



August 27, 2024

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
MCA Unit #184  
Incident Number NSAP0230953082  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared the following *Closure Request* to document historical remediation activities performed at the MCA Unit #184 (Site). The remediation activities completed during 2013/2014 for Incident Number NTO1419639129 encompassed the release area for the subject Incident Number NSAP0230953082. Based on the historical remediation activities and subsequent closure approval for Incident Number NTO1419639129, Maverick is requesting closure for Incident Number NSAP0230953082.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit J, Section 27, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8037071, -103.7521286) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 5, 2002, a tubing leak on the MCA Unit #184 injection well resulted in the release of approximately 5 barrels (bbls) of produced water. The release sprayed onto the caliche pad and adjacent pasture. The previous operator, ConocoPhillips Company, reported the release to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number NSAP0230953082. The location and volume of the release were available in the NMOCD incident records; however, no Form C-141 was found.

On October 17, 2013, corrosion of a valve resulted in the release of approximately 11.7 bbls of produced water. A vacuum was used to recover 5 bbls of free-standing fluid. The release affected approximately 3,485 square feet of caliche pad and adjacent pasture. ConocoPhillips Company reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on October 18, 2013. The release was assigned Incident Number NTO1419639129.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC).

Maverick Permian, LLC  
Closure Request  
MCA Unit #184

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Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 60 feet below ground surface (bgs) based on the nearest groundwater well/soil boring data. A borehole (BH-4) was drilled approximately 0.7 miles northeast of the Site on March 23, 2020. The borehole was drilled during remediation activities associated with Incident Number NJXK1621825385. The borehole was advanced to a depth of 60 bgs via air rotary drilling rig, and no groundwater was encountered. Additionally, New Mexico Office of the State Engineer (NMOSE) well RA-12721 POD 5, was located approximately 0.7 miles southwest of the Site. The well was drilled during April 2020 and has a reported depth to groundwater of 124 feet bgs. The referenced well records are included in Appendix A. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC.

## HISTORICAL REMEDIATION ACTIVITIES

The release occurred in 2002 while the Site was operated by ConocoPhillips Company. The release information documented in the NMOCD incident records indicates that the caliche pad and a sandy low spot in the adjacent pasture were impacted by the release and that remediation of impacted soil would be completed in-place. No subsequent documentation of remediation activities was available for Incident Number NSAP0230953082.

A second release, Incident Number NTO1419639129, occurred at the Site on October 17, 2013, and was documented to have occurred in the same area as Incident Number NSAP0230953082. The documented release extent includes the caliche well pad around the MCA Unit 184 well head and the adjacent pasture area to the south (which was field verified to be a topographical low spot).

Remediation of Incident Number NTO1419639129 was completed during May 2014, Remediation activities were completed in accordance with the Corrective Action Plan (CAP), approved by the NMOCD on April 22, 2014. Impacted soil was excavated from the release area to depths ranging from 1-foot to 2.5 feet bgs and confirmation soil samples were collected from the final excavation extent. A *Termination*



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*Request*, requesting closure of Incident Number NTO1419639129 was submitted to the NMOCD on July 2, 2014. NMOCD approved closure of the release on July 14, 2014. A copy of the Final form C-141 and July 2, 2014, *Termination Request* is included as Appendix B. The *Termination Request* includes documentation of the release extent, excavation extent, soil sample locations, and photographs of the remediation activities.

A Site visit was completed on August 22, 2024, to evaluate current Site conditions. No surface staining or visible indications of the historical releases were identified at the Site and vegetation was establishing in the affected pasture area south of the well pad. A photographic log from the Site visit is included as Appendix C.

## RECLAMATION ACTIVITIES

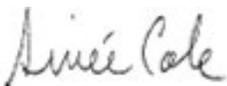
Reclamation activities were completed historically by the previous operator. The July 2, 2014, *Termination Request* indicates that the pad excavation was backfilled with imported caliche and the pasture excavation was backfilled with imported topsoil. Both areas were contoured to match the surrounding topography and the pasture area was seeded with the BLM seed mix #2.

## CLOSURE REQUEST

Historical remediation activities completed during 2014 for Incident Number NTO1419639129 appear to have encompassed the 2002 release area for Incident Number NSAP0230953082. NMOCD approved closure of Incident Number NTO1419639129 on July 14, 2014. Based on the historical remediation activities completed at the Site and closure approval of Incident Number NTO1419639129, Maverick respectfully requests closure for Incident NSAP0230953082.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Aimee Cole  
Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

Appendices:

Figure 1 Site Receptor Map  
Appendix A Referenced Well Records  
Appendix B Final C-141 and Termination Request (July 2, 2014)  
Appendix C Photographic Log



FIGURES





## APPENDIX A

### Referenced Well Records

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Project Name: MCA 123 Injection Line Release

Borehole Location: GPS: 32.810847°, -103.743217°      Surface Elevation: 3973 ft

Borehole Number: BH-4      Borehole Diameter (in.): 8      Date Started: 3/23/2020      Date Finished: 3/23/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	WATER LEVEL OBSERVATIONS										DEPTH (ft)	REMARKS				
			CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	While Drilling			Upon Completion of Drilling			
			ExStik	PID														
5			208	1.6														
			361	1.7														
			657	1.9														
			2.0	2.1														
			2.03	1.9														
10			1.95	2														
15			9.45	3.1														
20			3.75	3.2														
25			2.81	1.4														

<b>Sampler Types:</b> <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> California <input type="checkbox"/> Test Pit	<b>Operation Types:</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Wash Rotary <input type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Devin Dominguez      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

212C-MD-02067	<b>TETRA TECH</b>	<b>LOG OF BORING BH-4</b>	Page 2 of 3
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Project Name: MCA 123 Injection Line Release

Borehole Location: GPS: 32.810847°, -103.743217°      Surface Elevation: 3973 ft

Borehole Number: BH-4      Borehole Diameter (in.): 8      Date Started: 3/23/2020      Date Finished: 3/23/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
												WATER LEVEL OBSERVATIONS While Drilling <input checked="" type="checkbox"/> DRY ft    Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft Remarks:		
30		X	1.87	1.7							[Symbol]	29	-SM- SILTY SAND; Tan, dense, dry, with no odor, with no staining.	BH-4 (29'-30')
35		X									[Symbol]			BH-4 (34'-35')
40		X	1.67	1.8							[Symbol]	39	-CL- CLAYSTONE; Red, moderately hard, moist, with no odor, with no staining.	BH-4 (39'-40')
45											[Symbol]			
50		X	587	1.7							[Symbol]			BH-4 (49'-50')

<b>Sampler Types:</b> <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Shelby <input type="checkbox"/> Vane Shear <input type="checkbox"/> Bulk Sample <input checked="" type="checkbox"/> California <input type="checkbox"/> Grab Sample <input type="checkbox"/> Test Pit	<b>Operation Types:</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Hand Auger <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Wash Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Devin Dominguez      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling

212C-MD-02067	<b>TETRA TECH</b>	<b>LOG OF BORING BH-4</b>	Page 3 of 3
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Borehole Number: BH-4      Borehole Diameter (in.): 8      Date Started: 3/23/2020      Date Finished: 3/23/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	MATERIAL DESCRIPTION	REMARKS
												While Drilling	Upon Completion of Drilling		
												Remarks:			
55															
60			491	1.4											BH-4 (59'-60')

Bottom of borehole at 60.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Devin Dominguez      Drilling Equipment: Air Rotary      Driller: Scarborough Drilling



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	RA 12721 POD5	2 4 4	28	17S	32E	615650	3629961

