



March 4, 2020

NMOCD District 1

1625 N. French Drive

Hobbs, New Mexico 88240

Re: Closure Request

Ridgeway Arizona Oil Corp HCSAU #30

NMOCD Reference #: 1RP-5668 & 1RP-5680

To Whom It May Concern

RXSoil, Inc. is pleased to submit the closure request summarizing work done for the on-site remediation of treated produced water impacted soil for the above release, associated with the HCSAU #30 site located in Roosevelt County, New Mexico.

Sincerely,

A stylized, handwritten signature in black ink, appearing to read "Jace Caraway".

Jace Caraway  
Chief Operating Officer  
RXSoil, Inc.  
(940) 210-2051

A handwritten signature in black ink, appearing to read "Zach Robbins".

Zach Robbins  
Technical and Engineering Analyst  
RXSoil, Inc.  
(210) 400-7645

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## I. Introduction

On behalf of Ridgeway Arizona Oil Corp and PEDEVCO Corporation., RXSoil, Inc. ("RXSoil") has prepared this closure request that describes remediation of the releases of 1RP-5680 and 1RP-5668 associated with the HCSAU #30 site with API #30-041-10480.

The releases were reported to have both occurred in Unit Letter O, Section 34, Township 7S, Range 33E (see *Figure 1* for Vicinity Map) at coordinates (33.662951, -103.543786). It was reported that 15 barrels of produced water were released, and 6 barrels were recovered during the initial response for 1RP-5668. It was reported that 50 barrels of produced water were released, and 22 barrels were recovered during the initial response for 1RP-5680. Closure C-141s are listed in *Appendix A*.

## II. Site Assessment/Characterization

1. **Spill Map** – See *Figure 2*
2. **Depth to ground water** – Nearest water wells with data in the past 25 years (listed in *Appendix B*, shown in *Figure 3*) have reported depth to water of 143', 223' and 256'. This release did NOT occur within an area described by any of the line items listed in NMAC 19.15.29.12 that would change the characterization of ground water.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release (see *Figure 4*).
4. **Distance to nearest significant watercourse** – There are no significant watercourses within a half mile of the release (see *Figure 4*).
5. **Soil/waste characteristics** – The release was delineated horizontally and vertically before and during excavation. Excavation was guided by field data, testing soil samples until results showed chloride levels below 600 mg/kg, per 19.15.29.13.D.1. Sidewall and bottom samples are shown in *Figure 5*. Excavation went vertically and horizontally until clean soil was found (20,000 mg/kg at depths greater than 4' or 600 mg/kg in top 4'). Excavation went to a depth of 4' and 1' in areas shown in *Figure 5*. Results from these tests are summarized in *Appendix C* with the laboratory report shown in *Appendix F.1*. Not all contaminated soil was able to be safely removed from the spill area. Shown in *Figure 6*, digging stopped approximately 6' from the wellhead.

## III. Closure Reporting

1. **Scaled site and sampling diagram** – See *Figure 5* for excavation samples. See *Figure 7* for remediation samples
2. **Photographs of remediated site prior to backfill** – See *Appendix E* for a photograph of remediated site prior to backfill.
3. **Laboratory analyses of final sampling** - See *Appendix F* for laboratory reports summarized in *Appendix D* and *Appendix E*.
4. **Description of all remedial activities** – RXSoil's core process of on-site remediation was used to address the contamination. RXSoil constructed an above-ground treatment cell adjacent to the contaminated area (see *Figure 5* for placement). This cell was built to an approximate height of 4'. The cell was approximately 200' by 100'.

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

A 30-mil poly liner was installed on the bottom and sides of cells to contain treatment. A proprietary drainage and collection system was installed prior to filling the cells with contaminated soils.

Once all contaminated material was in the treatment cell, chemical treatment began. To confirm successful treatment, as previously agreed upon, confirmation samples were gathered at depth 36"-48" with one sample representing no more than 50 cubic yards as agreed upon in previous work. A grid pattern of 60 samples was collected. If a sample were to test above threshold, treatment continued in that area until the soil tested clean. 50% of the samples were then delivered on ice to Cardinal Laboratories in Hobbs, NM. See *Appendix D* for a summary table of these samples.

Sidewall and bottom samples were taken using a stainless-steel hand shovel while remediation samples were taken using a stainless-steel bucket auger. All tools were decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples were temporarily transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples were transferred to glass jars, supplied by an approved laboratory. The threads on all jars were wiped clean to allow an air-tight seal. Samples were transferred on ice to a third-party laboratory to ensure tests were completed within 14 days (as recommended in the EPA handbook).

All lab reports of sampling can be found in *Appendix F*.

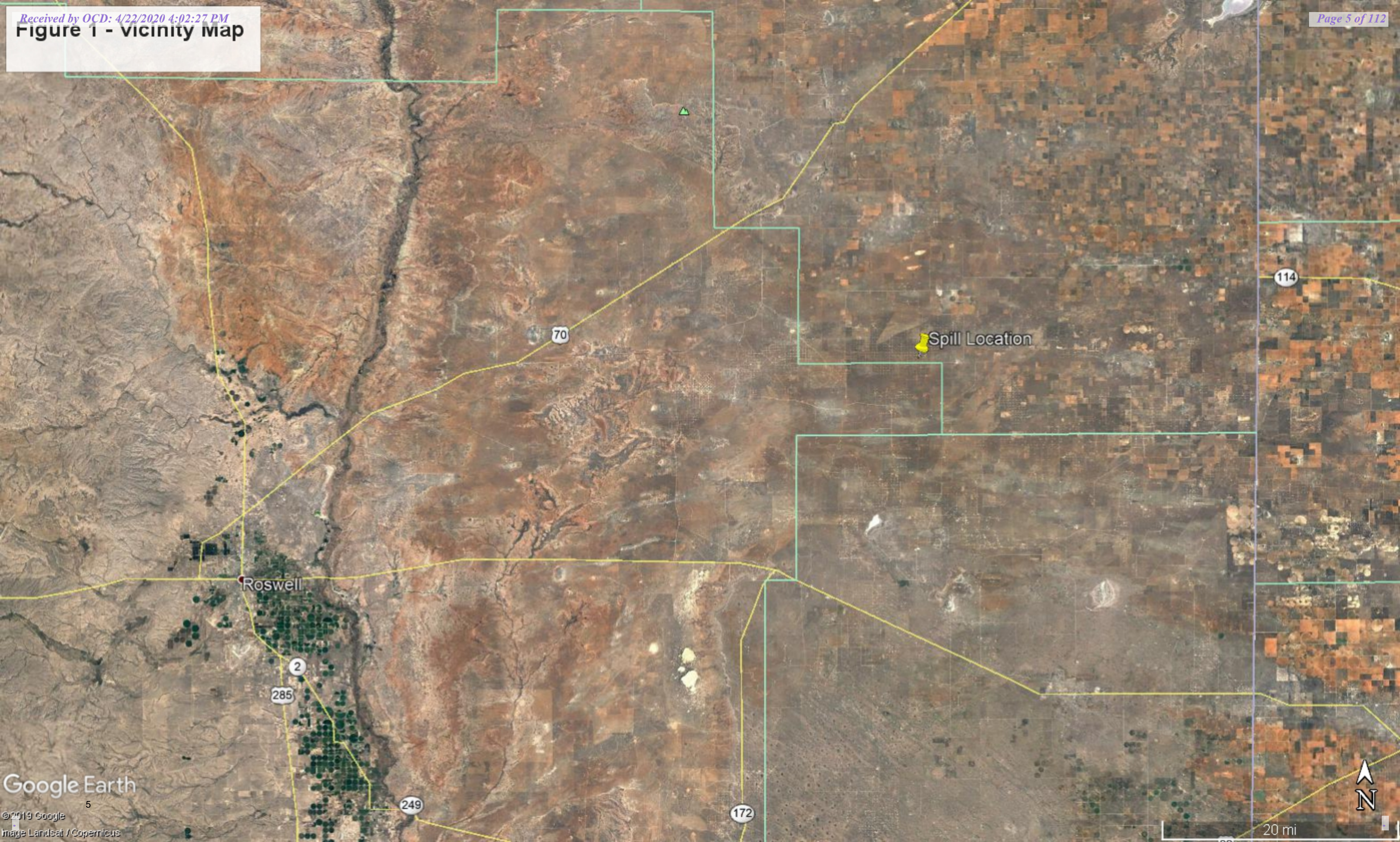
#### **IV. Restoration, Reclamation and Re-Vegetation**

