

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	NRM2023854921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Spur Energy Partners LLC	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 Suite 1000 Houston, TX 77024	

Location of Release Source

Latitude 32.636384 Longitude -104.478333 (location of source)
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Ranch 22 #014H	Site Type: Oil Production Battery
Date Release Discovered: August 22, 2020	API# (if applicable) 30-015-45695

Unit Letter	Section	Township	Range	County
D	27	19S	25E	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) 6 bbls	Volume Recovered (bbls) 3bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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:

A welded 4" line developed a pin hole from corrosion, causing a release of mixed oil and water. All fluid remained inside the containment. A hydro vac truck was dispatched and recovered approximately 3 bbls of fluid.

Form C-141

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was provided by Kenny Kidd of Spur Energy via email to the BLM, and Victoria Venegas with the NMOCD	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Pons</u> Title: <u>Project Manager</u> Signature: <u>Rebecca Pons</u> <small>Digitally signed by Rebecca Pons DN: cn=Rebecca Pons, o=Taloni LP, email=Rebecca.Pons@taloni-lp.com, c=US Date: 2020.08.25 09:52:19 -0500</small> email: <u>Rpons@taloni-lp.com</u>	Date: <u>8/25/2020</u> Telephone: <u>575-441-0980</u>
OCD Only Received by: <u>Ramona Marcus</u> Date: <u>8/25/2020</u>	

Incident ID	NRM2023854921
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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>60</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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Oil Conservation Division

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Printed Name: Brandon Sinclair

**Brandon
Sinclair**Digitally signed by Brandon Sinclair
DN: cn=Brandon Sinclair, o=Talon
LPE, ou=Environmental,
email=bsinclair@talonlpe.com,
c=US
Date: 2021.03.12 12:08:02 -0700

Title: Environmental Project Manager

Signature: _____

Date: 2-4-2021

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Incident ID	NRM2023854921
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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: Brandon Sinclair

Brandon
SinclairDigitally signed by Brandon Sinclair
DN: cn=Brandon Sinclair, o=Talon
LPE, ou=Environmental,
email=bsinclair@talonlpe.com,
c=US
Date: 2021.03.12 12:08:22 -0700

Title: Environmental Project Manager

Signature: _____

Date: 2-4-2021

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD OnlyReceived by: Chad Hensley Date: 04/01/2021☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Chad Hensley Date: 04/01/2021

talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan

Ross Ranch 22 #014H
Eddy County, New Mexico
API # 30-015-45695, NRM2023854921

Prepared For:

Spur Energy Partners LLC
920 Memorial City Way Suite 1000
Houston, TX 77024

Prepared By:

TALON/LPE
408 West Texas Avenue
Artesia, NM 88210

March 12, 2021

Mr. Jim Amos
Bureau of Land Management
620 East Green Street
Carlsbad, NM 88220

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Ross Ranch 22 #014H
Eddy County, New Mexico
API # 30-015-45695, NRM2023854921

Dear Mr. Amos & Mr. Bratcher,

Spur Energy Partners LLC (Spur) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

The Ross Ranch 22 #014H is located approximately fifteen (15) miles southwest of Artesia, New Mexico. The legal location for this release is Unit Letter D, Section 27, Township 19 South and Range 25 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.636389 North and -104.478333 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reagan loam, 0 to 3 percent slopes. See [Appendix II](#) for referenced soil data. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to lower Pleistocene in age and is comprised of loam derived from alluvium and/or eolian deposits. Drainage courses in this area are typically dry.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 60-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to Groundwater		60 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

As this release does not meet any of the above criteria, the closure criteria for this incident are as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On August 22, 2020, a mixture of crude oil (unknown volume) and produced water (6 barrels (bbls)) was released into the unlined, earthen containment surrounding the separator battery area. This occurred due to a breach in the welded 4-inch line which had corroded. The initial C-141 is attached in [Appendix III](#). A site map illustrating the affected area is presented in [Appendix I](#).

