



June 14, 2021

NMOCD Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Remediation Plan  
BTA Mesa B 8115 JVP #5H Produced Water Line  
Incident ID: NRM2015756964

To Whom it May Concern

RXSoil, Inc. is pleased to submit the remediation plan for the on-site remediation of impacted soil for the above release.

Sincerely,

A 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

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

**Table of Contents**

- I. Introduction..... 3
- II. Site Assessment/Characterization..... 3
- III. Remediation ..... 3
- IV. Restoration, Reclamation and Re-vegetation ..... 4

**Figures**

- 1. Vicinity Map..... 5
- 2. Site Overview..... 6
- 3. Hydrology Map..... 7
- 4. Sample Map..... 8

**Appendix**

- A. C-141 ..... 9
- B. Delineation Data Summary ..... 13
- C. Site Photographs ..... 16
- D. Laboratory Reports..... 18

## I. Introduction

On behalf of BTA Oil Producers, LLC, RXSoil, Inc. ("RXSoil") has prepared this work plan that describes remediation of the above-mentioned produced water release.

The release was discovered 5/18/2020 at reported coordinates 32.05101°, -103.61744° (see *Figure 1* for vicinity map). It was reported that 276 barrels of produced water and 1 barrel of crude oil were released, and 276 barrels of produced water and 0 barrels of crude oil were recovered during the initial response.

This release overlays impacted soil from incident number NRM2028334152 and is near an unreported BTA release (addressed in and in the scope of work in the NRM2028334152 remediation plan). The Bureau of Land Management has approved a work plan for all of these releases.

The C-141 is attached as *Appendix A*.

## II. Site Assessment/Characterization

1. **Site Map** – See *Figure 2*
2. **Depth to ground water** – Temporary water wells are scheduled to be drilled in the area in the last week of June, following approval from the Office of the State Engineer. These wells will be drilled to a depth of 105' below ground surface and left open for 48 hours. A report of results will be submitted and used to determine depth to ground water.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release (see *Figure 3*).
4. **Distance to nearest significant watercourse** – There is no known significant watercourse within a half mile, per USGS data.
5. **Soil/waste characteristics** – An initial delineation was performed in May and June of 2020. Sample locations are shown in *Figure 4* and data is summarized in *Appendix B* with laboratory reports in *Appendix D*. Excavation will start with the removal of soil to 4' within the outlined spill map. Sampling will be conducted to confirm horizontal excavation and will consist of sampling sidewalls (composites representing <200 square feet) to verify each wall is below thresholds listed in Table I and NMAC 19.15.29.13.D. Vertical excavation will continue throughout the spill area to clean material per Table I (with bottom samples representing <500 square feet). Excavation will be guided by field data and confirmed via third-party laboratory.

## III. Remediation Plan

As stated in **Section II**, delineation will be conducted throughout excavation to thresholds in Table I with samples representing no more than 200 square feet for sidewalls and 500 square feet for bottom samples.

RXSoil's core process of soil remediation will be used to address the contamination. All excavation will be supervised with approval from area utilities owners via NM 811.

RXSoil will construct an above-ground treatment cell on a nearby clearing to avoid tearing up additional vegetation (see *Figure 2* for projected placement). Berms will be constructed around the perimeter of the cell area. A 20-mil reinforced poly liner will be placed on the surface and up the sides of the berms to contain treatment. A proprietary drainage and collection system will be installed prior to filling the cells. All contaminated soil will be placed in the contained treatment cell for treatment. It is estimated 1,850 cubic yards will require remediation.

To confirm successful treatment inside the cell, a grid of confirmation samples will be gathered at depth 36"-48" (bottom 12" of 48" depth treatment cell, as previously requested) with one sample representing no more than 100 cubic yards. All cell samples will be field screened and if a sample tests above threshold, treatment will continue in that area until the soil tests clean, per strictest Table I guidelines for impacted soils. Samples will be submitted to a third-party laboratory to be tested for chlorides, TPH, and BTEX using approved NMOCD methods. Treatment will continue until all soil is below strictest Table I thresholds for remediation.

Sidewall and bottom samples will be taken using a stainless-steel hand shovel while treatment cell samples will be taken using a stainless-steel bucket auger. All tools are to be 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 will temporarily be transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples will be transferred to glass jars, supplied by an approved laboratory. The threads on all jars will be wiped clean to allow an air-tight seal. Samples will be transferred on ice to a third-party laboratory to ensure tests are completed within 14 days (as recommended for EPA methods 8021B and 8015M).