Following confirmation samples, RXSoil placed the soil from the treatment cell back into the excavation area and removed all treatment infrastructure from the location for disposal. RXSoil drilled in a mixture of oats, saltbrush fourwing, triticale and western wheatgrass in all affected areas, using the DOT Zone 6 Seed List as a guide per previous SLO approval. RXSoil will continue to monitor this area and if deemed necessary, reseed in next growing season to encourage more growth.

On behalf of all parties, RXSoil is requesting no further action for this remediation project.



Figure 1 - vicinity map



Roswell

Spill Location

70

114

2

285

249

172





Figure 2. Spill Map

Legend

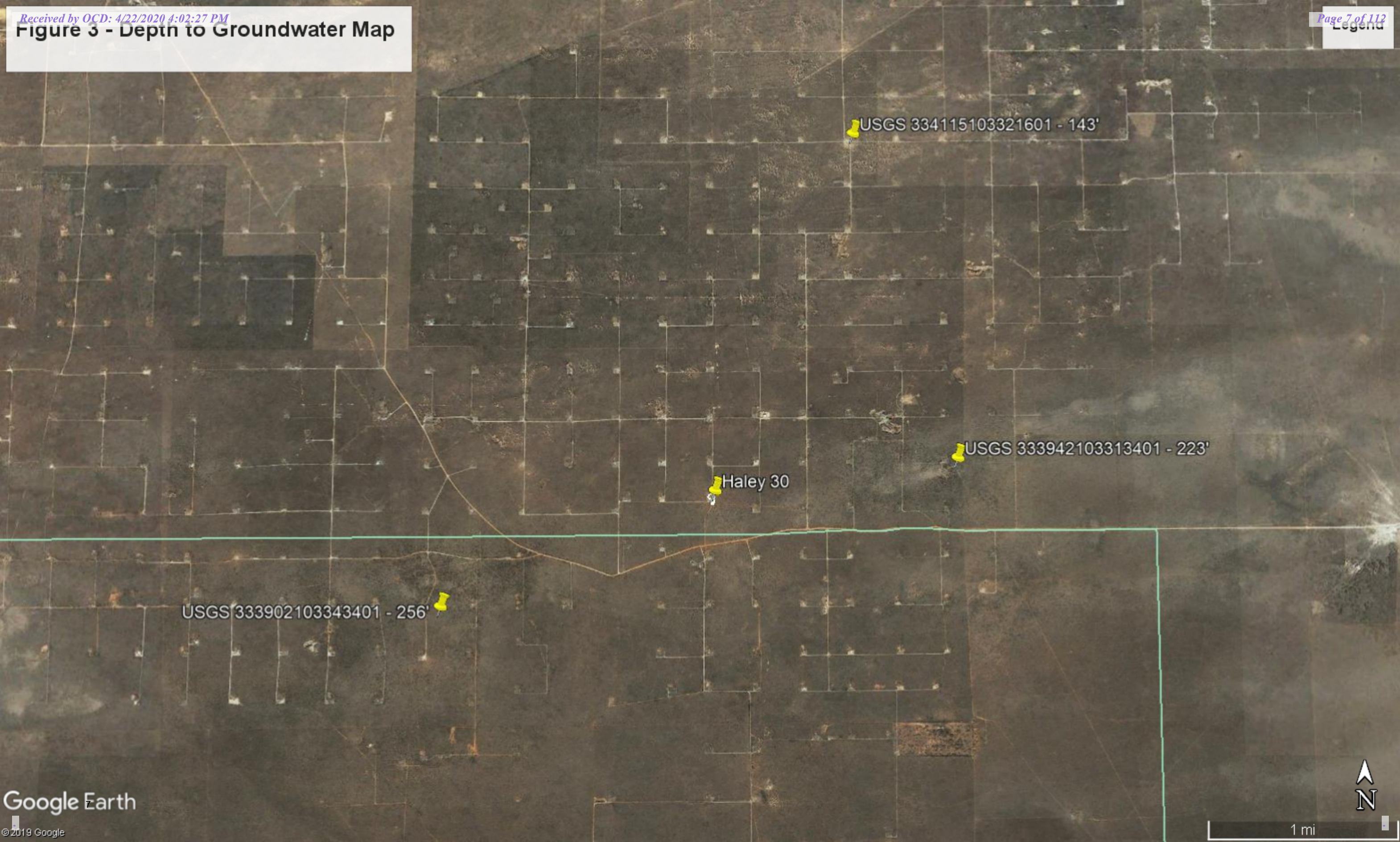
Coordinate Guide

GPS Outline





Figure 3 - Depth to Groundwater Map



USGS 334115103321601 - 143'