Site Assessment

On October 7, 2020, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Discrete surface soil samples were collected within and around the impacted area utilizing a hand auger. Further vertical delineation could not take place due to auger refusal as well as the proximity of infrastructure. Results from our sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix V](#).

Table 1: Soil Sample Analysis

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC			50 mg/kg	10 mg/kg	1,000 mg/kg			2,500 mg/kg	10,000 mg/kg
S-1	0 R	10/7/2020	ND	ND	63.6	13900	3390	17353.6	24000
S-2	0 R	10/7/2020	ND	ND	ND	9730	3350	13080.0	1920
S-3	0 R	10/7/2020	ND	ND	ND	17200	5410	22610.0	13600
S-4	0 R	10/7/2020	ND	ND	ND	42400	11300	53700.0	65600
S-5	0 R	10/7/2020	ND	ND	ND	13600	4750	18350.0	4480
S-6	0 R	10/7/2020	ND	ND	ND	53800	16900	70700.0	39600
S-7	0 R	10/7/2020	ND	ND	ND	34400	9770	44170.0	39600
S-8	0 R	10/7/2020	0.572	ND	103	36800	9800	46703.0	44800
BG-1	0	10/7/2020	ND	ND	ND	ND	ND	-	16
BG-2	0	10/7/2020	ND	ND	ND	ND	ND	-	80
BG-3	0	10/7/2020	ND	ND	ND	ND	ND	-	80
BG-4	0	10/7/2020	ND	ND	ND	ND	ND	-	48

ND= Analyte Not Detected

R= Hand Auger Refusal

Proposed Remedial Actions

- Excavation activities within the separator battery will be hand-excavated to a depth of 1.0-foot BGS in order to avoid compromising structural integrity.
- Vertical delineation of the impacted area will be addressed during remediation activities.
- Microblaze, a bioremediation agent, will then be spray-applied to the impacted area.
- Confirmation samples will be collected from the bottom and sidewalls of the excavation 90-days after the microblaze application in order to determine whether contaminant concentration is at that point below NMOCD closure criteria. Should it be determined that concentrations are still in excess of NMOCD closure criteria, we will be requesting a deferral of remediation due to contamination being directly under and around production equipment, the remediation of which would necessitate a major facility deconstruction.
- The excavated area will be backfilled with new caliche.
- The excavated material (approximately 75 yards) will be transported to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- Remedial actions will commence within 14-days of client authorization to proceed.
- A final closure report documenting the remedial actions performed and a Final C-141 will be provided to the NMOCD District II Office.

Closure

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Brandon Sinclair
Project Manager

David J. Adkins
Regional Manager

Attachments:

Appendix I Site Maps
Appendix II Soil Boring Log, Groundwater & Soil Data, FEMA Flood Map
Appendix III C-141 Forms
Appendix IV Photographic Documentation
Appendix V Laboratory Data





