

June 20, 2023

NMOCD District 2 Mike Bratcher Artesia, NM 88210

Bureau of Land Management Crisha Morgan Carlsbad Field Office

Re: Site Assessment, Remediation, and Deferral Closure Report Saber Fed #1 API No. 30-015-27882 GPS: Latitude 32.8544502 Longitude -104.0433884 UL "B", Sec. 11, T17S, R29E Eddy County, NM NMOCD Ref. No. nRM2004833416

Paragon Environmental, LLC (Paragon) has been contracted by Spur Energy Partners (Spur) to perform a spill assessment, conduct remediation activities, and reclaim the old containment area for the release site known as the Saber Fed #1 (Saber). Details of the release are summarized below:

Release Details						
T-ma of Dalasaa	Due date d Weter	Volume of Release:	7 bbls			
Type of Release:	Produced Water	Volume Recovered:	3.5 bbls			
Source of Release:	Water line	Date of Release:	2/6/20			
Was Immediate Notice Given?	No	If, Yes, to Whom?	N/A			
Was a Watercourse Reached?	No	If Yes, Volume Impact	ing Watercourse:	N/A		
Surface Owner:	Federal	Mineral Owner:	Federal			
The discharge line off of the water pump had a subsurface water leak, which was released onto location and approximately one						
bbl of fluid went into the past						
bor of fluid went fitto the pus						

Topographical and Aerial Maps are provided in Figures #2 and #4. 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, private, or domestic freshwater 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. With this being the case, we cleaned it up to the most stringent 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 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. (Qep). The soil in this area is made up of Reagan Loam, with 1 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 Saber (Figure #3).

The Soil Survey and FEMA Flood Map are provided in Appendix B. A Karst Map is provided in Figure #3.

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

INITIAL SITE ASSESSMENT

On August 23rd, 2022, Paragon conducted an initial site assessment. During the initial site assessment, it was determined to gather samples in the area where the spill had pooled up on the west side of the pad in the pasture area. Five (5) soil samples were collected in this area 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:

NMOCD Table 1 Closure Criteria 19.15.29 NMAC								
Sample D	ate 8-23-22	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
	0-6"	ND	ND	ND	ND	ND	ND	16
S-1	1'	ND	ND	ND	ND	ND	ND	16
5-1	2'	ND	ND	ND	ND	ND	ND	16
	3' REFUSAL	ND	ND	ND	ND	ND	ND	32
	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	1020
S-2	2'	ND	ND	ND	ND	ND	ND	1920
	3'	ND	ND	ND	ND	ND	ND	1660
	4'	ND	ND	ND	ND	ND	ND	2000
	0-6"	ND	ND	ND	ND	ND	ND	8320
S-3	1'	ND	ND	ND	ND	ND	ND	2600
3-5	2'	ND	ND	ND	ND	ND	ND	3120
	3' REFUSAL	ND	ND	ND	ND	ND	ND	2800
	0-6"	ND	ND	ND	ND	ND	ND	1680
S-4	1'	ND	ND	ND	ND	ND	ND	1940
3-4	2'	ND	ND	ND	ND	ND	ND	624
	3' REFUSAL	ND	ND	ND	ND	ND	ND	1100
	0-6"	ND	ND	ND	ND	ND	ND	4000
]	1'	ND	ND	ND	ND	ND	ND	5360
S-5	2'	ND	ND	ND	ND	ND	ND	656
	3'	ND	ND	ND	ND	ND	ND	624
	4'	ND	ND	ND	ND	ND	ND	896

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

A Site Map is provided in Figure #1.

REMEDIATION ACTIVITIES

On May 1, 2023, Paragon mobilized personnel and equipment to conduct remedial activities. Based on the site characteristics and field observations made during the site assessment, the following details the remedial activities we conducted to advance the Release Site toward an NMOCD-approved site closure.

Our scope of work went was as follows:

- The areas of S-2, S-3, S-4, and S-5 were excavated to a depth of 5' BGS with heavy equipment.

An email notification was sent to the NMOCD prior to obtaining confirmation samples. We utilized 5-point bottom composite sampling and sidewall composite sampling, where each sample was representative of no more than 200 sq/ft. The results of this sampling event are in the following data table.