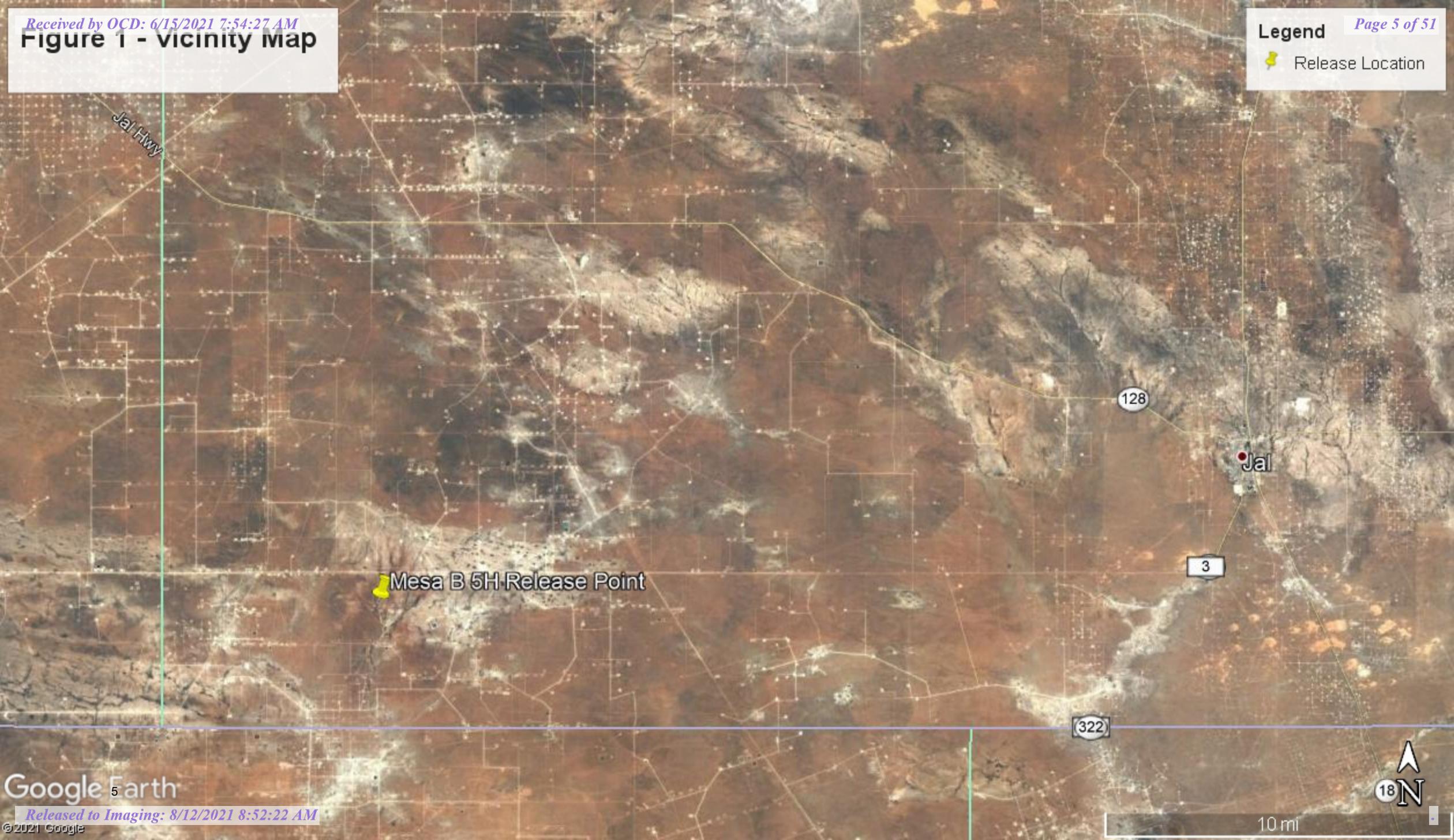
Remediation efforts will commence following the approval of this remediation plan and is estimated to take approximately 30 days.

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

Following remediation, RXSoil will return all soils to match previous conditions. RXSoil will drill in seed according to the landowner's (BLM's) requests. RXSoil will submit a closure request pursuant to NMAC 19.15.29.12.

RXSoil, Inc.

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



Mesa B 5H-Release Point

Jai

128

3

322

18 N

10 mi

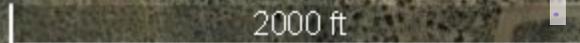
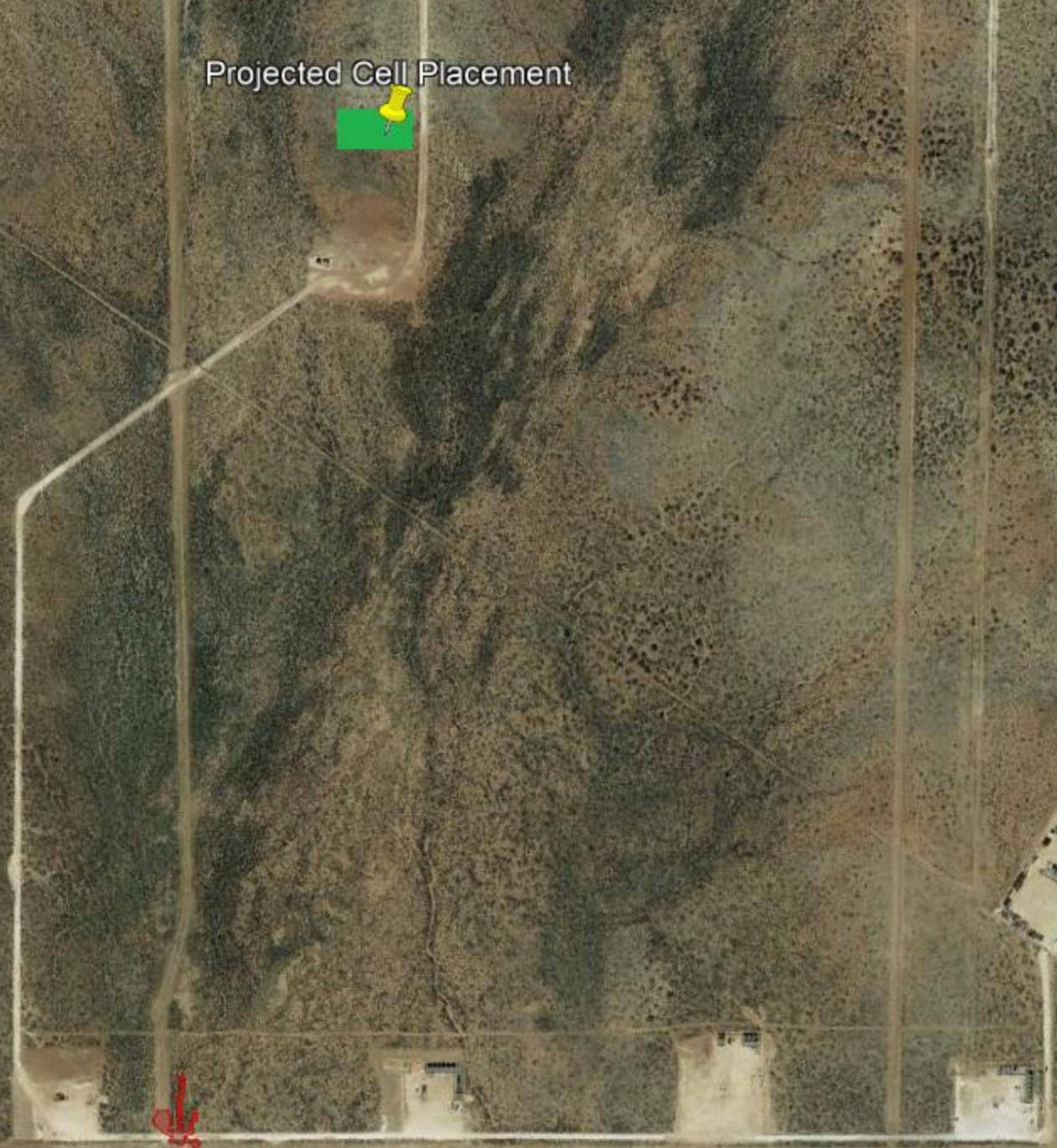
# Figure 2 - Site Map