APPENDIX I

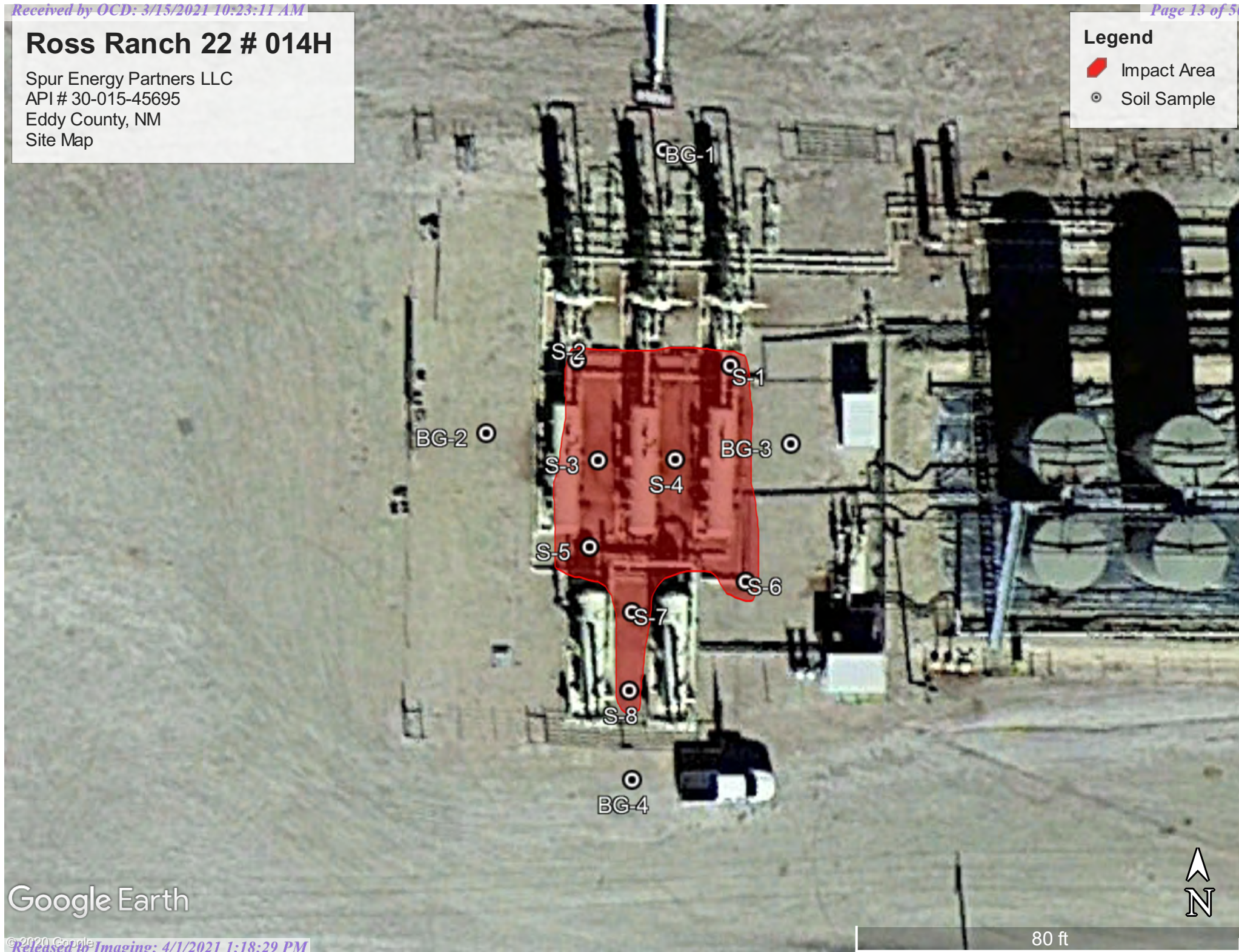
SITE MAPS

Ross Ranch 22 # 014H

Spur Energy Partners LLC
API # 30-015-45695
Eddy County, NM
Site Map

Legend

-  Impact Area
-  Soil Sample



Google Earth

Ross Ranch 22 # 014H

Spur Energy Partners LLC
API # 30-015-45695
Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium

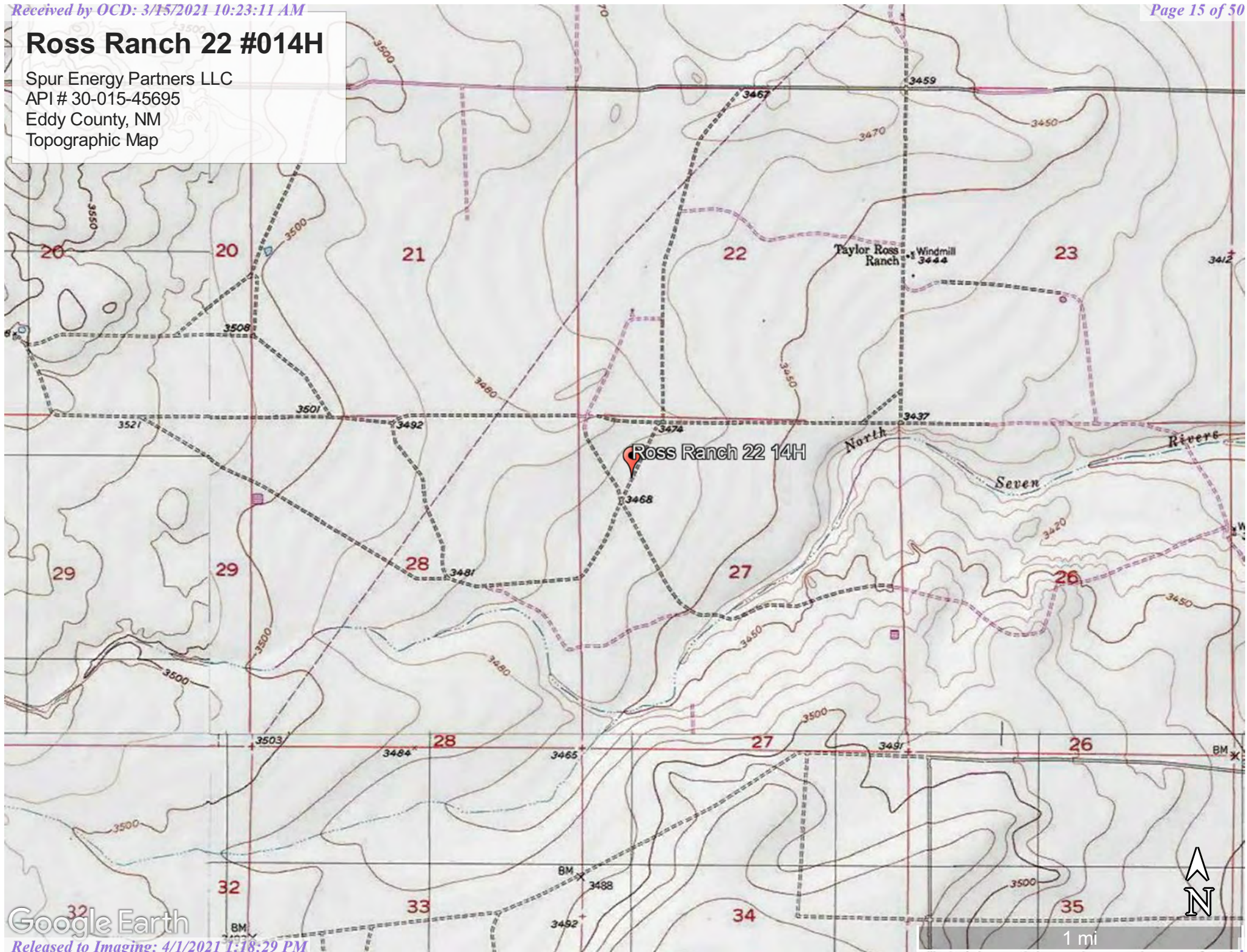
Ross Ranch 22 14H

Google Earth



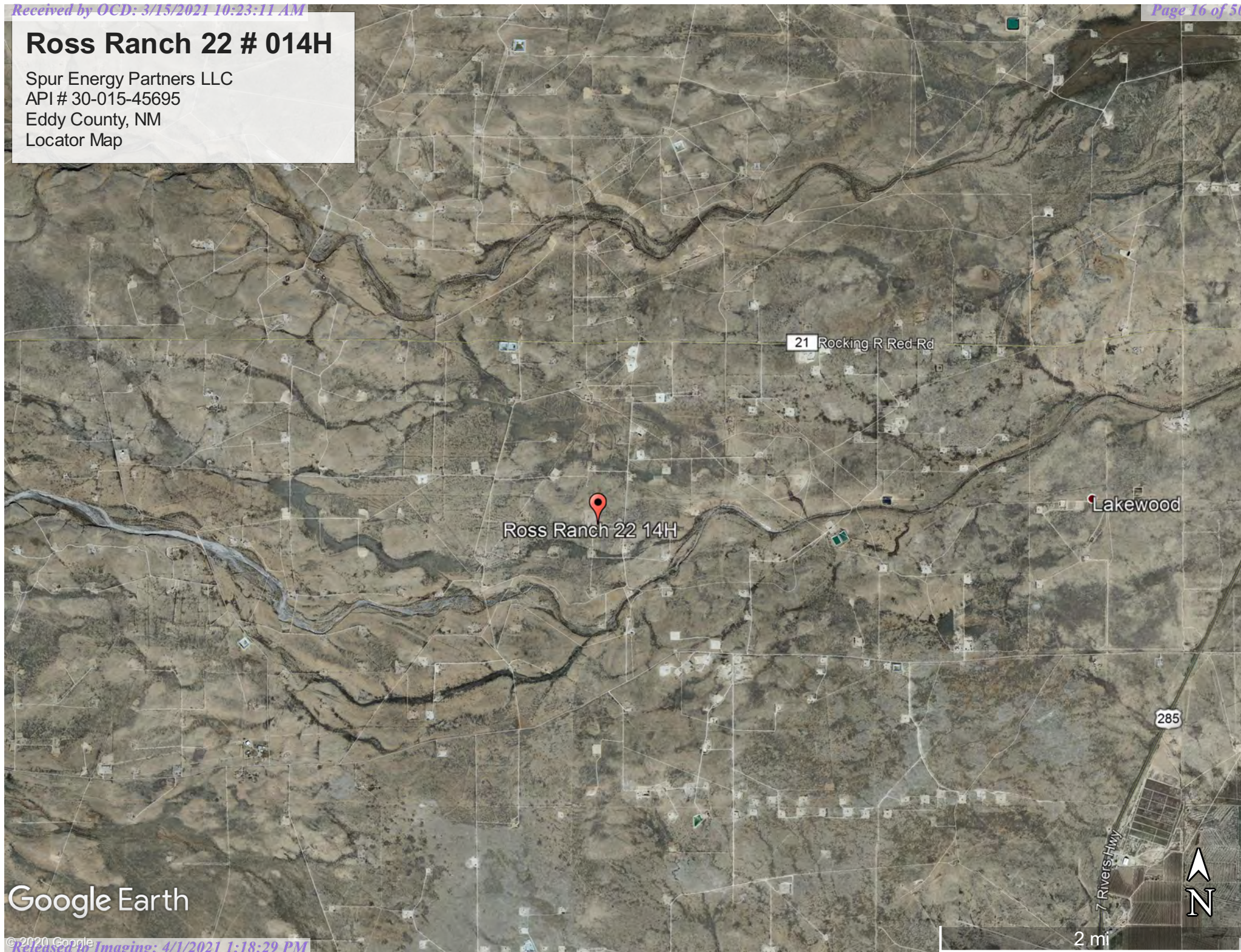
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Spur Energy Partners LLC
API # 30-015-45695
Eddy County, NM
Topographic Map



Ross Ranch 22 # 014H

Spur Energy Partners LLC
API # 30-015-45695
Eddy County, NM
Locator Map



Google Earth



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD MAP



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 03304	RA	ED		1	27	19S	25E			549081	3610973*	195	130	60	70
RA 08986	RA	ED		1	3	3	22	19S	25E	548825	3611507	422	320	220	100
RA 02909	RA	ED		1	3	22	19S	25E		548864	3611989*	893	188	130	58
RA 02958	RA	ED		1	4	34	19S	25E		549681	3608740*	2474	450		
RA 03018	RA	ED		3	2	4	34	19S	25E	549987	3608639*	2676	530		

Average Depth to Water: **136 feet**

Minimum Depth: **60 feet**

Maximum Depth: **220 feet**

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 548931.12

Northing (Y): 3611098.29

Radius: 3000

*UTM location was derived from PLSS - see Help

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

12/30/20 9:02 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Map Unit Description: Reagan loam, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c

Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

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: Alluvial fans, fan remnants

Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 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 capacity: 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

Map Unit Description: Reagan loam, 0 to 3 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 16, Jun 8, 2020