<b>Driller License:</b> 1456	<b>Driller Company:</b> WHITE DRILLING COMPANY		
<b>Driller Name:</b> WHITE, JOHNNOWN.GENER			
<b>Drill Start Date:</b> 04/27/2020	<b>Drill Finish Date:</b> 04/28/2020	<b>Plug Date:</b>	
<b>Log File Date:</b> 05/18/2020	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b> 2.00	<b>Depth Well:</b> 130 feet	<b>Depth Water:</b> 124 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	109	121	Sandstone/Gravel/Conglomerate
	121	125	Sandstone/Gravel/Conglomerate
	125	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	130

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



## APPENDIX B

Final C-141 and  
Termination Request (July 2, 2014)

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HOBBS OCD

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

State of New Mexico  
Energy Minerals and Natural Resources

JUL 15 2014

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in  
concordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company ConocoPhillips	Contact
Address 29 Vacuum Complex Lane	Telephone No.
Facility Name MCA 2F Header	Facility Type Header

Surface Owner BLM	Mineral Owner BLM	API No. 3002500718
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	Lea

Latitude 32.8037075642669 Longitude -103.752155401928

NATURE OF RELEASE

Type of Release Spill	Volume of Release 11.7 BBLs	Volume Recovered 5 BBLs
Source of Release 2 inch steel flow line	Date and Hour of Occurrence 10/17/13 7:20 am	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Trisha Bad Bear/Geoffrey Leking	
By Whom? David May	Date and Hour 10/18/13 2:50 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve plug.

Describe Area Affected and Cleanup Action Taken.\* The release affected a total of 3,485 square feet of lease pad and pasture land. RECS personnel were on site beginning on December 10<sup>th</sup>, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7<sup>th</sup>, 2014, four points within the release area were sampled at the surface and with depth. The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15<sup>th</sup>, 2014. BLM approved the CAP on April 16<sup>th</sup>, 2014 and NMOCD approved the CAP on April 22<sup>nd</sup>, 2014. BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean. Corrective actions began at the site on May 9<sup>th</sup>, 2014. The site was scraped down by hand and backhoe as stated in the approved CAP. A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis. All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect. On May 22<sup>nd</sup>, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23<sup>rd</sup>, 2014, and NMOCD approved the site to be backfilled on May 27<sup>th</sup>, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30<sup>th</sup>, 2014, the scraped pasture area and the adjacent areas with little vegetation were seeded with BLM mix #2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Sean Roberson</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: SEAN ROBERSON	Approved by Environmental Specialist:	
Title: OPERATIONS SUPERVISOR	Approval Date: 7-15-14	Expiration Date: _____
E-mail Address: SEAN.T.ROBERSON@cp.com	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: 7/2/14 Phone: 575-390-8873		7-19-3176

\* Attach Additional Sheets If Necessary

JUL 15 2014

ogrid 217819  
NTO 1419039129  
PTO 1419 639441



# CONOCOPHILLIPS

P.O. Box 2197  
Houston, TX 77252-2197  
Phone 281.293.1000

## MCA 2F Header

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# Termination Request

API No. 3002500718

Release Date: October 17<sup>th</sup>, 2013

Unit Letter J, Section 27, Township 17S, Range 32E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

July 2<sup>nd</sup>, 2014

**Tomáš 'Doc' Oberding, PhD**

Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240

RE: **Termination Request**  
**ConocoPhillips MCA 2F Header**  
**UL/J sec. 27 T17S R32E**  
**API No. 3002500718**

Dr. Oberding:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

### **Background and Previous Work**

The site is located approximately 3.6 miles south of Maljamar, New Mexico at UL/J sec. 27 T17S R32E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 65 +/- feet.

On October 17<sup>th</sup>, 2013, CoP discovered a release of 11.7 barrels of fluid from an abandoned 2 inch steel line connected to a 12 inch truck line by a butterfly valve. The butterfly valve leaked and the line was disconnected and replaced with a ball valve and plug. The release affected a total of 3,485 square feet of lease pad and pasture land. Five barrels of fluid was recovered from the site. NMOCD and BLM were notified of the release on October 18<sup>th</sup>, 2013 and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on December 10<sup>th</sup>, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7<sup>th</sup>, 2014, four points within the release area were sampled at the surface and with depth (Figure 1). The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B).

Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15<sup>th</sup>, 2014. BLM approved the CAP on April 16<sup>th</sup>, 2014 and NMOCD approved the CAP on April 22<sup>nd</sup>, 2014. As part of the CAP, the release area would be scraped down one foot using a backhoe in the easily accessible areas and by hydrovac and by hand in the southern area of the release where active lines inhibit easy access. The remainder of the contamination from the release would be addressed during site abandonment. All excavated soils would be disposed of at a NMOCD approved facility. Clean soil would be imported to the site to serve as

backfill and to contour the site to the surrounding location. A sample of the imported soil would be taken to a commercial laboratory for analysis to confirm that the constituents are below regulatory standards. Soil amendments would be added to the pasture area as needed and then seeded with a blend of native vegetation.

BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean (Figure 2).

Corrective actions began at the site on May 9<sup>th</sup>, 2014. The site was scraped down by hand and backhoe as shown in the approved Corrective Action Plan Stipulations map (Figure 3). A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis (Appendix C). All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect.

On May 22<sup>nd</sup>, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23<sup>rd</sup>, 2014, and NMOCD approved the site to be backfilled on May 27<sup>th</sup>, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30<sup>th</sup>, 2014, the scraped pasture area and the adjacent areas with little vegetation were seeded with BLM mix #2.

Photo documentation of these activities can be found in Appendix D.

Given that the site was scraped in accordance with the approved CAP and backfilled with clean, imported soil, CoP respectfully requests 'remediation termination' and site closure. The remainder of the contamination from the release will be addressed during site abandonment. A final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

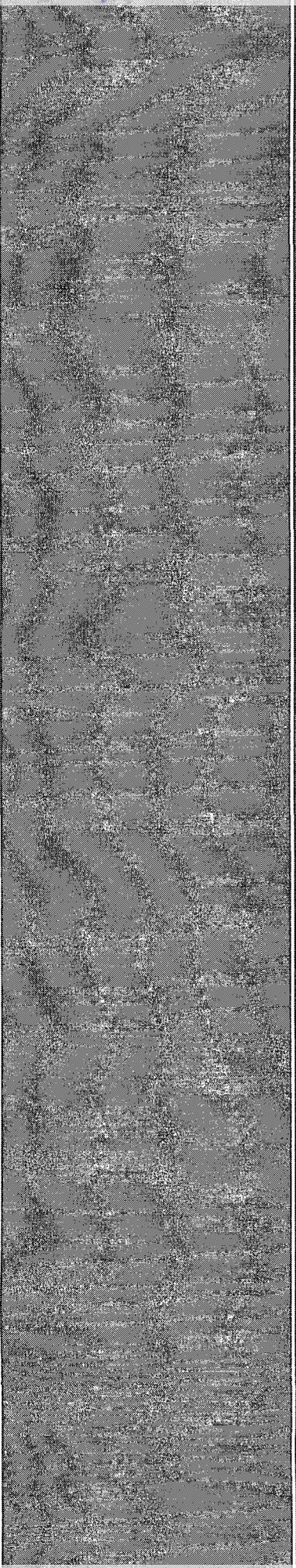
Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