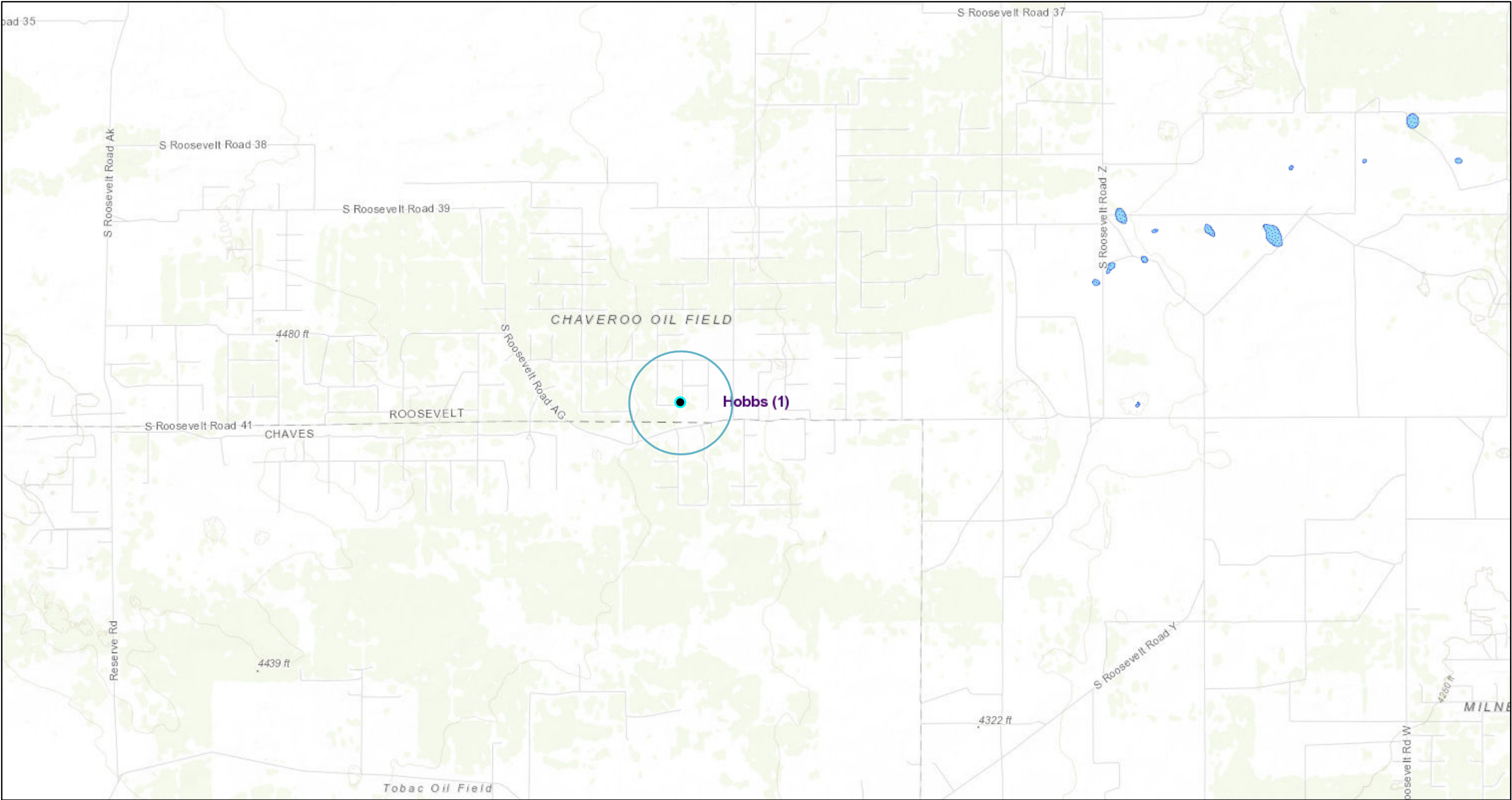
USGS 333942103313401 - 223'

Haley 30

USGS 333902103343401 - 256'

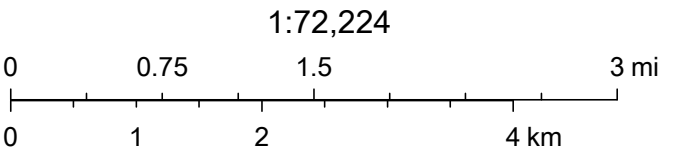


Figure 4 - Hydrology Map



1/23/2020, 11:58:53 AM

- Override 1
- OCD District Offices
- PLJV Probable Playas
- OCD Districts
- OSE Water-bodies
- OSE Streams