Cell Placement on north edge of map  
Spill outline on south side of map

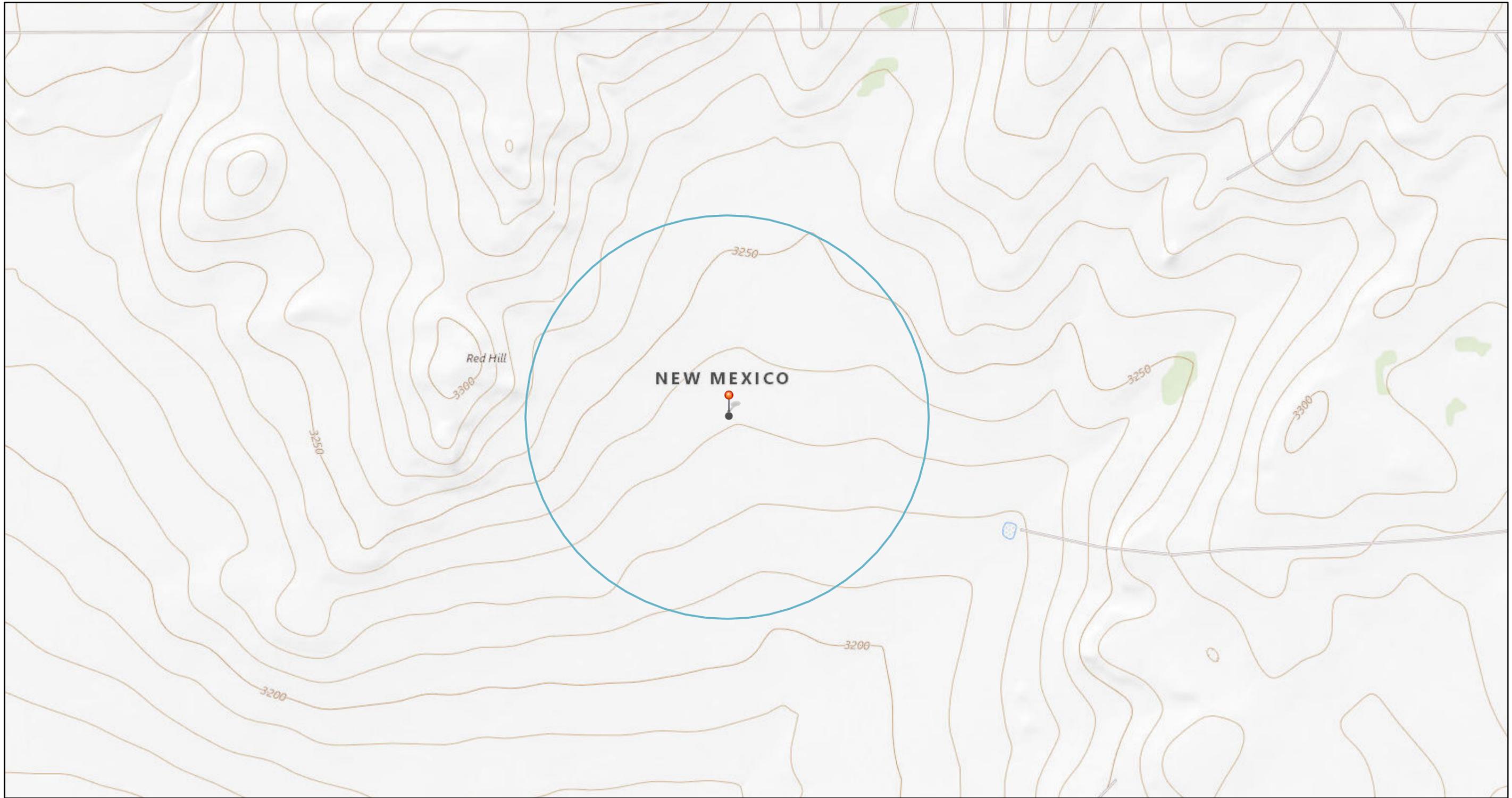
**Legend**

-  Spill outline

Projected Cell Placement

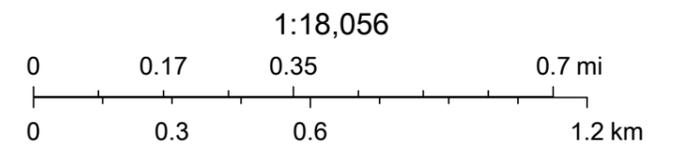


# Figure 3 - Hydrology Map



6/10/2021, 7:33:43 PM

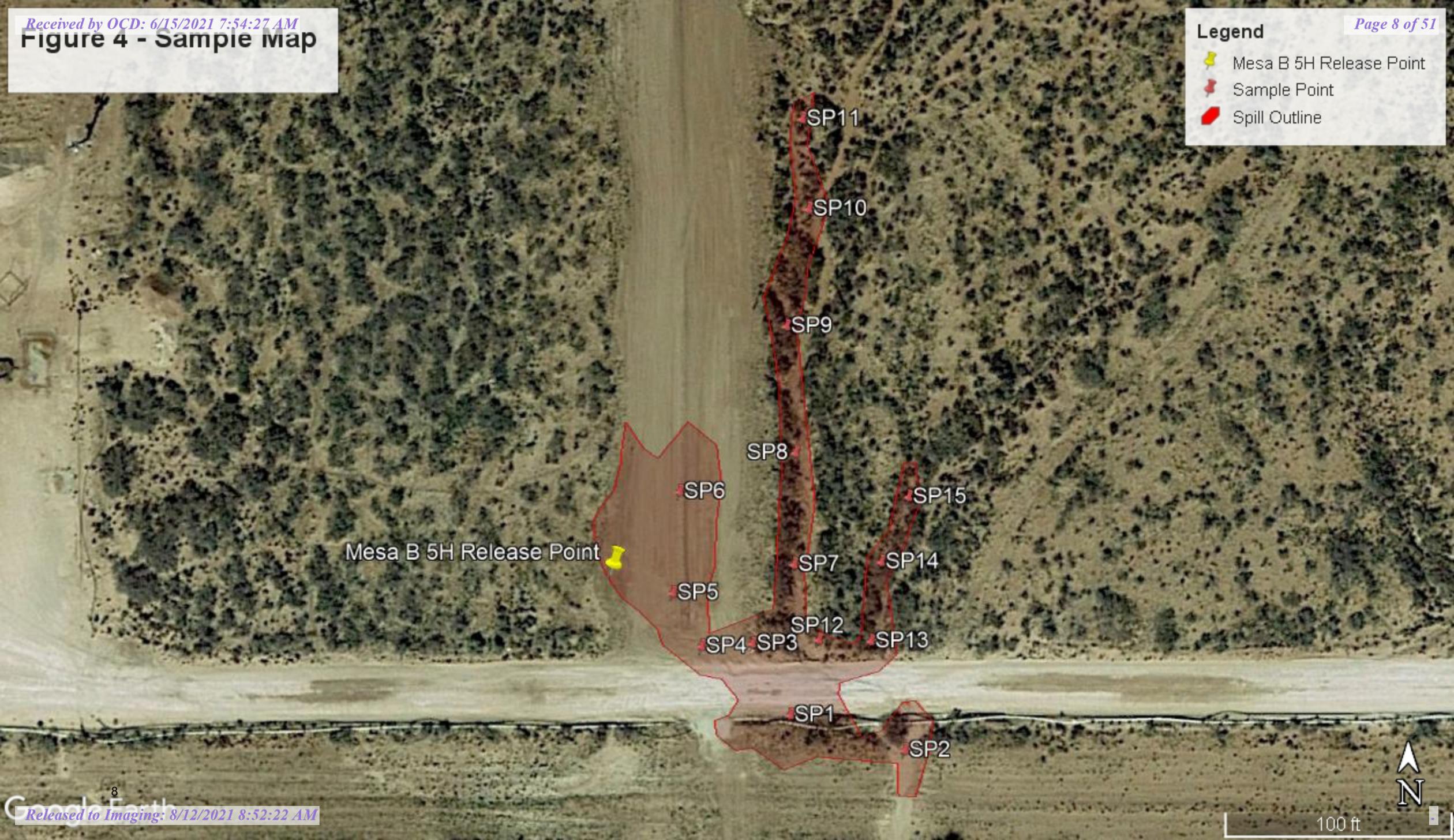
-  Override 1
-  Override 1
-  OCD District Offices



OCD, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS

**Legend**

-  Mesa B 5H Release Point
-  Sample Point
-  Spill Outline



Mesa B 5H Release Point

SP11

SP10

SP9

SP8

SP6

SP15

SP7

SP14

SP5

SP12

SP4

SP3

SP13

SP1

SP2



100 ft

**APPENDIX A**

**C-141**

**RXSoil, Inc.**

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

Incident ID	nrm2015756964
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nrm2015756964
District RP	
Facility ID	
Application ID	

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

Printed Name: BOB HALL Title: ENVIRONMENTAL MGR  
 Signature: *Bob Hall* Date: 6/14/2021  
 email: bhall@btaoil.com Telephone: (432) 682-3753

**OCD Only**

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

Form C-141  
Page 5

State of New Mexico  
Oil Conservation Division

Incident ID	nrm2015756964
District RP	
Facility ID	
Application ID	

### Remediation Plan

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

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

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

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

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

Printed Name: Bob Hau Title: ENVIRONMENTAL MGR.  
 Signature: [Signature] Date: 6/14/2021  
 email: bhau@btaoil.com Telephone: (432) 682-3753

**OCD Only**

Received by: Chad Hensley Date: 08/12/2021

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: [Signature] Date: 08/12/2021