National Flood Hazard Layer FIRMette



104°29'1"W 32°38'26"N



Legend

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

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



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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/29/2021 at 2:00 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 4/1/2021 1:18:29 PM

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



APPENDIX III

C-141 FORMS

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

State of New Mexico
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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2023854921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Spur Energy Partners LLC	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 Suite 1000 Houston, TX 77024	

Location of Release Source

Latitude 32.636384 Longitude -104.478333 (location of source)
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ross Ranch 22 #014H	Site Type: Oil Production Battery
Date Release Discovered: August 22, 2020	API# (if applicable) 30-015-45695

Unit Letter	Section	Township	Range	County
D	27	19S	25E	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) 6 bbls	Volume Recovered (bbls) 3bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" 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:

A welded 4" line developed a pin hole from corrosion, causing a release of mixed oil and water. All fluid remained inside the containment. A hydro vac truck was dispatched and recovered approximately 3 bbls of fluid.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM2023854921
District-RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was provided by Kenny Kidd of Spur Energy via email to the BLM, and Victoria Venegas with the NMOCD	

Initial Response

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

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

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

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

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

Printed Name: Rebecca Pons Title: Project Manager

Signature: Rebecca Pons Date: 8/25/2020

email: Rpons@talonlpe.com Telephone: 575-441-0980

OCD Only

Received by: Ramona Marcus Date: 8/25/2020

Incident ID	NRM2023854921
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?	_____ 60 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2023854921
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: Brandon Sinclair

Title: Environmental Project Manager

Signature: _____

Date: 2-4-2021

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____

Date: _____

Incident ID	NRM2023854921
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: Brandon Sinclair