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD



Figure 5. Excavation Map

**Legend**

- 1' Excavation
- 4' Excavation
- Treatment Cell

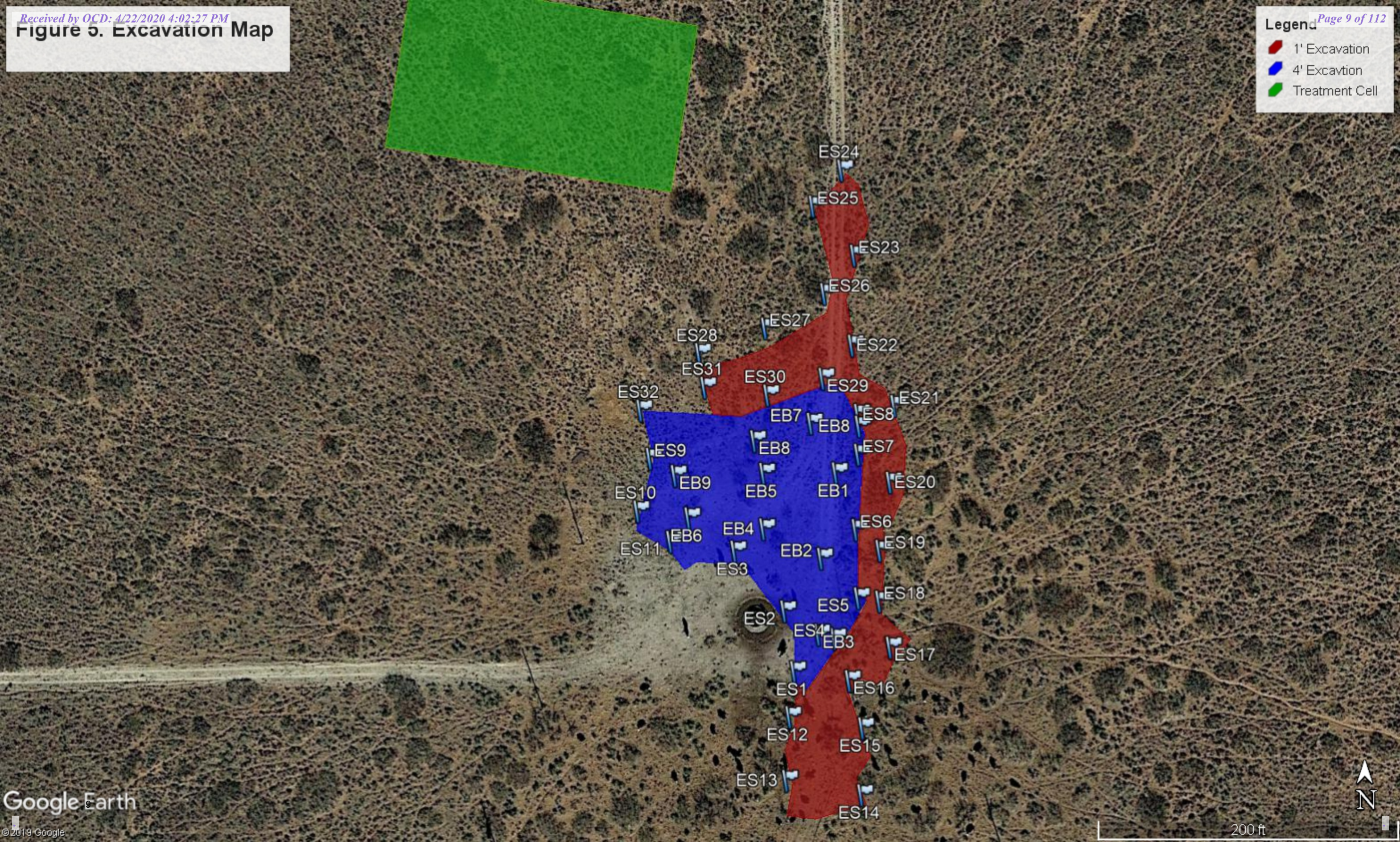
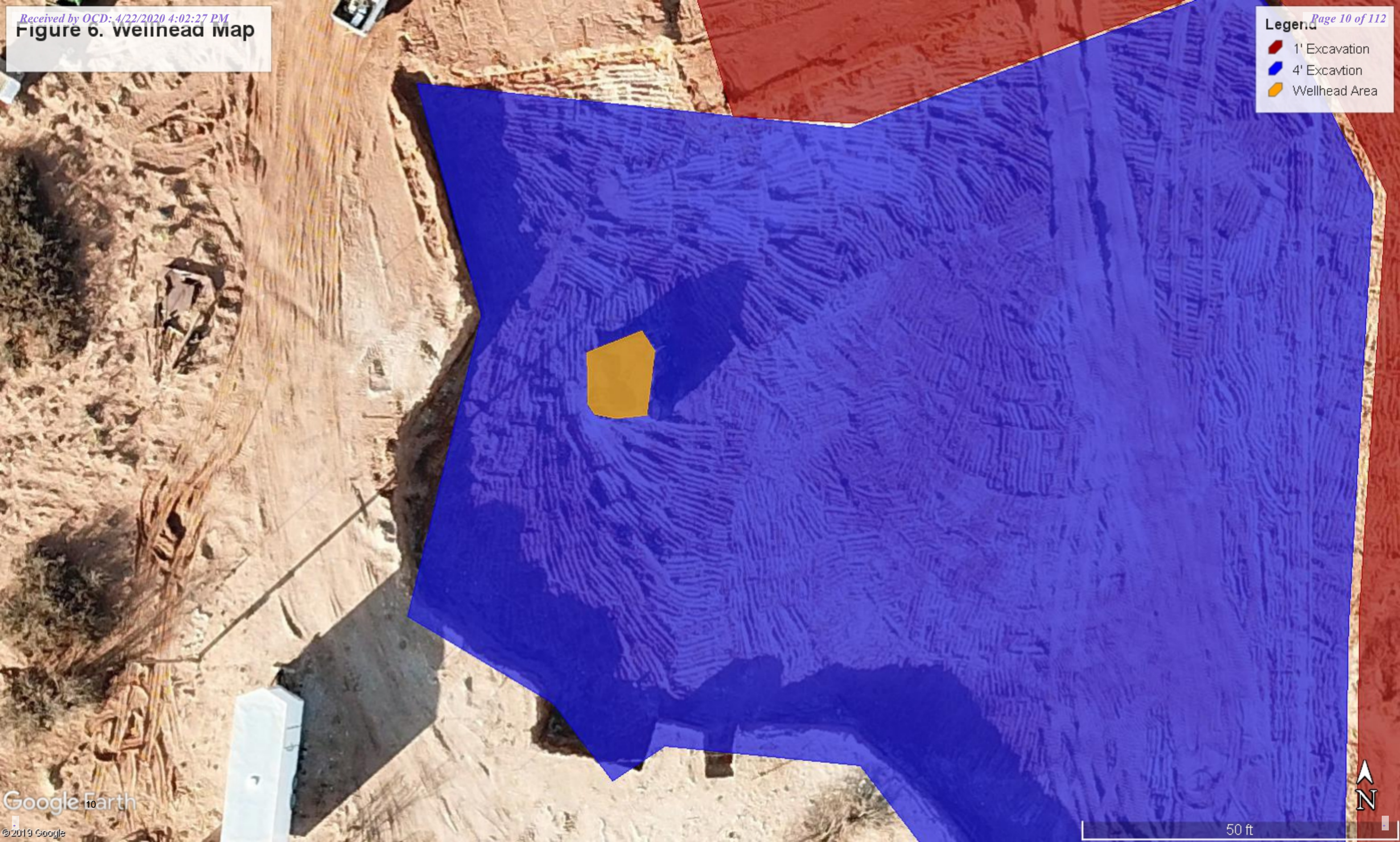




Figure 6. Wellhead map



**Legend**

- 1' Excavation
- 4' Excavation
- Wellhead Area



Figure 7. Treatment Cell Map

**Legend**

- Sample Point (48")
- Treatment Cell





**APPENDIX A.1**

**C-141**

**1RP-5668**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**



Incident ID	NRM1926049522
District RP	1RP-5668
Facility ID	
Application ID	pRM192046121


## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: William Boyd Title: Land & Regulatory Manager  
Signature:  Date: 3/4/2020  
email: wboyd@pedevco.com Telephone: (713) 574-7912

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **APPENDIX A.2**

**C-141**

**1RP-5680**

Incident ID	NRM1926654070
District RP	1RP-5680
Facility ID	fCH1903857157
Application ID	pRM1926653227