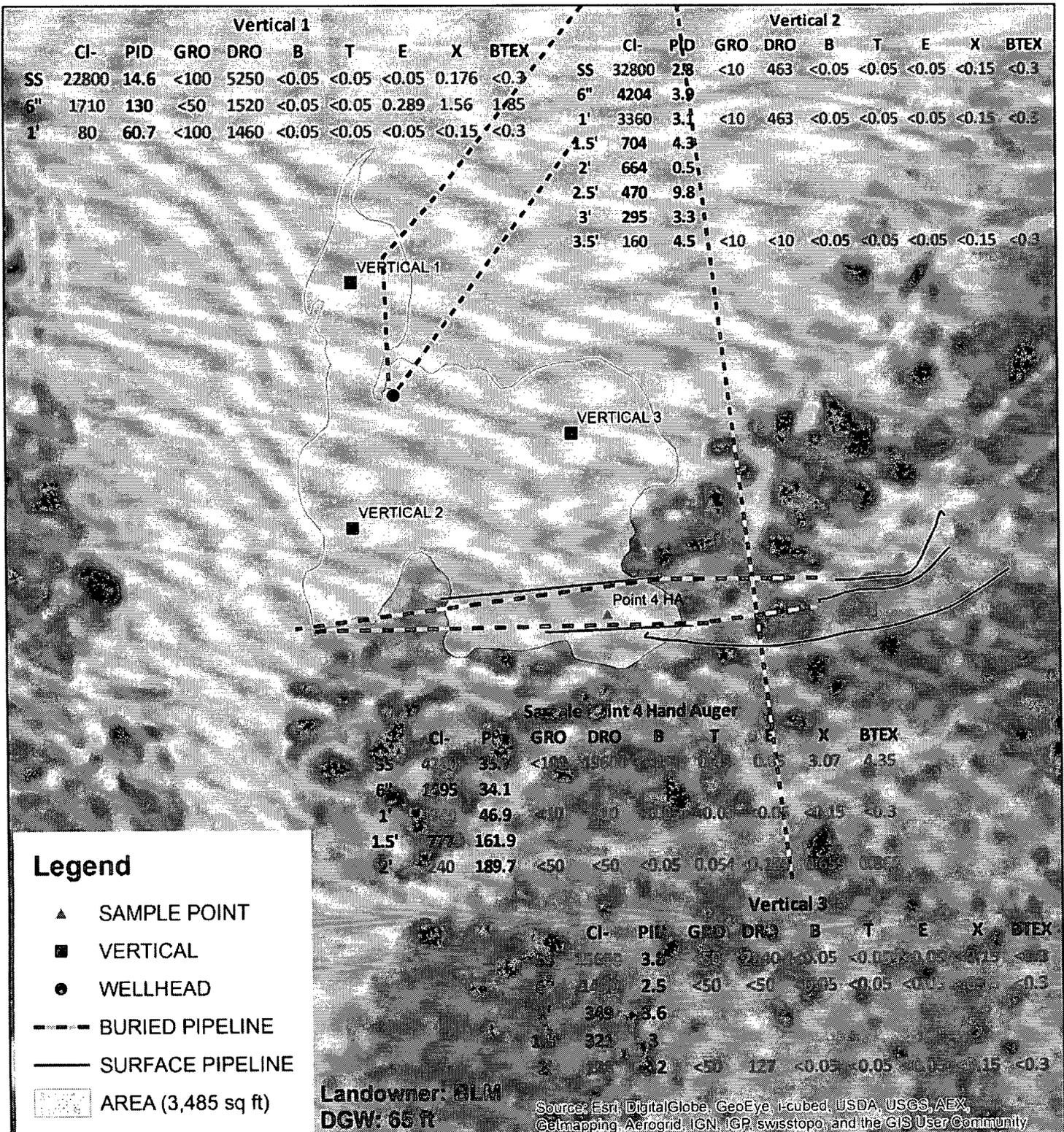
- Figure 1 – Vertical Data
- Figure 2 – Corrective Action Plan Stipulations
- Figure 3 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Excavation Sampling Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141



# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Vertical Data



**Legend**

- ▲ SAMPLE POINT
- VERTICAL
- WELLHEAD
- BURIED PIPELINE
- SURFACE PIPELINE
- ▨ AREA (3,485 sq ft)

Landowner: BLM  
DGW: 65 ft

Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**CONOCOPHILLIPS**  
**MCA 2F HEADER**

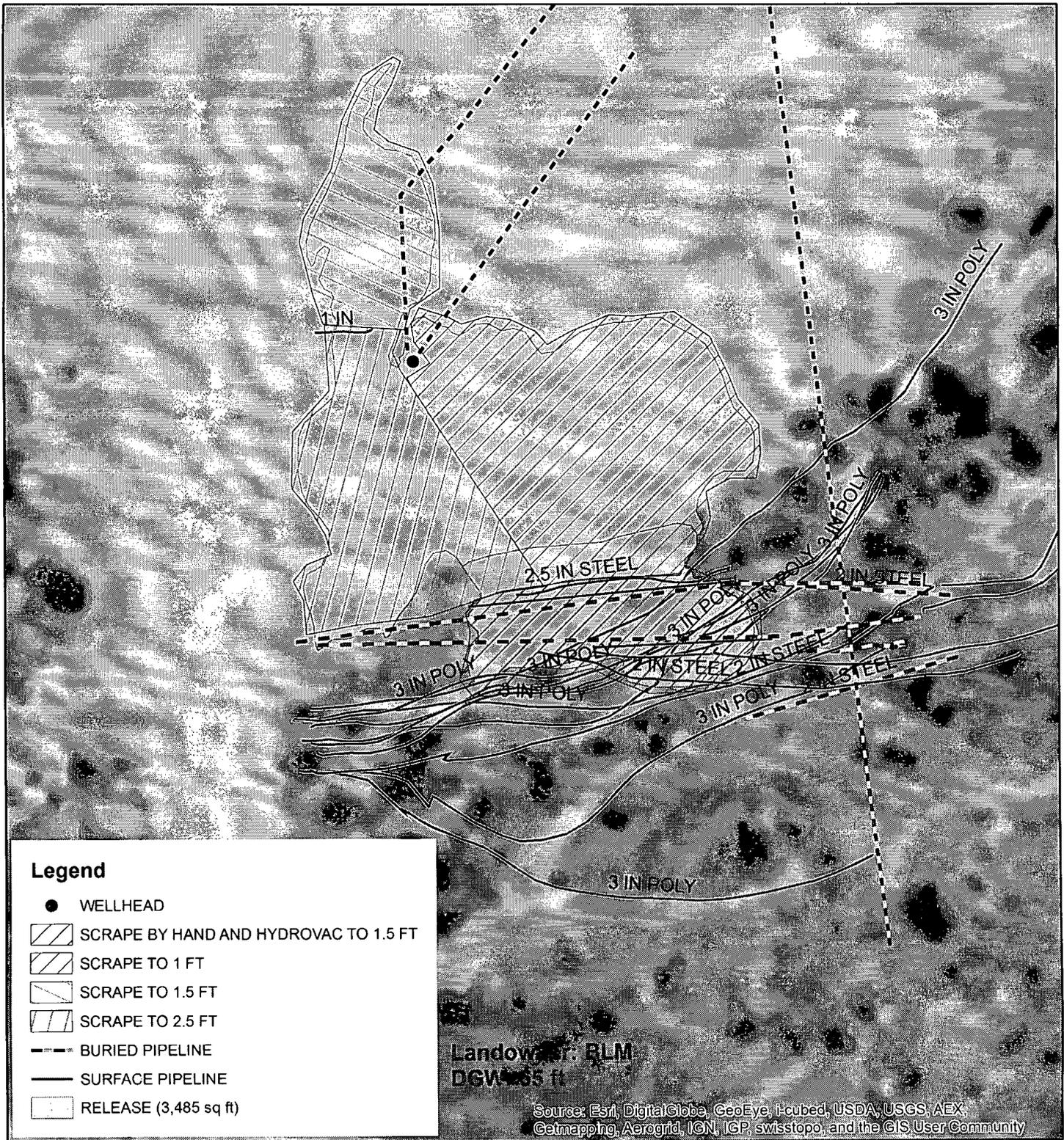
LEGALS: UL/J sec. 27  
T-17-S R-32-E  
LEA COUNTY, NM