Title: Environmental Project Manager

Signature: _____ Date: 2-4-2021

email: bsinclair@talonlpe.com

Telephone: 575-746-8768

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

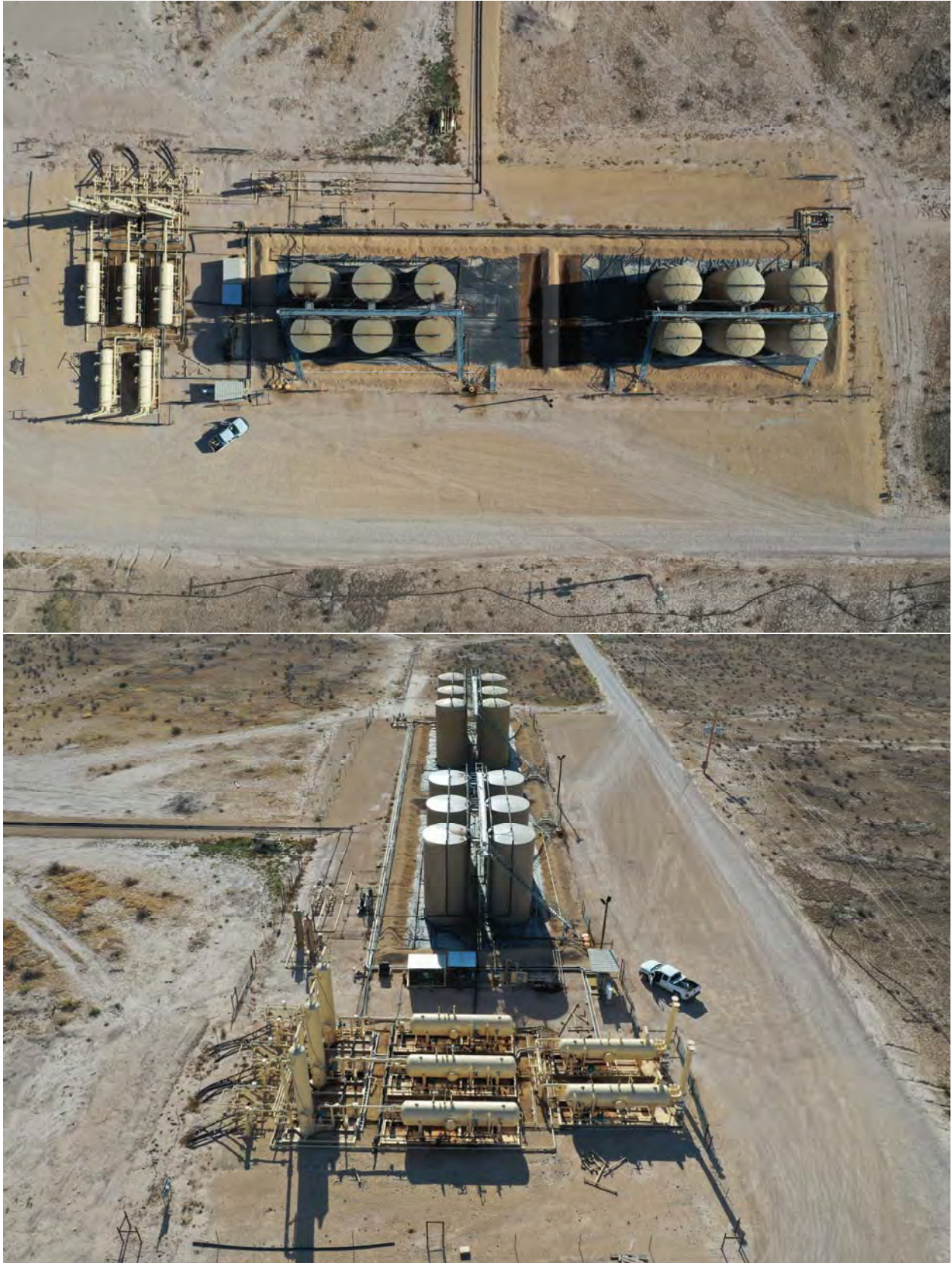
Signature: _____ Date: _____



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Ross Ranch 22 14H Assessment Photographs



Ross Ranch 22 14H Assessment Photographs



Ross Ranch 22 14H Assessment Photographs



Ross Ranch 22 14H Assessment Photographs





APPENDIX V

LABORATORY DATA



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

October 13, 2020

BRANDON SINCLAIR

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ROSS RANCH 22 #014H

Enclosed are the results of analyses for samples received by the laboratory on 10/08/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 1 O' R (H002684-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	0.259	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	63.6	50.0	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	13900	50.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	3390	50.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 519 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 2 O' R (H002684-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	9730	50.0	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	3350	50.0	10/09/2020	ND						

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 454 % 42.2-156

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 3 O' R (H002684-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	17200	100	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	5410	100	10/09/2020	ND						

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 695 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 4 O' R (H002684-04)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	0.061	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	0.064	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	65600	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	42400	100	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	11300	100	10/09/2020	ND					

Surrogate: 1-Chlorooctane 139 % 44.3-144

Surrogate: 1-Chlorooctadecane 1520 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 5 O' R (H002684-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	13600	50.0	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	4750	50.0	10/09/2020	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 572 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 6 O' R (H002684-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39600	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	53800	100	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	16900	100	10/09/2020	ND						

Surrogate: 1-Chlorooctane 133 % 44.3-144

Surrogate: 1-Chlorooctadecane 2080 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 10/08/2020
 Reported: 10/13/2020
 Project Name: ROSS RANCH 22 #014H
 Project Number: 702604.040.01
 Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 O' R (H002684-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39600	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	34400	100	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	9770	100	10/09/2020	ND						

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 1220 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: S - 8 O' R (H002684-08)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/12/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	0.156	0.050	10/12/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	0.416	0.150	10/12/2020	ND	6.08	101	6.00	7.87	
Total BTEX	0.572	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44800	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	103	100	10/09/2020	ND	227	113	200	2.09		
DRO >C10-C28*	36800	100	10/09/2020	ND	231	115	200	4.23		
EXT DRO >C28-C36	9800	100	10/09/2020	ND						