## Closure

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

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

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

☒ Description of remediation activities

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

Printed Name: William Boyd Title: Land & Regulatory Manager

Signature:  Date: 3/4/2020

email: wboyd@pedevco.com Telephone: (713) 574-7912

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

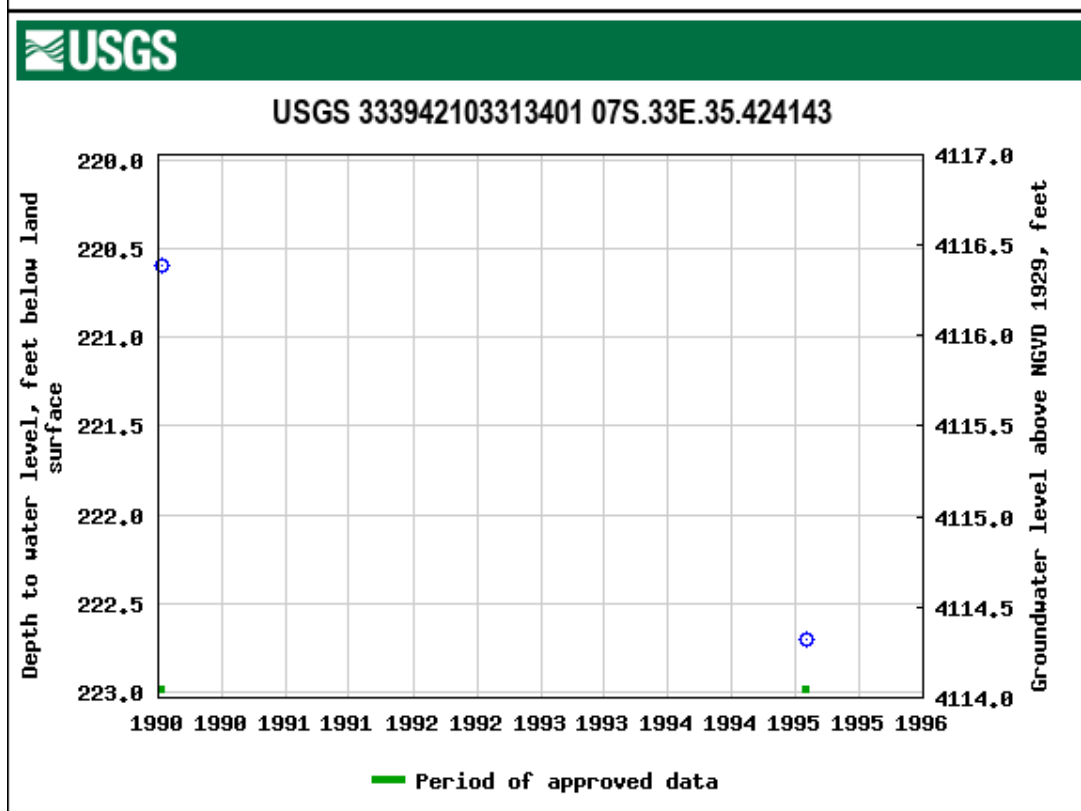
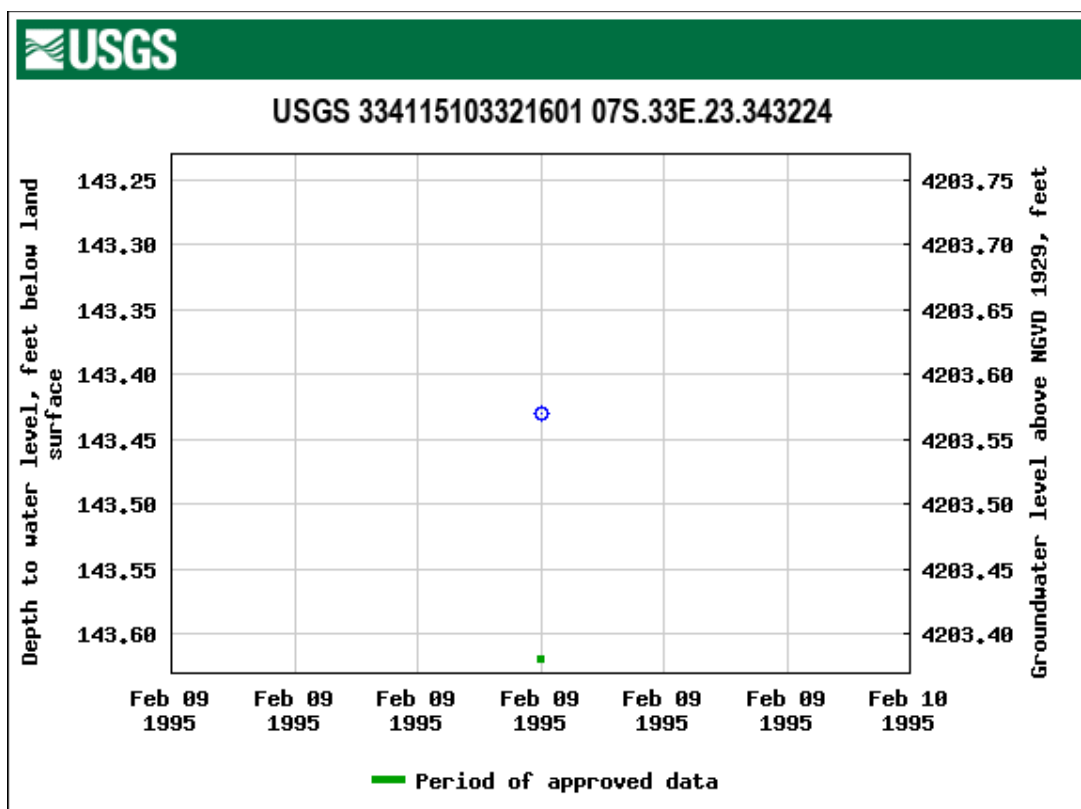
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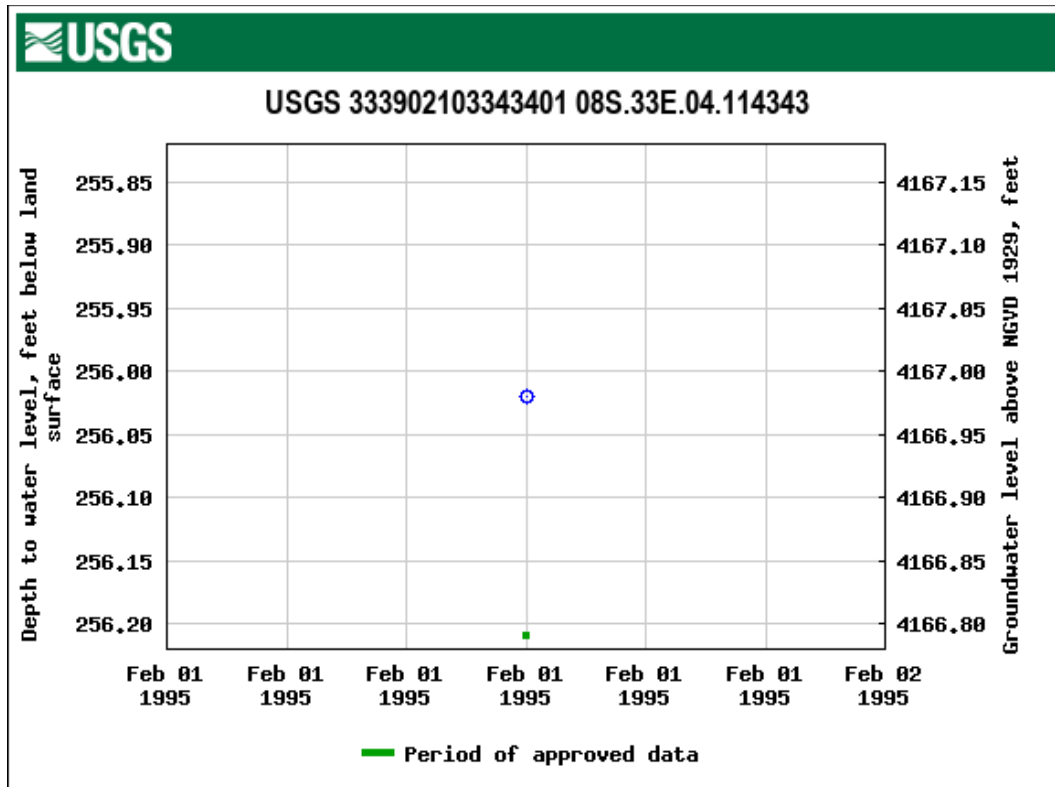
## **APPENDIX B**