	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
Sample Da	ate 5-8-23	Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg				Closure Criteria 100 mg/kg	Closure Criteria <u>6</u> 00 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
SSW-1	5							16
ESW-1	5							16
ESW-2	5							1020
NSW-1	5							32
WSW-1	5							96
WSW-2	5							224
S-1	5							32
S-2	5							32
S-3	5							32
S-4	5							480
S-5	5							480
S-6	5							384
S-7	5							272
S-8	5							288

5-8-23 Confirmation Samples

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

These laboratory analytical results showed that the confirmation soil samples indicated concentrations below NMOCD Closure Criteria except for the area of ESW-2. It was determined that if further excavation along that sidewall continued, it would jeopardize the infrastructure and pipelines running along this area. It was also determined to request a deferral for this area. This area was vertically delineated. We again returned to the site on June 15, 2023, to obtain an additional sample in the ESW-2 area to obtain horizontal delineation. We found clean soil beneath the flow lines running along the side of the berm. This area will be remediated or reclaimed during any major destruction or during the decommissioning of the facility. The results of this sample are in the following data table. The excavated soils were loaded into trucks and transported to Lea Land, an NMOCD-approved waste disposal facility. After receiving laboratory analytical results below the closure criteria, the excavated areas were backfilled with "like" material obtained from a localized sand pit. The affected area was then contoured and machine compacted to match the surrounding grade.

	NMOCD Ta	ble 1 Closure	Criteria 19.15	5.29 NMAG	C (Depth to	Groundwa	ter is <50')	
Sample Dat	e 6-15-23	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
ESW 2	0-6"	ND	ND	ND	ND	ND	ND	48

6-15-23 Laboratory Results

(ND) Analyte Not Detected

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DEFERRAL REQUEST

After careful review, Paragon requests that the incident, NRM2004833416, be granted a Deferral Closure. Spur has complied with the applicable deferral 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)631-6977 or email at chris@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- Confirmation Sample Map

Appendices:

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



Figures:

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













Appendix A Referenced Water Data:

New Mexico State of Engineers Office

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Appendix B Soil Survey:

U.S.D.A.

FEMA Flood Map

Eddy Area, New Mexico

Rd—Reagan loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5m Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 15 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Prime farmland if irrigated

Map Unit Composition

Reagan and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam *H2 - 8 to 82 inches:* loam

Properties and qualities

Slope: 1 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 moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e Hydrologic Soil Group: B *Ecological site:* R042XC007NM - Loamy *Hydric soil rating:* No

Minor Components

Reagan

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Upton

Percent of map unit: 1 percent Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021







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

unmapped and unmodernized areas cannot be used for

regulatory purposes.

JReleaseatto Imaging: 7/31/2023 4999:06 PM

1,500

2,000

OTHER AREAS OF FLOOD HAZARD SPECIAL FLOOD HAZARD AREAS SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Legend OTHER AREAS STRUCTURES IIIIII Levee, Dike, or Floodwall MAP PANELS legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, become superseded by new data over time. reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 8/5/2022 at 12:49 PM and does not authoritative NFHL web services provided by FEMA. This map The flood hazard information is derived directly from the accuracy standards digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap This map complies with FEMA's standards for the use of This map image is void if the one or more of the following map FEATURES GENERAL ----OTHER φ NO SCREEN Area of Minimal Flood Hazard Zone X ~ 073 ~~~~ The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. 20.2 17.5 Coastal Transect Baseline Limit of Study Water Surface Elevation Channel, Culvert, or Storm Sewer Unmapped Digital Data Available Hydrographic Feature **Profile Baseline** Jurisdiction Boundary **Base Flood Elevation Line (BFE) Coastal Transect Cross Sections with 1% Annual Chance** Area of Undetermined Flood Hazard Zone D Effective LOMRs Area with Flood Risk due to Levee Zone D Chance Flood Hazard Zone X 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR No Digital Data Available Levee. See Notes. Zone X Area with Reduced Flood Risk due to Future Conditions 1% Annual areas of less than one square mile Zone X depth less than one foot or with drainage Without Base Flood Elevation (BFE) Zone A, V, A99



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

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Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party SPUR ENERGY PARTNERS	OGRID 328947	
Contact Name KENNY KIDD	Contact Telephone 575-616-5400	
Contact email KKIDD@SPUREPLLC.COM	Incident # (assigned by OCD)	
Contact mailing address 920 MEMORIAL CITY WAY, STE. 1000 HOUSTON, TEXAS 77024		

Location of Release Source

Latitude <u>32.8544502</u>

Longitude <u>-104.0433884</u>

NAD 83 in decimal degrees to 5 decimal places)

Site Name SABER FEDERAL #1 SWD	Site Type OIL& GAS	
Date Release Discovered 2/6/2020	API# (if applicable) 30-015-27882	

Unit Letter	Section	Township	Range	County	
В	11	178	29E	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)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 7bbls	Volume Recovered (bbls) 3.5bbls
	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		