**APPENDIX B**  
**DELINEATION DATA SUMMARY**

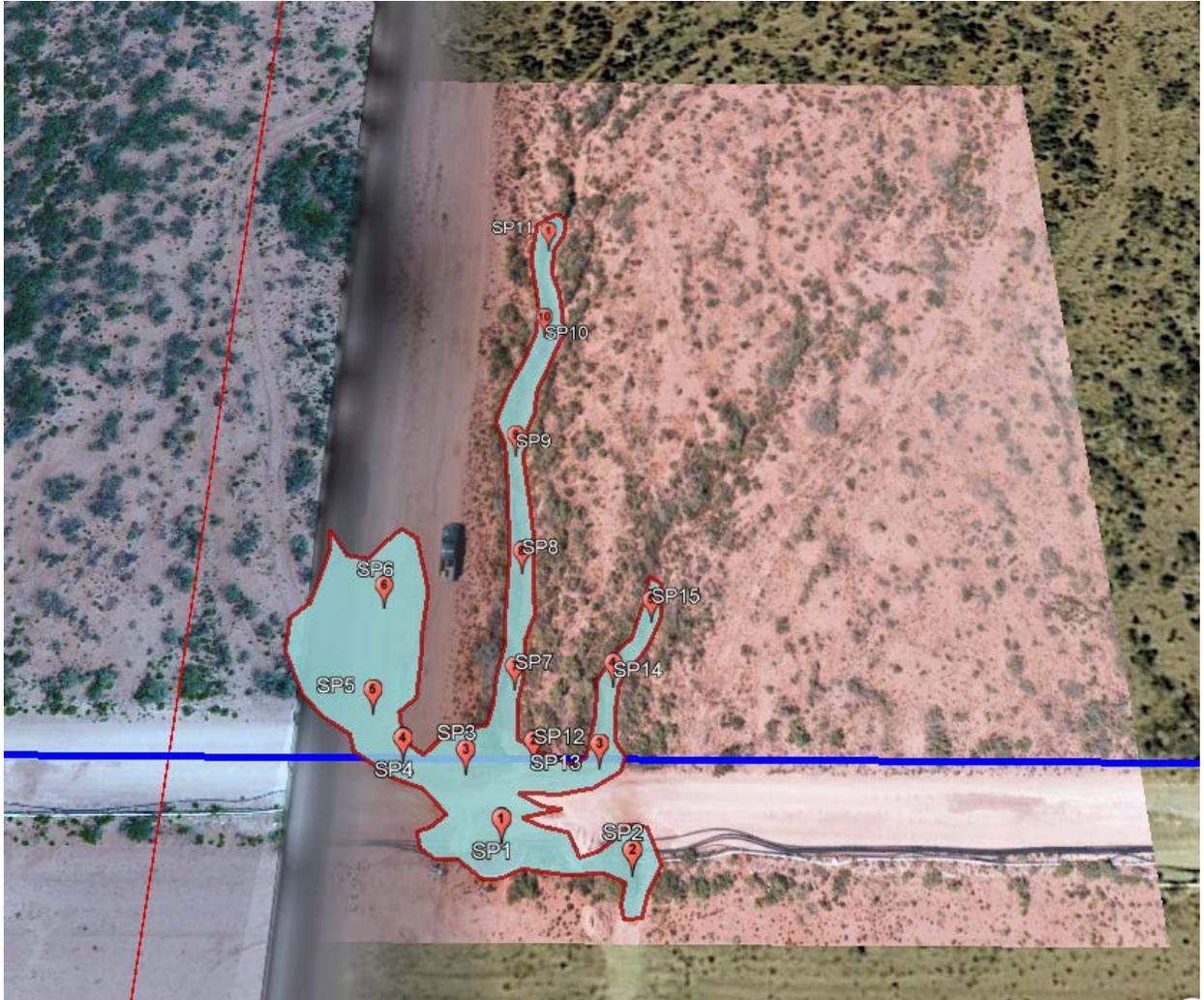
**RXSoil, Inc.**  
**201 Main St. Ste. 1360, Fort Worth, TX 76102**

Delineation Data					
Sample Location	Depth	Sample Date	Analyzed	Lab ID Sample	Chloride
	feet				Method 4500
SP1	1	5/26/2020	5/28/2020	H001440-01	46000
SP1	1.5	5/26/2020	5/28/2020	H001440-02	16800
SP1	2	6/2/2020	6/3/2020	H001497-01	10000
SP1	3	6/5/2020	6/15/2020	H001571-01	6800
SP1	4	6/5/2020	6/15/2020	H001571-02	5600
SP2	1	5/26/2020	5/28/2020	H001440-03	46400
SP2	1.5	5/26/2020	5/28/2020	H001440-04	12400
SP2	2	6/2/2020	6/3/2020	H001497-02	48000
SP2	3	6/5/2020	6/15/2020	H001571-03	6000
SP2	4	6/5/2020	6/15/2020	H001571-04	6800
SP3	1	5/26/2020	5/28/2020	H001440-05	20000
SP3	1.5	5/26/2020	5/28/2020	H001440-06	37600
SP3	2	6/2/2020	6/3/2020	H001497-03	28400
SP3	3	6/5/2020	6/15/2020	H001571-05	102000
SP3	4	6/5/2020	6/15/2020	H001571-06	14800
SP4	1	5/26/2020	5/28/2020	H001440-07	42400
SP4	1.5	5/26/2020	5/28/2020	H001440-08	36800
SP4	2	6/2/2020	6/3/2020	H001497-04	25600
SP4	3	6/5/2020	6/15/2020	H001571-07	12500
SP4	4	6/5/2020	6/15/2020	H001571-08	15300
SP5	1	5/26/2020	5/28/2020	H001440-09	72800
SP5	1.5	5/26/2020	5/28/2020	H001440-10	5360
SP5	2	6/2/2020	6/3/2020	H001497-05	560
SP6	1	5/26/2020	5/28/2020	H001440-11	36000
SP6	1.5	5/26/2020	5/28/2020	H001440-12	14000
SP6	2	6/2/2020	6/3/2020	H001497-06	9460
SP6	3	6/5/2020	6/15/2020	H001571-09	117000
SP6	4	6/5/2020	6/15/2020	H001571-10	120000
SP7	1	5/26/2020	5/28/2020	H001440-13	24000
SP7	1.5	5/26/2020	5/28/2020	H001440-14	106000
SP7	2	6/2/2020	6/3/2020	H001497-07	65600
SP7	3	6/5/2020	6/15/2020	H001571-11	124000
SP7	4	6/5/2020	6/15/2020	H001571-12	22400
SP8	1	5/26/2020	5/28/2020	H001440-15	42000
SP8	1.5	5/26/2020	5/28/2020	H001440-16	24000
SP8	2	6/2/2020	6/3/2020	H001497-08	20000
SP8	3	6/5/2020	6/15/2020	H001571-13	137000
SP8	4	6/5/2020	6/15/2020	H001571-14	125000
SP9	1	5/26/2020	5/28/2020	H001440-17	14000
SP9	1.5	5/26/2020	5/28/2020	H001440-18	19600
SP9	2	6/2/2020	6/3/2020	H001497-09	22400
SP9	3	6/5/2020	6/15/2020	H001571-15	111000
SP9	4	6/5/2020	6/15/2020	H001571-16	47200

