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW (H226008-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2022	ND	416	104	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	12/20/2022	ND	194	97.2	200	4.41	
DRO >C10-C28*	<10.0	10.0	12/20/2022	ND	187	93.5	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	12/20/2022	ND					
Surrogate: 1-Chlorooctane	86.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	95.9 %	46.3-178							

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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 "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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		ANALYSIS REQUEST																																	
Project Manager: Cason Spurlock		P.O. #:																																			
Address: 5002 Carriage Rd		Company: <i>Star Energy</i>																																			
City: Hobbs		Attn:																																			
Phone #: 575-631-6977		Address:																																			
Fax #:		City:																																			
Project #: <i>Passion 1 Fed con PDR #5</i>		State: Zip:																																			
Project Name: <i>Russell Edg</i>		Phone #:																																			
Project Location: <i>Russell Edg</i>		Fax #:																																			
Sampler Name: <i>Angela O. Peña</i>		PRESERV		SAMPLING																																	
FOR LAB USE ONLY																																					
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											
<i>H20008</i>	<i>5-1</i>	<i>5</i>																						<i>12/19</i>		<i>8:00AM</i>		<i>Chlorides</i>									
	<i>5-2</i>																							<i>12/19</i>		<i>8:05AM</i>		<i>TPH</i>									
	<i>3</i>																							<i>8:10AM</i>													
	<i>4</i>																							<i>8:15AM</i>													
	<i>5</i>																							<i>8:20AM</i>													
	<i>6</i>																							<i>8:25AM</i>													
	<i>7</i>																							<i>8:30AM</i>													
	<i>8</i>																							<i>8:35AM</i>													
	<i>9</i>																							<i>8:40AM</i>													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this 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 categories or otherwise.</p>																																					
Relinquished By: <i>Angela O. Peña</i>		Date: <i>12/19</i>		Time: <i>11:55</i>		Received By: <i>Angela O. Peña</i>		Date: <i>12/19</i>		Time: <i>11:55</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <i>RUSS111</i>																					
Relinquished By: <i>Angela O. Peña</i>		Date: <i>12/19</i>		Time: <i>11:55</i>		Received By: <i>Angela O. Peña</i>		Date: <i>12/19</i>		Time: <i>11:55</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <i>RUSS111</i>																					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)																																	
Sampler - UPS - Bus - Other: <i>3.8e/3.2e</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>#13</i>																																	

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

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

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

CONDITIONS

Action 233426

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 233426
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/18/2023