The discharge line off of the water pump had a subsurface water leak, which was released onto location and approximately one bbl of fluid went into the pasture area.

orm C-141	State of New Mexico	Incident ID	
ge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible part	y consider this a major release?	
elease as defined by 19.15.29.7(A) NMAC?			
Yes 🛛 No			
f YES, was immediate n	otice given to the OCD? By whom? To whom? Who	en and by what means (phone, email, etc	c)?
	Initial Response	e	
The responsible	party must undertake the following actions immediately unless they		injury
\boxtimes The source of the rele	ease has been stopped.		
The impacted area ha	s been secured to protect human health and the enviro	onment.	
	ave been contained via the use of berms or dikes, abso		c
	ecoverable materials have been removed and managed	•	3.
		r appropriately.	
I all the actions described	d above have <u>not</u> been undertaken, explain why:		
has begun, please attach	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts hav at area (see $19.15.29.11(A)(5)(a)$ NMAC), please attac	ve been successfully completed or if the	e release occurred
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my l required to report and/or file certain release notifications an nent. The acceptance of a C-141 report by the OCD does no ate and remediate contamination that pose a threat to ground f a C-141 report does not relieve the operator of responsibility	d perform corrective actions for releases wh ot relieve the operator of liability should thei dwater, surface water, human health or the er	ich may endanger ir operations have nvironment. In
Printed Name: Natalie (-
Signature:	hi Gladden Date: 2	2/7/2020	
email: <u>ngladden@hungr</u>	y-horse.com Telephone: <u>575-390-639</u>	7	
DCD Only			
Received by:	Date:		

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	NRM2004833416
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (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

 \square Depth to water determination

- Determination of water sources and significant watercourses within ¹/₂-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

Received by OCD: 7/3/2023 9:47:3 Form C-141	³³ AM State of New Mexico		Incident ID	Page 23 of 65
Page 2	Oil Conservation Division		District RP	INKIVI2004855410
			Facility ID	
			Application ID	
plan. That plan must include the es and methods, anticipated timelines in 19.15.29.12 NMAC, however, use of I hereby certify that the information generations all operators are required public health or the environment. The failed to adequately investigate and readdition, OCD acceptance of a C-141 and/or regulations.	es not include completed efforts at rer timated volume of material to be rer for beginning and completing the rer of the table is modified by site- and r given above is true and complete to the b to report and/or file certain release notif te acceptance of a C-141 report by the O emediate contamination that pose a three I report does not relieve the operator of r	mediated, the propose mediation. The closur release-specific param post of my knowledge ar fications and perform co CD does not relieve the at to groundwater, surface	d remediation technic re criteria for a release eters. Ind understand that purs rrective actions for rele operator of liability sh ce water, human health	ique, proposed sampling plan se are contained in Table 1 of uant to OCD rules and eases which may endanger ould their operations have or the environment. In
Printed Name: Kathy Purvis.		Title: HSE Coordina	ator	
Signature: <u>Katherine Pu</u>	invis	Date: 7/3/23		
email: <u>katherine.purvis@spurene</u>	rgy.com	Telephone: 575-44	1-8619	
OCD Only				
Received by: <u>Shelly Wells</u>		Date: <u>7/3/20</u>	23	

Received by OCD: 7/3/2023 9:47:33 AM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	NRM2004833416	
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. Title: HSE Coordinator Printed Name: Kathy Purvis. Signature: Katherine Purvis Date: 7/3/23 email: katherine.purvis@spurenergy.com Telephone: 575-441-8619 **OCD Only** Received by: <u>Shelly Wells</u> Date: 7/3/2023 Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Michael Buchanan 07/31/2023 Date:

Page 3



Appendix D:

Email Notification

Photographic Documentation

Subject: Saber Fed SWD 1

Date: Wednesday, May 3, 2023 at 1:02:05 PM Central Daylight Time

From: Angel Pena

To: Bratcher, Michael, EMNRD, Chris Jones, Hamlet, Robert, EMNRD, Harimon, Jocelyn, EMNRD, Nobui, Jennifer, EMNRD

To All,

This is to inform you we will be obtaining additional confirmation samples at the Saber Fed SWD 1 on 5-08-23 at approximately 8 am.

Thank You,

Angel O. Peña

Field supervisor

1601 N. Turner Ste. 500

Hobbs, NM 88240

angel@paragonenvironmental.net

575-605-0773



Photographic Documentation

Before Remediation







Photographic Documentation

During Remediation











Photographic Documentation

Post Remediation







Appendix E:

Laboratory Results



August 26, 2022

CHRIS JONES PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS, NM 88242

RE: SABER FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 08/25/22 8:10.