Delineation Data					
Sample Location	Depth	Sample Date	Analyzed	Lab ID Sample	Chloride
	feet				Method 4500
SP10	1	5/26/2020	5/28/2020	H001440-19	27200
SP10	1.5	5/26/2020	5/28/2020	H001440-20	20800
SP10	2	6/2/2020	6/3/2020	H001497-10	17200
SP10	3	6/5/2020	6/15/2020	H001571-17	48800
SP10	4	6/5/2020	6/15/2020	H001571-18	54400
SP11	1	5/26/2020	5/28/2020	H001440-21	60800
SP11	1.5	5/26/2020	5/28/2020	H001440-22	62400
SP11	2	6/2/2020	6/3/2020	H001497-11	59200
SP11	3	6/5/2020	6/15/2020	H001571-19	121000
SP11	4	6/5/2020	6/15/2020	H001571-20	52800
SP12	1	5/26/2020	5/28/2020	H001440-23	41200
SP12	1.5	5/26/2020	5/28/2020	H001440-24	42400
SP12	2	6/2/2020	6/3/2020	H001497-12	47600
SP12	3	6/5/2020	6/15/2020	H001571-21	120000
SP12	4	6/5/2020	6/15/2020	H001571-22	125000
SP13	1	5/26/2020	5/28/2020	H001440-25	43600
SP13	1.5	5/26/2020	5/28/2020	H001440-26	50400
SP13	2	6/2/2020	6/3/2020	H001497-13	51200
SP13	3	6/5/2020	6/15/2020	H001571-23	117000
SP13	4	6/5/2020	6/15/2020	H001571-24	52800
SP14	1	5/26/2020	5/28/2020	H001440-27	42400
SP14	1.5	5/26/2020	5/28/2020	H001440-28	48800
SP14	2	6/2/2020	6/3/2020	H001497-14	54400
SP14	3	6/5/2020	6/15/2020	H001571-25	135000
SP14	4	6/5/2020	6/15/2020	H001571-26	47600
SP15	1	5/26/2020	5/28/2020	H001440-29	48000
SP15	1.5	5/26/2020	5/28/2020	H001440-30	43600
SP15	2	6/2/2020	6/3/2020	H001497-15	50400
SP15	3	6/5/2020	6/15/2020	H001571-27	123000
SP15	4	6/5/2020	6/15/2020	H001571-28	127000

**APPENDIX C**  
**SITE PHOTOGRAPHS**

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



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

**APPENDIX D**  
**LABORATORY REPORTS**

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



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

May 29, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 05/27/20 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 1 @ 1' (H001440-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46000	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 1 @ 1.5' (H001440-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 2 @ 1' (H001440-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46400	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 2 @ 1.5' (H001440-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	05/28/2020	ND	384	96.0	400	4.08	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 3 @ 1' (H001440-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 3 @ 1.5' (H001440-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37600	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 4 @ 1' (H001440-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 4 @ 1.5' (H001440-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	05/28/2020	ND	384	96.0	400	4.08	

**Sample ID: SP 5 @ 1' (H001440-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72800	16.0	05/28/2020	ND	384	96.0	400	4.08	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 5 @ 1.5' (H001440-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/28/2020	ND	384	96.0	400	0.00	QM-07

**Sample ID: SP 6 @ 1' (H001440-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 6 @ 1.5' (H001440-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 7 @ 1' (H001440-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 7 @ 1.5' (H001440-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	106000	16.0	05/28/2020	ND	384	96.0	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 8 @ 1' (H001440-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 8 @ 1.5' (H001440-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 9 @ 1' (H001440-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 9 @ 1.5' (H001440-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 10 @ 1' (H001440-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	05/28/2020	ND	384	96.0	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 10 @ 1.5' (H001440-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 11 @ 1' (H001440-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	60800	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 11 @ 1.5' (H001440-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	62400	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 12 @ 1' (H001440-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41200	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 12 @ 1.5' (H001440-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 13 @ 1' (H001440-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43600	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 13 @ 1.5' (H001440-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	50400	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 14 @ 1' (H001440-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 14 @ 1.5' (H001440-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	05/28/2020	ND	384	96.0	400	0.00	

**Sample ID: SP 15 @ 1' (H001440-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	05/28/2020	ND	384	96.0	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	05/27/2020	Sampling Date:	05/26/2020
Reported:	05/29/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	1 SAMPLES AND 1.5 SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

**Sample ID: SP 15 @ 1.5' (H001440-30)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>43600</b>	16.0	05/29/2020	ND	416	104	400	3.77	QM-07

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

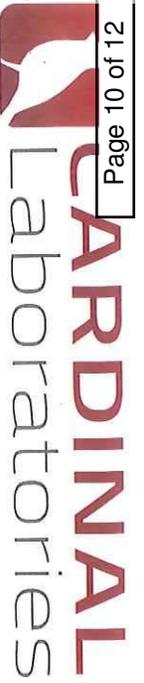
Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