**Figure 1**

0 10 20  
Feet

GPS date: 4/7/14 EC  
Drawing date: 4/9/14  
Drafted by: C. Ursanic

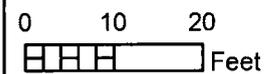
# Corrective Action Plan Stipulations



## CONOCOPHILLIPS MCA 2F HEADER

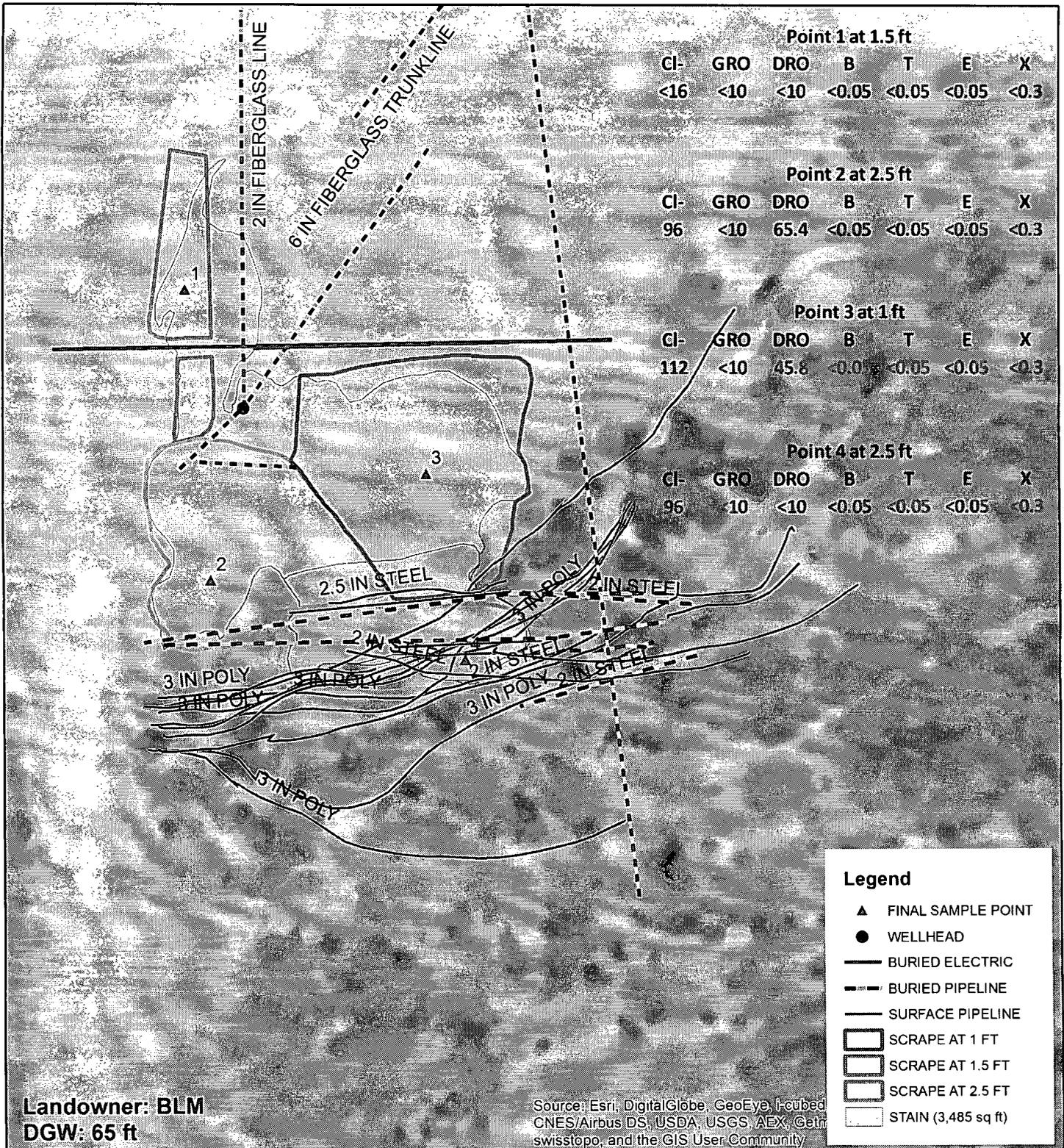
LEGALS: UL/J sec. 27  
T-17-S R-32-E  
LEA COUNTY, NM

### Figure 2



GPS date: 4/7/14 EC  
Drawing date: 4/22/14  
Drafted by: L. Weinheimer

# Excavation Data



Landowner: BLM  
DGW: 65 ft

Source: Esri, DigitalGlobe, GeoEye, i-cubed, CNES/Airbus DS, USDA, USGS, AEX, Getm, swisstopo, and the GIS User Community

**Legend**

- ▲ FINAL SAMPLE POINT
- WELLHEAD
- BURIED ELECTRIC
- - - BURIED PIPELINE
- SURFACE PIPELINE
- SCRAPE AT 1 FT
- SCRAPE AT 1.5 FT
- SCRAPE AT 2.5 FT
- STAIN (3,485 sq ft)

**CONOCOPHILLIPS**  
**MCA 2F HEADER**

LEGALS: UL/J sec. 27  
T-17-S R-32-E  
LEA COUNTY, NM

**Figure 3**

GPS date: 5/21/14 CF  
Drawing date: 5/22/14  
Drafted by: L. Weinheimer

# Appendix A

Initial C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>David May</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3106</b>
Facility Name: <b>MCA 2F Header</b>	Facility Type: <b>Header</b>
Surface Owner: <b>BLM</b>	Mineral Owner: <b>BLM</b>
API No. <b>3002500718</b>	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	LEA

Latitude **32.8037075642669**

Longitude **-103.752155401928**

#### NATURE OF RELEASE

Type of Release: <b>Spill</b>	Volume of Release: <b>11.7 BBLS</b>	Volume Recovered: <b>5 BBLS</b>
Source of Release: <b>2 inch steel flow line</b>	Date and Hour of Occurrence <b>10/17/13 7:20 am</b>	Date and Hour of Discovery <b>SAME</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Trish Bad Bear/Geoffrey Leking</b>	
By Whom? <b>David May</b>	Date and Hour: <b>10/18/13 2:50 pm</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve and plug.		
Describe Area Affected and Cleanup Action Taken.* . Affected area was 60 feet X 60 feet. Spill will be remediated according to BLM requirements.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

#### OIL CONSERVATION DIVISION

Signature:	Approved by Environmental Specialist:	
Printed Name: <b>David May</b>	Approval Date:	Expiration Date:
Title: <b>LEAD HSE</b>	Conditions of Approval:	
E-mail Address: <b>david.d.may@conocophillips.com</b>	Attached <input type="checkbox"/>	
Date: <b>10/18/13</b>	Phone: <b>575-391-3106</b>	