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 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 1 0-6" (H223902-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	QM-07, QR-03
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	95.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 1 1' (H223902-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	91.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.0	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 1 2' (H223902-03)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	96.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 1 3' REFUSAL (H223902-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	79.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	80.8	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 2 0-6" (H223902-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	91.0	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	96.1	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 2 1' (H223902-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	84.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.1	% 46.3-17	8						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 2 2' (H223902-07)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	86.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.0	% 46.3-17	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 2 3' (H223902-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	85.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.2	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 2 4' (H223902-09)

BTEX 8021B	mg,	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	1.88	93.9	2.00	2.24	
Toluene*	<0.050	0.050	08/25/2022	ND	1.84	92.0	2.00	0.636	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	1.80	90.1	2.00	2.50	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	5.57	92.8	6.00	1.49	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	84.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 3 0-6" (H223902-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	90.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.1	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 3 1' (H223902-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	84.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 3 2' (H223902-12)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	82.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.0	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 3 3' REFUSAL (H223902-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.3	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 4 0-6" (H223902-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.5	% 46.3-17	8						

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5002 CARRAIGE RD
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Fax To:

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 4 1' (H223902-15)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1940	16.0	08/25/2022	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	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	76.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.6	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 4 2' (H223902-16)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/25/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	85.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	89.2	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 4 3' REFUSAL (H223902-17)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	88.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.5	% 46.3-17	8						

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5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 5 0-6" (H223902-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	84.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.4	% 46.3-17	8						

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5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 5 1' (H223902-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	08/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	215	108	200	0.286	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	227	114	200	0.299	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.8	% 46.3-17	8						

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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 5 2' (H223902-20)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/25/2022	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	08/25/2022	ND	207	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	203	101	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	96.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 5 3' (H223902-21)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	207	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	203	101	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	<i>99.7</i>	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/25/2022	Sampling Date:	08/23/2022
Reported:	08/26/2022	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	SPUR ENERGY	Sample Received By:	Tamara Oldaker
Project Location:	32.8544502,-104.0433884		

Sample ID: S - 5 4' (H223902-22)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2022	ND	2.10	105	2.00	9.35	
Toluene*	<0.050	0.050	08/25/2022	ND	2.04	102	2.00	9.68	
Ethylbenzene*	<0.050	0.050	08/25/2022	ND	2.00	99.9	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/25/2022	ND	6.19	103	6.00	9.32	
Total BTEX	<0.300	0.300	08/25/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/25/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2022	ND	207	103	200	1.25	
DRO >C10-C28*	<10.0	10.0	08/25/2022	ND	203	101	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	08/25/2022	ND					
Surrogate: 1-Chlorooctane	92.2	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	96.7	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
HDSP-1	Sample container had headspace. Results may be biased low.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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May 15, 2023

CHRIS JONES PARAGON ENVIROMENTAL 5002 CARRAIGE RD HOBBS, NM 88242

RE: SABER FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 05/10/23 16:20.

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 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/10/2023	Sampling Date:	05/08/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPRU ENERGY - EDDY CO		

Sample ID: SSW - 1 (H232342-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/12/2023	ND	400	100	400	3.92	

Sample ID: ESW - 1 (H232342-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/12/2023	ND	400	100	400	3.92	

Sample ID: ESW - 2 (H232342-03)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	05/12/2023	ND	400	100	400	3.92	

Sample ID: NSW - 1 (H232342-04)

Chloride, SM4500Cl-B	mg,	g/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2023	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/10/2023	Sampling Date:	05/08/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPRU ENERGY - EDDY CO		

Sample ID: WSW - 1 (H232342-05)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: WSW - 2 (H232342-06)

Chloride, SM4500Cl-B	mg/	kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 1 5' (H232342-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 2 5' (H232342-08)

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	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 3 5' (H232342-09)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2023	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/10/2023	Sampling Date:	05/08/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	SABER FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPRU ENERGY - EDDY CO		

Sample ID: S - 4 5' (H232342-10)

Chloride, SM4500Cl-B	mg,	ng/kg Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 5 5' (H232342-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 6 5' (H232342-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 7 5' (H232342-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/12/2023	ND	432	108	400	0.00	

Sample ID: S - 8 5' (H232342-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/12/2023	ND	432	108	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

575) 393-2326 FAX (575) 393-2476



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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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

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	235448
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
michael.buchanan	Spur Energy Partners' deferral request to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. Spur Energy does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are identified on the site map as S-1, S-2, S-3, S-4 and S-5. The areas have been delineated and documented in the report. Currently, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. Please provide all necessary notifications to BLM.	7/31/2023

CONDITIONS

Action 235448

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