### **DEPTH TO GROUNDWATER**

**RXSoil, Inc.**

**201 Main St. Ste. 1360, Fort Worth, TX 76102**





## **APPENDIX C**

### **DELINEATION SUMMARY TABLE**

Appendix C. Delineation Summary Table											
Sample Type	Sample Name	Depth (ft)	Sample Date	Chloride		BTEX (8021B)		TPH (8015M)			
				Field Screening	M4500	Benzene	Total BTEX	GRO	DRO	EXT DRO	C6-C35
Bottom	EB-1	4	11/20/2019	3500	3320	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-2	4	11/20/2019	316	880	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-3	4	11/20/2019	1944	2880	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-4	4	11/20/2019	4120	1710	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-5	4	11/20/2019	ND	32.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-6	4	11/20/2019	276	480	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-7	4	11/20/2019	316	320	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-8	4	11/20/2019	7940	9280	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Bottom	EB-9	4	11/20/2019	580	656	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-1	4	11/20/2019	ND	48	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-2	4	11/20/2019	ND	16	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-3	4	11/20/2019	180	192	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-4	4	11/20/2019	ND	48	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-5	4	11/20/2019	ND	48	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-6	4	11/20/2019	ND	16	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-7	4	11/20/2019	ND	64	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-8	4	11/20/2019	ND	16	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-9	4	11/20/2019	212	240	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-10	4	11/20/2019	ND	32	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-11	4	11/20/2019	128	64	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-12	1	11/20/2019	ND	16	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-13	1	11/20/2019	ND	16	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-14	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-15	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-16	1	11/20/2019	ND	80	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-17	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-18	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-19	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-20	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-21	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-22	1	11/20/2019	ND	32	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-23	1	11/20/2019	352	224	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-24	1	11/20/2019	ND	320	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-25	1	11/20/2019	ND	<16.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-26	1	11/20/2019	ND	112	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-27	1	11/20/2019	192	544	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-28	1	11/20/2019	ND	96	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-29	4	11/20/2019	128	112	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-30	4	11/20/2019	ND	112	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-31	4	11/20/2019	ND	272	<0.050	<0.300	<10.0	<10.0	<10.0	<30
Sidewall	ES-32	4	11/20/2019	ND	32	<0.050	<0.300	<10.0	<10.0	<10.0	<30
NMOCD Thresholds - Top 4'				600		10	50				2500
NMOCD Thresholds - GW >100'				20000							

**BOLD** results indicate results above RRAL

- indicates tests were not ran

All units in mg/kg unless otherwise noted



## APPENDIX D

### REMEDIATION SAMPLING SUMMARY TABLE

Appendix D. Remediation Sampling Summary Table											
Row	Column	Depth (ft)	Sample Date	Chloride		BTEX (8021B)		TPH (8015M)			
				Field Screening	M4500	Benzene	Total BTEX	GRO	DRO	EXT DRO	C6-C35
A	1	4	1/3/2020	172	176	<0.050	<0.300	<10.0	<10.0	<10.0	<30
A	2	4	1/3/2020	148	-	-	-	-	-	-	-
A	3	4	1/3/2020	ND	160	<0.050	<0.300	<10.0	<10.0	<10.0	<30
A	4	4	1/3/2020	172	-	-	-	-	-	-	-
A	5	4	1/3/2020	316	208	<0.050	<0.300	<10.0	<10.0	<10.0	<30
B	1	4	1/3/2020	172	-	-	-	-	-	-	-
B	2	4	1/3/2020	ND	144	<0.050	<0.300	<10.0	<10.0	<10.0	<30
B	3	4	1/3/2020	ND	-	-	-	-	-	-	-
B	4	4	1/3/2020	148	160	<0.050	<0.300	<10.0	<10.0	<10.0	<30
B	5	4	1/3/2020	ND	-	-	-	-	-	-	-
C	1	4	1/7/2020	316	336	<0.050	<0.300	<10.0	<10.0	<10.0	<30
C	2	4	1/3/2020	ND	64	<0.050	<0.300	<10.0	<10.0	<10.0	<30
C	3	4	1/3/2020	284	240	<0.050	<0.300	<10.0	<10.0	<10.0	<30
C	4	4	1/7/2020	ND	-	-	-	-	-	-	-
C	5	4	1/7/2020	204	-	-	-	-	-	-	-
D	1	4	1/7/2020	316	-	-	-	-	-	-	-
D	2	4	1/7/2020	316	400	<0.050	<0.300	<10.0	<10.0	<10.0	<30
D	3	4	1/7/2020	316	-	-	-	-	-	-	-
D	4	4	1/3/2020	196	272	<0.050	<0.300	<10.0	<10.0	<10.0	<30
D	5	4	1/3/2020	172	-	-	-	-	-	-	-
E	1	4	1/7/2020	392	144	<0.050	<0.300	<10.0	<10.0	<10.0	<30
E	2	4	1/7/2020	196	-	-	-	-	-	-	-
E	3	4	1/3/2020	124	112	<0.050	<0.300	<10.0	<10.0	<10.0	<30
E	4	4	1/7/2020	196	-	-	-	-	-	-	-
E	5	4	1/7/2020	ND	400	<0.050	<0.300	<10.0	<10.0	<10.0	<30
F	1	4	1/3/2020	ND	-	-	-	-	-	-	-
F	2	4	1/3/2020	172	240	<0.050	<0.300	<10.0	<10.0	<10.0	<30
<b>NMOC thresholds - Remediation</b>				<b>600</b>		<b>10</b>	<b>50</b>				<b>100</b>

**BOLD** results indicate results above RRAL

- indicates tests were not ran

All units in mg/kg unless otherwise noted

Appendix D. Remediation Sampling Summary Table											
Row	Column	Depth (ft)	Sample Date	Chloride		BTEX (8021B)		TPH (8015M)			
				Field Screening	M4500	Benzene	Total BTEX	GRO	DRO	EXT DRO	C6-C35
F	3	4	1/7/2020	196	-	-	-	-	-	-	-
F	4	4	1/7/2020	316	400	<0.050	<0.300	<10.0	22.9	<10.0	22.9
F	5	4	1/7/2020	284	-	-	-	-	-	-	-
G	1	4	1/7/2020	284	336	<0.050	<0.300	<10.0	<10.0	<10.0	<30
G	2	4	1/7/2020	316	384	<0.050	<0.300	<10.0	<10.0	<10.0	<30
G	3	4	1/3/2020	284	272	<0.050	<0.300	<10.0	<10.0	<10.0	<30
G	4	4	1/3/2020	ND	-	-	-	-	-	-	-
G	5	4	1/3/2020	ND	-	-	-	-	-	-	-
H	1	4	1/3/2020	ND	-	-	-	-	-	-	-
H	2	4	1/7/2020	316	320	<0.050	<0.300	<10.0	11.7	<10.0	11.7
H	3	4	1/3/2020	172	-	-	-	-	-	-	-
H	4	4	1/7/2020	316	400	<0.050	<0.300	<10.0	<10.0	<10.0	<30
H	5	4	1/7/2020	224	-	-	-	-	-	-	-
I	1	4	1/3/2020	ND	384	<0.050	<0.300	<10.0	12.0	<10.0	12.0
I	2	4	1/7/2020	316	-	-	-	-	-	-	-
I	3	4	1/3/2020	ND	80.0	<0.050	<0.300	<10.0	27.3	10.6	37.9
I	4	4	1/3/2020	ND	-	-	-	-	-	-	-
I	5	4	1/3/2020	148	176	<0.050	<0.300	<10.0	<10.0	<10.0	<30
J	1	4	1/7/2020	224	272	<0.050	<0.300	<10.0	10.6	<10.0	10.6
J	2	4	1/3/2020	ND	-	-	-	-	-	-	-
J	3	4	1/3/2020	172	-	-	-	-	-	-	-
J	4	4	1/3/2020	ND	-	-	-	-	-	-	-
J	5	4	1/7/2020	284	288	<0.050	<0.300	<10.0	<10.0	<10.0	<30
K	1	4	1/3/2020	172	176	<0.050	<0.300	<10.0	<10.0	<10.0	<30
K	2	4	1/3/2020	ND	-	-	-	-	-	-	-
K	3	4	1/3/2020	ND	96	<0.050	<0.300	<10.0	<10.0	<10.0	<30
K	4	4	1/3/2020	ND	-	-	-	-	-	-	-
<b>NMOC thresholds - Remediation</b>				<b>600</b>		<b>10</b>	<b>50</b>				<b>100</b>