\* Attach Additional Sheets If Necessary

# Appendix B

## Initial Sampling Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

April 08, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 04/07/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #1 SURFACE (H401054-01)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
<b>Total Xylenes*</b>	<b>0.176</b>	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>22800</b>	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	04/08/2014	ND	188	94.2	200	2.05			
<b>DRO &gt;C10-C28</b>	<b>5250</b>	100	04/08/2014	ND	206	103	200	1.70			

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #1 6" (H401054-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<b>0.289</b>	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<b>1.56</b>	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
<b>Total BTEX</b>	<b>1.85</b>	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 221 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1710</b>	16.0	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
<b>DRO &gt;C10-C28</b>	<b>1520</b>	50.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #1 1' (H401054-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	1460	100	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 169 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #2 SURFACE (H401054-04)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32800	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	463	10.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #2 1' (H401054-05)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #2 3.5' (H401054-06)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/08/2014	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	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<10.0	10.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #3 SURFACE (H401054-07)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15600	16.0	04/08/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05			
DRO >C10-C28	2940	50.0	04/08/2014	ND	206	103	200	1.70			

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 63.6-154

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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #3 6" (H401054-08)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
DRO >C10-C28	<50.0	50.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/07/2014	Sampling Date:	04/07/2014
Reported:	04/08/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: VERTICAL #3 2' (H401054-09)**

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	04/08/2014	ND	2.13	106	2.00	3.71		
Toluene*	<0.050	0.050	04/08/2014	ND	2.17	108	2.00	4.04		
Ethylbenzene*	<0.050	0.050	04/08/2014	ND	2.16	108	2.00	4.18		
Total Xylenes*	<0.150	0.150	04/08/2014	ND	6.29	105	6.00	4.72		
Total BTEX	<0.300	0.300	04/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>128</b>	16.0	04/08/2014	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	<50.0	50.0	04/08/2014	ND	188	94.2	200	2.05		
<b>DRO &gt;C10-C28</b>	<b>127</b>	50.0	04/08/2014	ND	206	103	200	1.70		

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

April 09, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 04/08/14 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: POINT 4 @ SURFACE (H401066-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	<b>0.430</b>	0.200	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	<b>0.850</b>	0.200	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<b>3.07</b>	0.600	04/09/2014	ND	5.81	96.8	6.00	3.75		
<b>Total BTEX</b>	<b>4.35</b>	1.20	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>4280</b>	16.0	04/09/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	04/09/2014	ND	203	101	200	3.60			
<b>DRO &gt;C10-C28</b>	<b>19600</b>	100	04/09/2014	ND	219	109	200	6.96			

Surrogate: 1-Chlorooctane 152 % 65.2-140

Surrogate: 1-Chlorooctadecane 648 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: POINT 4 @ 1' (H401066-02)**

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	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	<0.050	0.050	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	<0.050	0.050	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<0.150	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75		
Total BTEX	<0.300	0.300	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1740	16.0	04/09/2014	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	04/09/2014	ND	203	101	200	3.60		
DRO >C10-C28	<10.0	10.0	04/09/2014	ND	219	109	200	6.96		

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	04/08/2014	Sampling Date:	04/08/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: POINT 4 @ 2' (H401066-03)**

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	04/09/2014	ND	2.19	109	2.00	4.47		
Toluene*	<b>0.054</b>	0.050	04/09/2014	ND	2.09	105	2.00	3.09		
Ethylbenzene*	<b>0.155</b>	0.050	04/09/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<b>0.659</b>	0.150	04/09/2014	ND	5.81	96.8	6.00	3.75		
<b>Total BTEX</b>	<b>0.868</b>	0.300	04/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	04/09/2014	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	<50.0	50.0	04/09/2014	ND	203	101	200	3.60		
DRO >C10-C28	<50.0	50.0	04/09/2014	ND	219	109	200	6.96		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

*\*Rush\**

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 6 of 6

Company Name: <u>RECS</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: <u>Kyle Norman</u>				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS													
Address:				Company:																	
City: Hobbs State: NM Zip: 88240				Attn:																	
Phone #: Fax #:				Address:																	
Project #: Project Owner:				City:																	
Project Name: <u>CoP</u>				State: Zip:																	
Project Location: <u>MCA 2F Header</u>				Phone #:																	
Sampler Name: <u>Chris Flores</u>				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	G/RAB OR (COMP. # CONTAINERS	MATRIX									PRESERV.		SAMPLING							
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
<u>H4010db</u>																					
<u>1</u>	<u>Point 4 @ Surface</u>	<u>G 1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4-8-14</u>	<u>1:35 pm</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<u>2</u>	<u>Point 4 @ 1'</u>	<u>G 1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4-8-14</u>	<u>1:40 pm</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<u>3</u>	<u>Point 4 @ 2'</u>	<u>G 1</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>4-8-14</u>	<u>1:45 pm</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

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, or 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: <u>[Signature]</u>	Date: <u>4-8-14</u> Time: <u>2:50</u>	Received By: <u>Jodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <u>[Signature]</u>	REMARKS: email results knorman@ iflores@ cflores@ samples taken & brought directly to lab. <u>[Signature]</u>

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Appendix C

## Excavation Sampling Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

May 22, 2014

KYLE NORMAN  
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC  
419 W. CAIN  
HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 05/21/14 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: EXC. #1 BTTM SAMPLE GRAB @ 1.5' (H401564-01)**

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: EXC. #2 BTM SAMPLE GRAB @ 2.5' (H401564-02)**

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	65.4	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: EXC. #3 BTTM SAMPLE GRAB @ 1' (H401564-03)**

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	45.8	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 7



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	05/21/2014	Sampling Date:	05/21/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: EXC. #4 BTM SAMPLE GRAB @ 2.5' (H401564-04)**

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	05/22/2014	ND	2.26	113	2.00	2.72		
Toluene*	<0.050	0.050	05/22/2014	ND	2.21	111	2.00	2.27		
Ethylbenzene*	<0.050	0.050	05/22/2014	ND	2.14	107	2.00	2.39		
Total Xylenes*	<0.150	0.150	05/22/2014	ND	6.72	112	6.00	2.43		
Total BTEX	<0.300	0.300	05/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/22/2014	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	05/22/2014	ND	202	101	200	3.08		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	219	110	200	5.82		

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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---

May 28, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA 2 F HEADER

Enclosed are the results of analyses for samples received by the laboratory on 05/27/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 "Caley D. Keene". The signature is fluid and cursive.