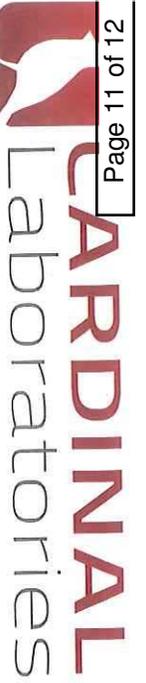
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>BTA</b> Project Manager:		P.O. #:		<b>BILL TO</b>	
Address:		Company: <b>BTA</b> Attn: <b>Dob Hall</b>		<b>ANALYSIS REQUEST</b>	
City: State: Zip:		Address:			
Phone #: Fax #:		City:			
Project #: Project Owner:		State: Zip:			
Project Name: <b>1' Samples + 1.5' Samples</b>		Phone #:			
Project Location: <b>Mesa B OS</b>		Fax #:			
Sampler Name: <b>Michael Alvar</b>					
<small>FOR LAB USE ONLY</small>					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	DATE	TIME
<b>H001440</b>				<b>5/24/20</b>	
	SP-1 @ 1.5'		1	9:30	X
	SP-2 @ 1.5'		1	9:35	X
	SP-3 @ 1.5'		1	9:40	X
	SP-4 @ 1.5'		1	9:45	X
	SP-5 @ 1.5'		1	9:50	X
	SP-6 @ 1.5'		1	9:55	X
	SP-7 @ 1.5'		1	10:00	X
	SP-8 @ 1.5'		1	10:05	X
	SP-9 @ 1.5'		1	10:10	X
	SP-10 @ 1.5'		1	10:15	X
				MATRIX: SOIL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: <input type="checkbox"/> PRESERV: ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: <input type="checkbox"/>	
PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: <i>[Signature]</i>		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Date: <b>5-27-20</b>		Date: <b>5-27-20</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:	
Time: <b>1420</b>		Time:		REMARKS:	
Delivered By: (Circle One) <b>UPS</b>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: <i>[Signature]</i> (Initials)	
Sampler - UPS - Bus - Other: <b>5.1 @ #113</b>		Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Michael @ expertwitnessservices.com bhall @ btacoil.com 1-3	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **B1A**  
 Project Manager:  
 Address:  
 City: State: Zip:  
 Phone #: Fax #:  
 Project #: Project Owner:  
 Project Name: **1' Samples + 15 samples**  
 Project Location: **Mesa B 005**  
 Sampler Name: **M. AUS**  
 P.O. #: Company: **B1A**  
 Attn: **Bob Hall**  
 Address: City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	CC
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<b>ADD144B</b>														
	Sr6 @ 1'	g	1	X	X	X	X	X	X	X	5/26/70	10:20	X	
	Sr6 @ 1.5'	g	1	X	X	X	X	X	X	X	10:25	10:30	X	
	Sr7 @ 1.5'	g	1	X	X	X	X	X	X	X	10:35	10:40	X	
	Sr7 @ 1.5'	g	1	X	X	X	X	X	X	X	10:45	10:50	X	
	Sr8 @ 1.5'	g	1	X	X	X	X	X	X	X	10:55	11:00	X	
	Sr9 @ 1.5'	g	1	X	X	X	X	X	X	X	11:05	11:05	X	
	Sr10 @ 1.5'	g	1	X	X	X	X	X	X	X	11:05	11:05	X	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]*  
 Date: **3-27-20**  
 Time: **1420**  
 Received By: *[Signature]*

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: **571c #413**  
 Sample Condition: Cool Intact  Yes  No  
 CHECKED BY: *[Signature]*

Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:  
 REMARKS:

2-3





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

June 04, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 06/03/20 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/03/2020	Sampling Date:	06/02/2020
Reported:	06/04/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 1 @ 2' (H001497-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 2 @ 2' (H001497-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 2' (H001497-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 4 @ 2' (H001497-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	06/03/2020	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/03/2020	Sampling Date:	06/02/2020
Reported:	06/04/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 5 @ 2' (H001497-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 2' (H001497-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 7 @ 2' (H001497-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	65600	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 8 @ 2' (H001497-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 9 @ 2' (H001497-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	06/03/2020	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/03/2020	Sampling Date:	06/02/2020
Reported:	06/04/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 10 @ 2' (H001497-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	06/03/2020	ND	432	108	400	0.00	

**Sample ID: SP 11 @ 2' (H001497-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	59200	16.0	06/03/2020	ND	416	104	400	3.77	QM-07

**Sample ID: SP 12 @ 2' (H001497-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	06/03/2020	ND	416	104	400	3.77	

**Sample ID: SP 13 @ 2' (H001497-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	51200	16.0	06/03/2020	ND	416	104	400	3.77	

**Sample ID: SP 14 @ 2' (H001497-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	06/03/2020	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/03/2020	Sampling Date:	06/02/2020
Reported:	06/04/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	2FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 15 @ 2' (H001497-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>50400</b>	16.0	06/03/2020	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

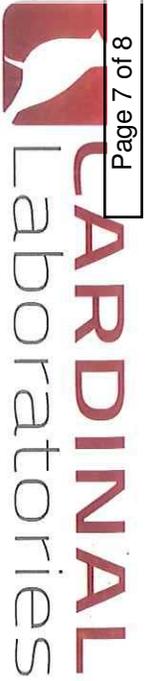
Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>BTA</b>		P.O. #:	
Project Manager: <b>Bob Hall</b>		Company: <b>BTA</b>	
Address:		Attn: <b>Bob Hall</b>	
City:		Address:	
Phone #:		State: Zip:	
Project #:		Project Owner:	
Project Name: <b>2' Samples</b>		City: State: Zip:	
Project Location: <b>Mesa D 05</b>		Phone #:	
Sampler Name: <b>M. AIVUS.</b>		Fax #:	
FOR LAB USE ONLY		PRESERV. SAMPLING	
Lab I.D. <b>H00497</b>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
		GROUNDWATER	WASTEWATER
		SOIL	OIL
		SLUDGE	OTHER :
		ACID/BASE:	ICE / COOL
		OTHER :	DATE
			TIME

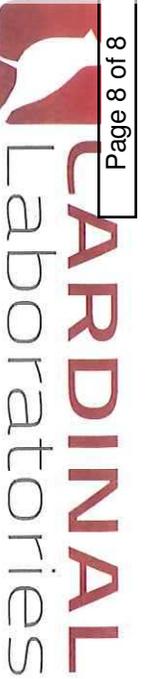
	DATE	TIME							
SR 10	21	9:21	X						
SR 12	21	9:26	X						
SR 13	21	10:03	X						
SR 14	21	10:15	X						
SR 15	21	11:27	X						
SR 16	21	11:42	X						
SR 17	21	11:59	X						
SR 18	21	12:07	X						
SR 19	21	12:55	X						
SR 20	21	12:50	X						

Relinquished By:	Date: <b>6-3-20</b>	Received By:
Time: <b>8:55</b>		
Delivered By: (Circle One) <b>-1.8c</b>	Sample Condition	CHECKED BY: <b>hs</b>
Sampler - UPS - Bus - Other: <b>#113</b>	<input type="checkbox"/> Equal <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)