Surrogate: 1-Chlorooctane 157 % 44.3-144

Surrogate: 1-Chlorooctadecane 1250 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 10/08/2020
 Reported: 10/13/2020
 Project Name: ROSS RANCH 22 #014H
 Project Number: 702604.040.01
 Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1 0' (H002684-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23		
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51		
Total BTEx	<0.300	0.300	10/12/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 10/08/2020
 Reported: 10/13/2020
 Project Name: ROSS RANCH 22 #014H
 Project Number: 702604.040.01
 Project Location: SPUR ENERGY - EDDY CO NM

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 2 0' (H002684-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21		
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23		
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51		
Total BTEx	<0.300	0.300	10/12/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/12/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: BG - 3 (H002684-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEx	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/12/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	203	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	211	106	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Analytical Results For:

TALON LPE
 BRANDON SINCLAIR
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	10/08/2020	Sampling Date:	10/07/2020
Reported:	10/13/2020	Sampling Type:	Soil
Project Name:	ROSS RANCH 22 #014H	Sampling Condition:	Cool & Intact
Project Number:	702604.040.01	Sample Received By:	Tamara Oldaker
Project Location:	SPUR ENERGY - EDDY CO NM		

Sample ID: BG - 4 (H002684-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2020	ND	2.12	106	2.00	3.21	
Toluene*	<0.050	0.050	10/12/2020	ND	2.13	106	2.00	3.23	
Ethylbenzene*	<0.050	0.050	10/12/2020	ND	2.07	103	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/12/2020	ND	5.89	98.1	6.00	2.51	
Total BTEx	<0.300	0.300	10/12/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/12/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2020	ND	203	101	200	3.31	
DRO >C10-C28*	<10.0	10.0	10/12/2020	ND	211	106	200	5.55	
EXT DRO >C28-C36	<10.0	10.0	10/12/2020	ND					

Surrogate: 1-Chlorooctane 116 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TALON LPE		BILL TO		ANALYSIS REQUEST	
Project Manager: B. SINCCLAIR		P.O. #: 702604.040.01			
Address: 408 W. TEXAS AVE.		Company: B. SINCCLAIR			
City: ARTESIA		Attn: B. SINCCLAIR			
Phone #: 575-746-8768		Address:			
Fax #: 		City:			
Project #: 702604.040.01		State: NM		Zip: 88210	
Project Owner: SPUR ENERGY		City:			
Project Location: EDDY COUNTY, NM		State:		Zip:	
Sampler Name: MICHAEL COLLIER		Phone #:			
Fax #:					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX	PRESERV.	SAMPLING
		# CONTAINERS			
H002684	1 S-1 O'R	✓	GROUNDWATER		
	2 S-2 O'R	✓	WASTEWATER		
	3 S-3 O'R	✓	SOIL		
	4 S-4 O'R	✓	OIL		
	5 S-5 O'R	✓	SLUDGE		
	6 S-6 O'R	✓	OTHER :		
	7 S-7 O'R	✓	ACID/BASE:		
	8 S-8 O'R	✓	ICE / COOL		
	9 S-9 O'R	✓	OTHER :		
	10 S-10 O'R	✓			
DATE		TIME			
10-7-20		9:00	✓	BTEX	
		9:10	✓	TPH	
		9:20	✓	TOTAL CHLORIDES	
		9:30			
		9:40			
		9:50			
		10:00			
		10:10			
		10:20			
		10:30			
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Relinquished By: MBD		Date: 10-8-20	Received By: Michael Collier		
Time: 1415		Time: 			
Delivered By: (Circle One)		Sample Condition			
Sampler - UPS - Bus - Other: A.9.1 #113		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
		No <input type="checkbox"/> Yes <input type="checkbox"/>			
		No <input type="checkbox"/> Yes <input type="checkbox"/>			
		CHECKED BY: TD.			
		(Initials)			
		REMARKS: PL 1 of 2			
		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:			
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:			

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



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

[illegible]

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

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

CONDITIONS

Action 20758

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
TALON LPE	408 W Texas	329944	20758	C-141
	Artesia, NM88210			
OCD Reviewer	Condition			
chensley	None			