Caley D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

Received:	05/27/2014	Sampling Date:	05/27/2014
Reported:	05/28/2014	Sampling Type:	Soil
Project Name:	MCA 2 F HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: IMPORTED BASE COARSE (H401623-01)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/28/2014	ND	416	104	400	3.77	

**Sample ID: IMPORTED TOP SOIL (H401623-02)**

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



*\*Rush\**

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 4 of 4

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name: <b>DECS</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																				
Project Manager: <b>Laura Flores, Kyle Norman</b>		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																				
Address:		Company:																						
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: <b>Conasa Phillips</b>		State: Zip:																						
Project Location: <b>MC# 2F Hendey</b>		Phone #:																						
Sampler Name: <b>Chris Flores</b>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP	# CONTAINERS												MATRIX						PRESERV		SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:												
<b>H401623</b>																								
	<b>Impacted Base Course</b>	<b>G</b>	<b>1</b>											<b>5-27-2014</b>	<b>1:15 PM</b>									
<b>2</b>	<b>Impacted Top Soil</b>	<b>G</b>	<b>1</b>											<b>5-27-2014</b>	<b>2:10 PM</b>									

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Relinquished By: <i>Chris Flores</i>	Date: <b>5-27-2014</b>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <b>4:30</b>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <i>eflores@rice-ecs.com</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	<i>[Signature]</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**#54**