**BOLD** results indicate results above RRAL

- indicates tests were not ran

All units in mg/kg unless otherwise noted

Appendix D. Remediation Sampling Summary Table											
Row	Column	Depth (ft)	Sample Date	Chloride		BTEX (8021B)		TPH (8015M)			
				Field Screening	M4500	Benzene	Total BTEX	GRO	DRO	EXT DRO	C6-C35
K	5	4	1/3/2020	196	224	<0.050	<0.300	<10.0	<10.0	<10.0	<30
L	1	4	1/3/2020	ND	-	-	-	-	-	-	-
L	2	4	1/3/2020	ND	144	<0.050	<0.300	<10.0	<10.0	<10.0	<30
L	3	4	1/3/2020	ND	-	-	-	-	-	-	-
L	4	4	1/3/2020	ND	80.0	<0.050	<0.300	<10.0	<10.0	<10.0	<30
L	5	4	1/3/2020	ND	-	-	-	-	-	-	-
<b>NMOCD Thresholds - Remediation</b>				<b>600</b>		<b>10</b>	<b>50</b>				<b>100</b>

**BOLD** results indicate results above RRAL

- indicates tests were not ran

All units in mg/kg unless otherwise noted

**APPENDIX E**

**SITE PHOTOGRAPHS**



RXSoil, Inc.  
201 Main St. Ste. 1360, Fort Worth, TX 76102

**APPENDIX F.1**

**LABORATORY REPORTS**

**CHARACTERIZATION**



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

December 04, 2019

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PEDEVCO HALEY 30

Enclosed are the results of analyses for samples received by the laboratory on 11/26/19 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 1 (H904019-01)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTEX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	3320	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 2 (H904019-02)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTEX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	880	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 3 (H904019-03)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	2880	16.0	12/02/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 4 (H904019-04)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	1710	16.0	12/02/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 5 (H904019-05)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	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	32.0	16.0	12/02/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 6 (H904019-06)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	480	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 7 (H904019-07)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	320	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 8 (H904019-08)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	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	9280	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EB - 9 (H904019-09)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92	
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83	
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78	
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72	
Total BTX	<0.300	0.300	11/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	656	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 1 (H904019-10)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 2 (H904019-11)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/26/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/26/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 3 (H904019-12)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	192	16.0	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 4 (H904019-13)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 5.2 (H904019-14)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTEX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	12/02/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 6 (H904019-15)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	12/02/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 7 (H904019-16)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	64.0	16.0	12/02/2019	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	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/20/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 8 (H904019-17)**

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	11/26/2019	ND	1.86	93.0	2.00	1.92		
Toluene*	<0.050	0.050	11/26/2019	ND	1.82	91.1	2.00	1.83		
Ethylbenzene*	<0.050	0.050	11/26/2019	ND	1.77	88.6	2.00	1.78		
Total Xylenes*	<0.150	0.150	11/26/2019	ND	5.18	86.3	6.00	2.72		
Total BTX	<0.300	0.300	11/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	12/02/2019	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	11/27/2019	ND	201	101	200	0.353	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	202	101	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 9 (H904019-18)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	240	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 10 (H904019-19)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	32.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 11.2 (H904019-20)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	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	64.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 12 (H904019-21)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 13 (H904019-22)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 14 (H904019-23)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5		
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2		
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6		
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6		
Total BTEX	<0.300	0.300	11/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	<16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 15 (H904019-24)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 16 (H904019-25)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 17 (H904019-26)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	<16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 18 (H904019-27)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5		
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2		
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6		
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6		
Total BTEX	<0.300	0.300	11/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	<16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 19 (H904019-28)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	<16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 20 (H904019-29)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	<16.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 21 (H904019-30)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 22 (H904019-31)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	32.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 96.0 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 23.2 (H904019-32)**

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	11/27/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/27/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/27/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/27/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/27/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	224	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 24 (H904019-33)**

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	11/28/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/28/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/28/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/28/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	320	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/24/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 25 (H904019-34)**

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	11/28/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/28/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/28/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/28/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/28/2019	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	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 26.2 (H904019-35)**

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	11/28/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/28/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/28/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/28/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	112	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 27 (H904019-36)**

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	11/28/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/28/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/28/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/28/2019	ND	5.19	86.5	6.00	13.6	
Total BTEX	<0.300	0.300	11/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	544	16.0	12/02/2019	ND	416	104	400	0.00	QM-07

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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 28.3 (H904019-37)**

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	11/28/2019	ND	1.76	88.1	2.00	13.5	
Toluene*	<0.050	0.050	11/28/2019	ND	1.69	84.3	2.00	14.2	
Ethylbenzene*	<0.050	0.050	11/28/2019	ND	1.72	85.9	2.00	13.6	
Total Xylenes*	<0.150	0.150	11/28/2019	ND	5.19	86.5	6.00	13.6	
Total BTX	<0.300	0.300	11/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	96.0	16.0	12/02/2019	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	11/27/2019	ND	198	98.8	200	4.11	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	206	103	200	0.401	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 29 (H904019-38)**

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	12/02/2019	ND	2.00	99.9	2.00	2.06		
Toluene*	<0.050	0.050	12/02/2019	ND	1.91	95.5	2.00	2.27		
Ethylbenzene*	<0.050	0.050	12/02/2019	ND	1.94	96.8	2.00	2.41		
Total Xylenes*	<0.150	0.150	12/02/2019	ND	5.88	98.1	6.00	2.34		
Total BTEX	<0.300	0.300	12/02/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	112	16.0	12/02/2019	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	11/27/2019	ND	199	99.7	200	2.31	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	203	101	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 30 (H904019-39)**

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	12/02/2019	ND	2.00	99.9	2.00	2.06	
Toluene*	<0.050	0.050	12/02/2019	ND	1.91	95.5	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/02/2019	ND	1.94	96.8	2.00	2.41	
Total Xylenes*	<0.150	0.150	12/02/2019	ND	5.88	98.1	6.00	2.34	
Total BTEX	<0.300	0.300	12/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	112	16.0	12/02/2019	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	11/27/2019	ND	199	99.7	200	2.31	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	203	101	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 31.2 (H904019-40)**