REMARKS: **Midval expert@midvalservices.com**



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>BTA</b> Project Manager: <b>Bob Hall</b>		P.O. #: _____ Company: <b>BTA</b> Attn: <b>Bob Hall</b> Address: _____ City: _____ State: _____ Zip: _____	
Address: _____ City: _____ State: _____ Zip: _____		Project #: _____ Project Owner: _____ Project Name: <b>2' Samples</b> Project Location: <b>Mesa B 05</b> Sampler Name: <b>M. Almy</b>	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: _____ Sampler Name: _____		City: _____ State: _____ Zip: _____ Address: _____ Attn: _____ P.O. #: _____ Company: _____ Fax #: _____	
FOR LAB USE ONLY			
Lab I.D. <b>H001497</b>	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING
11 Sp. 11 @ 2'	9	1	6/2/20 2:20
12 Sp. 12 @ 2'	9	1	6/2/20 2:42
13 Sp. 13 @ 2'	9	1	6/2/20 2:49
14 Sp. 14 @ 2'	9	1	6/2/20 2:59
15 Sp. 15 @ 2'	9	1	6/2/20 3:07
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.			
Relinquished By: <b>WT</b> Date: <b>6-3-20</b> Time: <b>9:55</b>	Received By: _____ Date: _____ Time: _____	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____ Add'l Fax #: _____
Delivered By: (Circle One) <b>-1.8c</b> Sampler - UPS - Bus - Other: <b>#113</b>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	CHECKED BY: <b>ht</b> REMARKS: <b>Michlo expert services - con</b>	

4 Cardinal cannot warrant analytical accuracy. Discrepancy between channels for /EZTA 202-2326



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

June 16, 2020

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA B 05

Enclosed are the results of analyses for samples received by the laboratory on 06/12/20 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 1 @ 3' (H001571-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 1 @ 4' (H001571-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 2 @ 3' (H001571-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 2 @ 4' (H001571-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/15/2020	ND	448	112	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 3 @ 3' (H001571-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	102000	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 3 @ 4' (H001571-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 4 @ 3' (H001571-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 4 @ 4' (H001571-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15300	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 6 @ 3' (H001571-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	117000	16.0	06/15/2020	ND	448	112	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 6 @ 4' (H001571-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	120000	16.0	06/15/2020	ND	448	112	400	0.00	

**Sample ID: SP 7 @ 3' (H001571-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	124000	16.0	06/15/2020	ND	432	108	400	3.77	QM-07

**Sample ID: SP 7 @ 4' (H001571-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 8 @ 3' (H001571-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	137000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 8 @ 4' (H001571-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	125000	16.0	06/15/2020	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 9 @ 3' (H001571-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	111000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 9 @ 4' (H001571-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47200	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 10 @ 3' (H001571-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 10 @ 4' (H001571-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	54400	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 11 @ 3' (H001571-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	121000	16.0	06/15/2020	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 11 @ 4' (H001571-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52800	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 12 @ 3' (H001571-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	120000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 12 @ 4' (H001571-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	125000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 13 @ 3' (H001571-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	117000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 13 @ 4' (H001571-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52800	16.0	06/15/2020	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BTA Oil Producers  
 BOB HALL  
 103 South Pecos  
 Midland TX, 79701  
 Fax To: (432) 683-0312

Received:	06/12/2020	Sampling Date:	06/05/2020
Reported:	06/16/2020	Sampling Type:	Soil
Project Name:	MESA B 05	Sampling Condition:	Cool & Intact
Project Number:	3FT & 4FT SAMPLES	Sample Received By:	Kelly Jacobson
Project Location:	LEA CO		

**Sample ID: SP 14 @ 3' (H001571-25)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	135000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 14 @ 4' (H001571-26)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 15 @ 3' (H001571-27)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	123000	16.0	06/15/2020	ND	432	108	400	3.77	

**Sample ID: SP 15 @ 4' (H001571-28)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	127000	16.0	06/15/2020	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

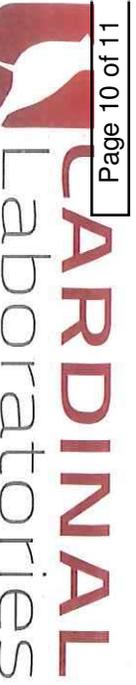
\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **STA**  
 Project Manager: **Bob Hall**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: **Sample 3' + 4'**  
 Project Location: **Mesa B05**  
 Sampler Name: **MMS**

P.O. #: **STA**  
 Company: **Bob Hall**  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	PL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<b>H001571</b>												
11	7 @ 3'		1	X					6/5/20	8:45	X	
12	7 @ 4'		1	X					6/5/20	8:50	X	
13	7 @ 3'		1	X					6/5/20	9:00	X	
14	8 @ 3'		1	X					6/5/20	9:10	X	
15	9 @ 3'		1	X					6/5/20	9:20	X	
16	9 @ 3'		1	X					6/5/20	9:25	X	
17	10 @ 3'		1	X					6/5/20	9:30	X	
18	16 @ 4'		1	X					6/5/20	9:40	X	
19	16 @ 4'		1	X					6/5/20	9:50	X	
20	11 @ 4'		1	X					6/5/20	10:00	X	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for an claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquinshed By: **WA** Date: **6/12/20** Received By: **[Signature]**  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Delivered By: (Circle One) **5.9°C**  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Sample Condition: Cool  Intact   
 Checked By: **[Signature]**

REMARKS: **midol @ expertensystems.com**

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_



**END OF REPORT**

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

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 31980

**CONDITIONS**

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 31980
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	RXSoil may test treatment inside the cell in any manner they choose. However, prior to backfill, cells we will be sampled no greater than 200 sq/ft and samples will be submitted to a third-party laboratory to be tested for chlorides, TPH, and BTEX using approved NMOCD methods.	8/12/2021