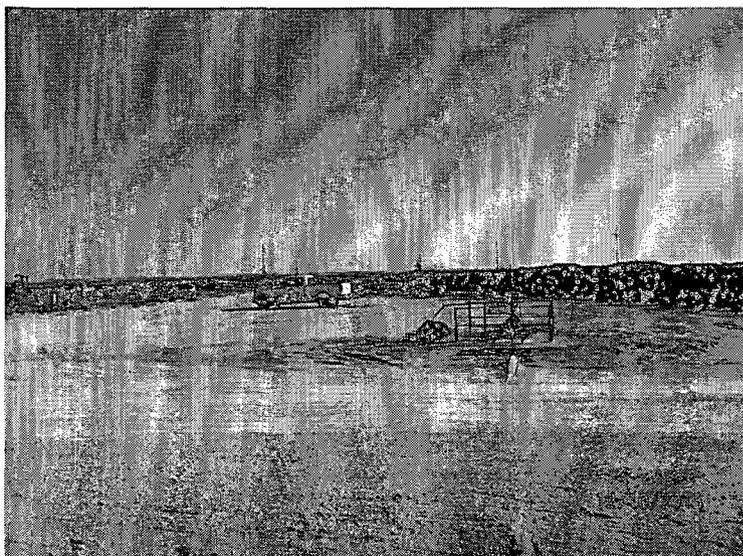
# Appendix D

## Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

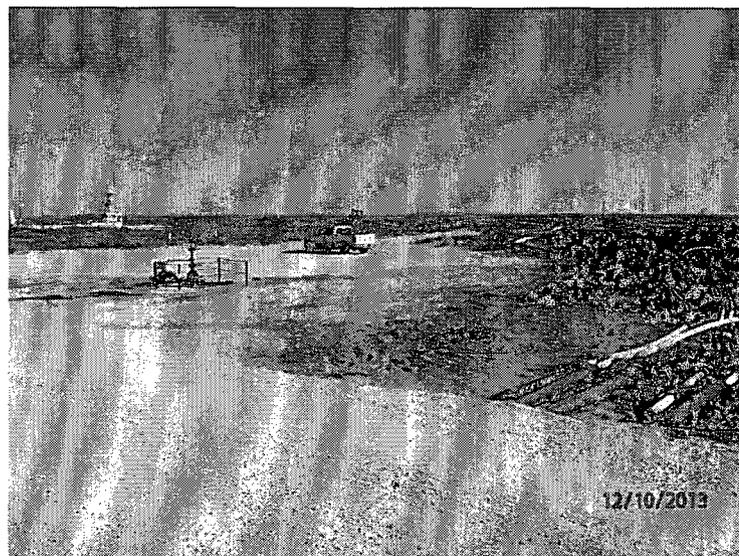
# ConocoPhillips MCA 2F Header

Unit Letter J, Section 27, T17S, R32E



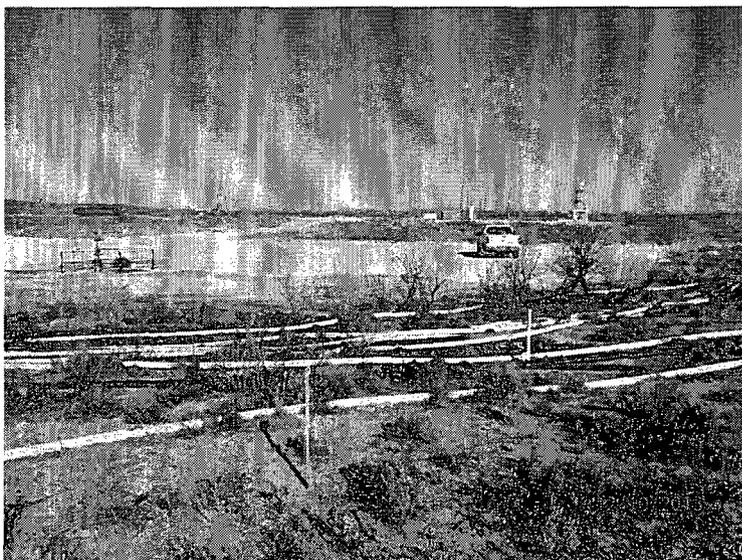
Initial site photo, facing east

12/10/13



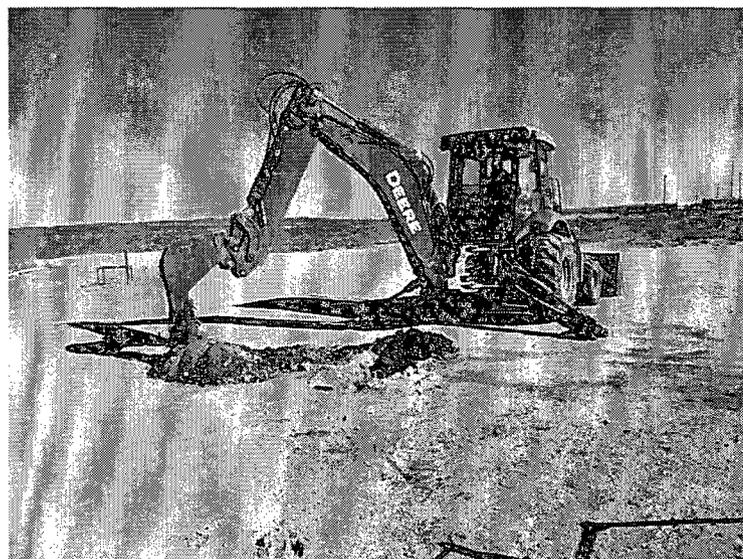
Initial site photo, facing northeast

12/10/13



Initial site photo, facing north

12/10/13

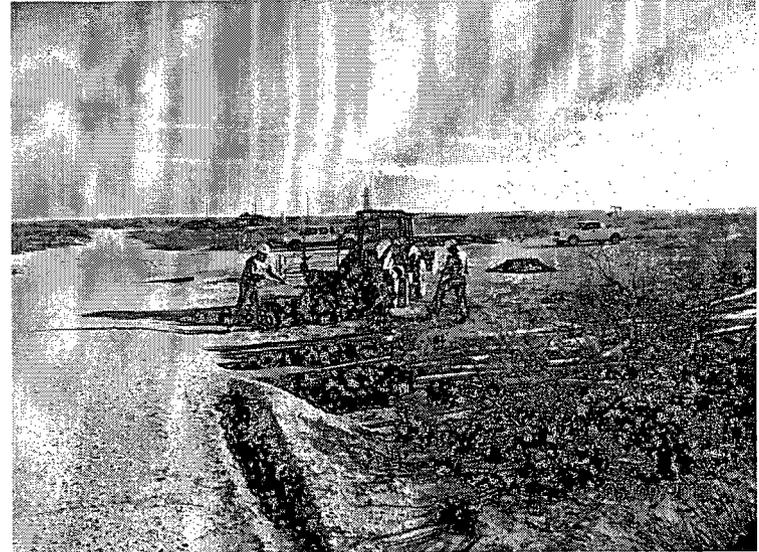


Installing verticals, facing northwest

4/7/14



Hand auguring Point 4, facing northwest 4/8/14



Shoveling release area, facing northeast 5/9/14



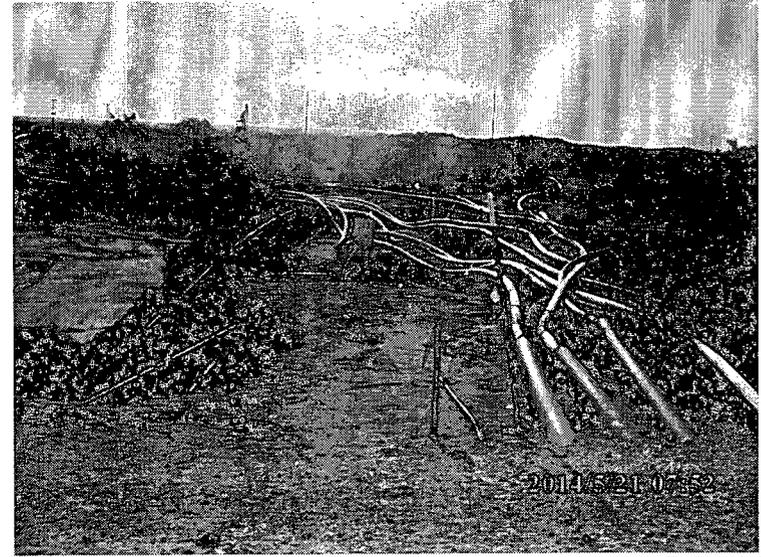
Sampling the hand shoveled scrape, facing west 5/15/14