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	12/02/2019	ND	2.00	99.9	2.00	2.06	
Toluene*	<0.050	0.050	12/02/2019	ND	1.91	95.5	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/02/2019	ND	1.94	96.8	2.00	2.41	
Total Xylenes*	<0.150	0.150	12/02/2019	ND	5.88	98.1	6.00	2.34	
Total BTX	<0.300	0.300	12/02/2019	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	272	16.0	12/02/2019	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	11/27/2019	ND	199	99.7	200	2.31	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	203	101	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 11/26/2019  
 Reported: 12/04/2019  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 11/26/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: ES - 32.2 (H904019-41)**

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	12/02/2019	ND	2.00	99.9	2.00	2.06	
Toluene*	<0.050	0.050	12/02/2019	ND	1.91	95.5	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/02/2019	ND	1.94	96.8	2.00	2.41	
Total Xylenes*	<0.150	0.150	12/02/2019	ND	5.88	98.1	6.00	2.34	
Total BTX	<0.300	0.300	12/02/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	32.0	16.0	12/02/2019	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	11/27/2019	ND	199	99.7	200	2.31	
DRO >C10-C28*	<10.0	10.0	11/27/2019	ND	203	101	200	0.662	
EXT DRO >C28-C36	<10.0	10.0	11/27/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### 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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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84 jo 44 ega



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>KX Soil</b>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <b>Matthew Longenecker</b>		Company:									
Address:		Attn:									
City:		Address:									
Phone #:		City:									
Fax #:		State:									
Project #: <b>Project Owner:</b>		Zip:									
Project Name: <b>Pedevco Haler 30</b>		Phone #:									
Project Location:		Fax #:									
Sampler Name:		FOR LAB USE ONLY									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER	
				SOIL		OIL		SLUDGE		OTHER :	
				ACID/BASE:		ICE / COOL		OTHER :			
				DATE		TIME					
<b>1</b>		<b>EB-1</b>		<b>11/28</b>		<b>8:00am</b>		<b>X</b>		<b>TPH</b>	
<b>2</b>		<b>EB-2</b>		<b>11/28</b>		<b>8:00am</b>		<b>X</b>		<b>Btex</b>	
<b>3</b>		<b>EB-3</b>		<b>11/28</b>		<b>8:00am</b>		<b>X</b>		<b>Chlorides</b>	
<b>4</b>		<b>EB-4</b>		<b>11/24</b>		<b>1</b>					
<b>5</b>		<b>EB-5</b>		<b>11/24</b>		<b>1</b>					
<b>6</b>		<b>EB-6</b>		<b>11/24</b>		<b>1</b>					
<b>7</b>		<b>EB-7</b>		<b>11/24</b>		<b>1</b>					
<b>8</b>		<b>EB-8</b>		<b>11/24</b>		<b>1</b>					
<b>9</b>		<b>EB-9</b>		<b>11/24</b>		<b>1</b>					
<b>10</b>		<b>ES-1</b>		<b>11/20</b>		<b>8:00am</b>		<b>X</b>			

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Relinquished By: <b>Matthew Longenecker</b>	Date: <b>4/26</b>	Received By: <b>Janessa Steele</b>	Date: <b>4/26</b>
Relinquished By:	Date:	Received By:	Date:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>TP</b>
Turnaround Time:	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) <input type="checkbox"/>	Sample Condition
Thermometer ID #97	Correction Factor +0.4 °C	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
		Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

**APPENDIX F.2**

**LABORATORY REPORTS**

**REMEDIATION**





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

January 13, 2020

MATTHEW LONGCRIER

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: PEDEVCO HALEY 30

Enclosed are the results of analyses for samples received by the laboratory on 01/08/20 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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](http://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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A 1 (H000065-01)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	176	16.0	01/09/2020	ND	400	100	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	01/09/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A 3 (H000065-02)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	160	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: A 5 (H000065-03)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	208	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 2 (H000065-04)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	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	144	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 4 (H000065-05)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	160	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C 1 (H000065-06)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	336	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 77.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C 2 (H000065-07)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	64.0	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: C 3 (H000065-08)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	240	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 78.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D 2 (H000065-09)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	400	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: D 4 (H000065-10)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 1 (H000065-11)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	144	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 3 (H000065-12)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 75.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E 5 (H000065-13)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	400	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F 2 (H000065-14)**

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	01/10/2020	ND	2.09	104	2.00	3.22		
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06		
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66		
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42		
Total BTEx	<0.300	0.300	01/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	240	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: F 4 (H000065-15)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	400	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	22.9	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G 1 (H000065-16)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	336	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 78.1 % 41-142

Surrogate: 1-Chlorooctadecane 85.0 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G 2 (H000065-17)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	384	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G 3 (H000065-18)**

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	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 2 (H000065-19)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	320	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	11.7	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H 4 (H000065-20)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	400	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: I 1 (H000065-21)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	384	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	12.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 80.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: I 3 (H000065-22)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTEx	<0.300	0.300	01/10/2020	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	80.0	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	27.3	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	10.6	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: I 5 (H000065-23)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	176	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: J 1 (H000065-24)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70		
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86		
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76		
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68		
Total BTEx	<0.300	0.300	01/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	10.6	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 75.2 % 41-142

Surrogate: 1-Chlorooctadecane 82.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/07/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: J 5 (H000065-25)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTEx	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	288	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: K 1 (H000065-26)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70		
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86		
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76		
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68		
Total BTX	<0.300	0.300	01/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	176	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	196	98.2	200	0.145	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	217	108	200	0.728	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: K 3 (H000065-27)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70		
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86		
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76		
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68		
Total BTEx	<0.300	0.300	01/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	96.0	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	165	82.5	200	18.4	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	159	79.4	200	19.4	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: K 5 (H000065-28)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	224	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	165	82.5	200	18.4	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	159	79.4	200	19.4	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: L 2 (H000065-29)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70	
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68	
Total BTX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	144	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	165	82.5	200	18.4	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	159	79.4	200	19.4	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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**Analytical Results For:**

RX-SOIL INC.  
 MATTHEW LONGCRIER  
 201 MAIN STREET, SUITE 1360  
 FORT WORTH TX, 76102  
 Fax To: NA

Received: 01/08/2020  
 Reported: 01/13/2020  
 Project Name: PEDEVCO HALEY 30  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 01/03/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: L 4 (H000065-30)**

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	01/10/2020	ND	1.98	99.0	2.00	4.70		
Toluene*	<0.050	0.050	01/10/2020	ND	1.96	98.2	2.00	4.86		
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.00	99.8	2.00	4.76		
Total Xylenes*	<0.150	0.150	01/10/2020	ND	5.81	96.8	6.00	4.68		
Total BTX	<0.300	0.300	01/10/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	80.0	16.0	01/09/2020	ND	400	100	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	01/10/2020	ND	230	115	200	14.1	
DRO >C10-C28*	<10.0	10.0	01/10/2020	ND	266	133	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	01/10/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.9 % 37.6-147

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### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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







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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



Page 35 of 35



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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**END OF REPORT**