Excavating site, facing northeast 5/20/14



Excavating site, facing southeast 5/20/14



Excavation completed, facing east 5/21/14



Excavation completed, facing west 5/21/14



Excavation completed, facing east 5/21/14



Exporting soil, facing northeast

5/21/14



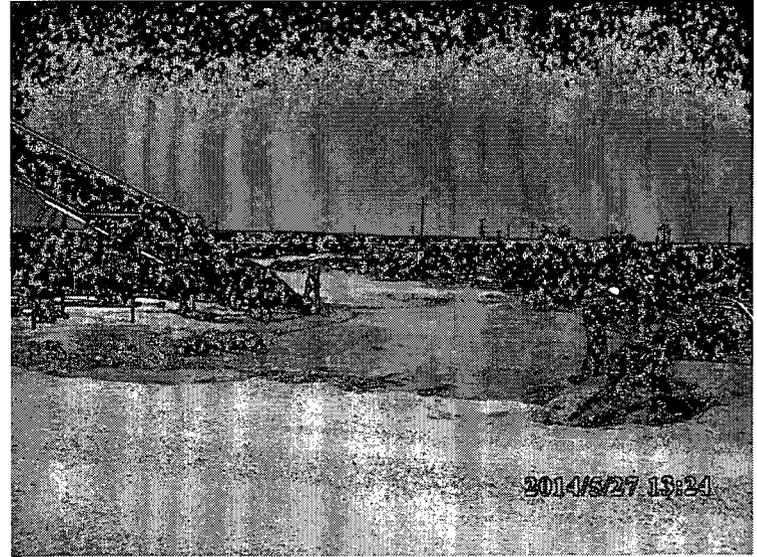
Importing caliche, facing northeast

5/27/14



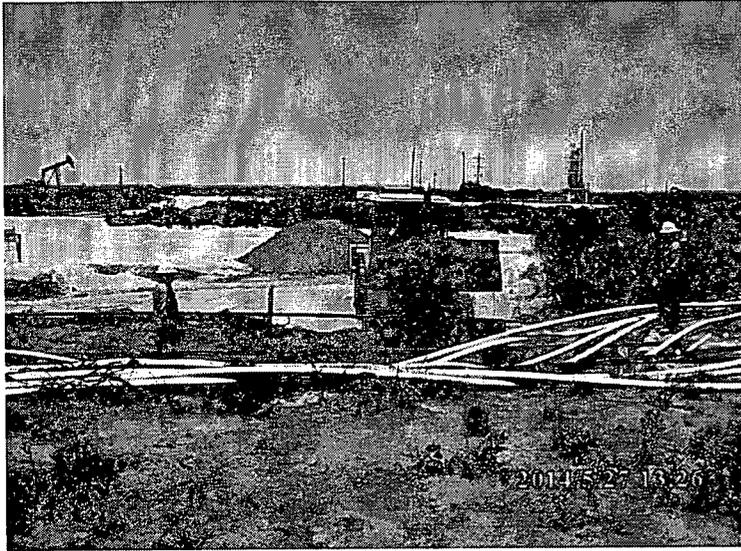
Backfilling site, facing northeast

5/27/14



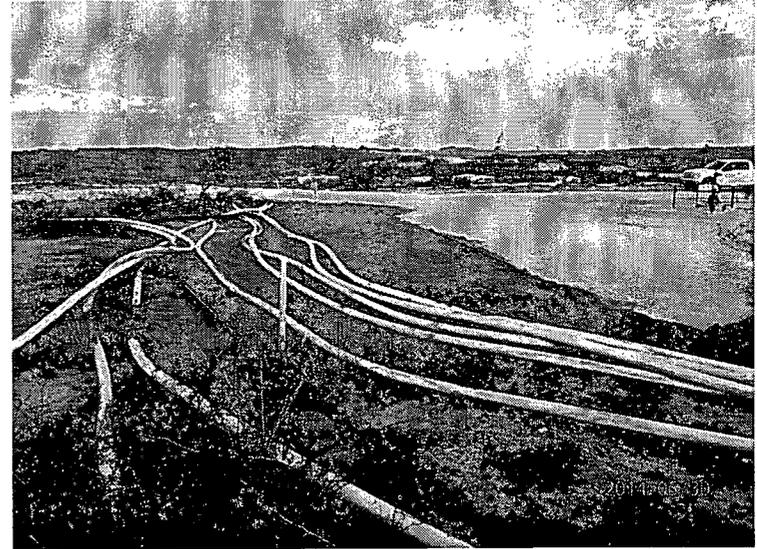
Importing top soil, facing northeast

5/27/14



Backfilling site, facing north

5/27/14



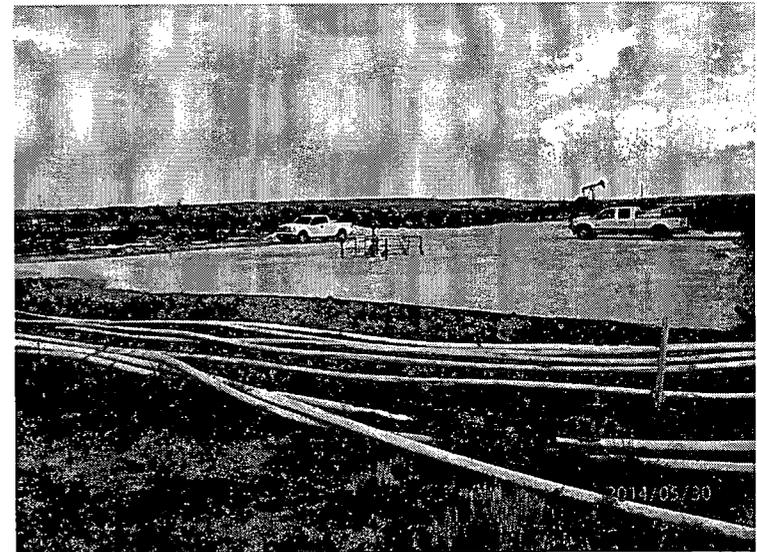
Backfill completed, facing east

5/30/14



Backfill completed, facing east

5/30/14



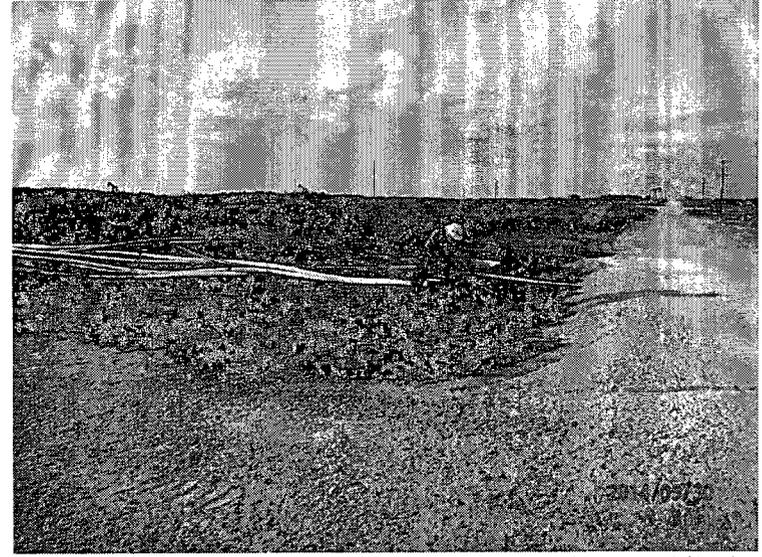
Backfill completed, facing northwest

5/30/14



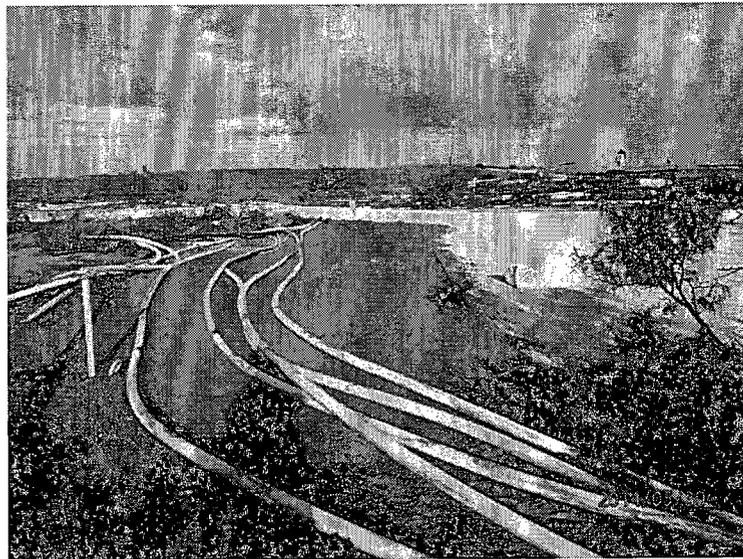
Seeding site, facing south

5/30/14



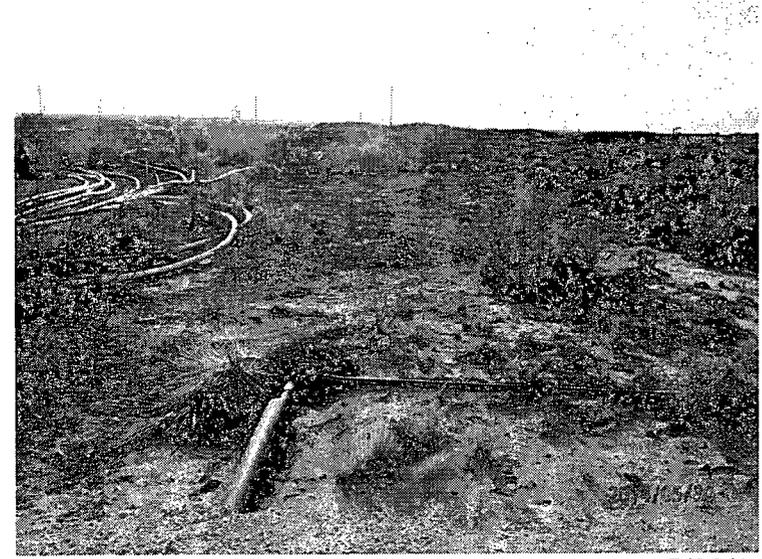
Raking the seed into the site, facing south

6/30/14



Site completed, facing east

5/30/14



Site completed, facing west

5/30/14

# Appendix E

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	ConocoPhillips	Contact	
Address	29 Vacuum Complex Lane	Telephone No.	
Facility Name	MCA 2F Header	Facility Type	Header
Surface Owner	BLM	Mineral Owner	BLM
		API No.	3002500718

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	27	17S	32E	1980	South	1980	East	Lea

Latitude 32.8037075642669 Longitude -103.752155401928

**NATURE OF RELEASE**

Type of Release	Spill	Volume of Release	11.7 BBLS	Volume Recovered	5 BBLS
Source of Release	2 inch steel flow line	Date and Hour of Occurrence	10/17/13 7:20 am	Date and Hour of Discovery	SAME
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Trisha Bad Bear/Geoffrey Leking		
By Whom?	David May	Date and Hour	10/18/13 2:50 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Release was caused by external corrosion. Abandoned line was connected to a 12" trunk line with a butterfly valve that was leaking. Line was disconnected from butterfly valve and was replaced with ball valve plug.

Describe Area Affected and Cleanup Action Taken.\* The release affected a total of 3,485 square feet of lease pad and pasture land. RECS personnel were on site beginning on December 10<sup>th</sup>, 2013 to assess the release. The release was photographed and mapped. Beginning on April 7<sup>th</sup>, 2014, four points within the release area were sampled at the surface and with depth. The samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Based on the laboratory data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on April 15<sup>th</sup>, 2014. BLM approved the CAP on April 16<sup>th</sup>, 2014 and NMOCD approved the CAP on April 22<sup>nd</sup>, 2014. BLM had one stipulation as part of their approval. They stated that Point 4 must be excavated to 1.5 ft and shown to be clean. Corrective actions began at the site on May 9<sup>th</sup>, 2014. The site was scraped down by hand and backhoe as stated in the approved CAP. A total of 285 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A final sample was taken at the base of each scrape, including Point 4 as requested by BLM, and sent to a commercial laboratory for analysis. All constituents from each sample point returned results below regulatory standards. A total of 205 cubic yards of base coarse caliche and 80 cubic yards of top soil were imported to the site to serve as backfill. A composite sample from the imported base coarse caliche and the imported top soil were taken to a commercial laboratory for analysis. The imported base coarse caliche returned a laboratory chloride reading of 112 mg/kg, and the imported top soil returned a laboratory chloride reading of non-detect. On May 22<sup>nd</sup>, 2014, RECS requested permission to backfill the site from NMOCD and BLM. BLM approved the site to be backfilled on May 23<sup>rd</sup>, 2014, and NMOCD approved the site to be backfilled on May 27<sup>th</sup>, 2014. The pasture area was backfilled with the imported top soil and the lease pad was backfilled with the imported base coarse caliche. Both areas were contoured to their surrounding locations. On May 30<sup>th</sup>, 2014, the scraped pasture area and the adjacent areas with little vegetation were seeded with BLM mix #2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	SEAN T. ROBERSON	Approved by Environmental Specialist:	
Title:	OPERATIONS SUPERVISOR	Approval Date:	Expiration Date:
E-mail Address:	SEAN.T.ROBERSON@cp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	7/2/14	Phone:	575-390-8873

\* Attach Additional Sheets If Necessary



## APPENDIX C

### Photographic Log

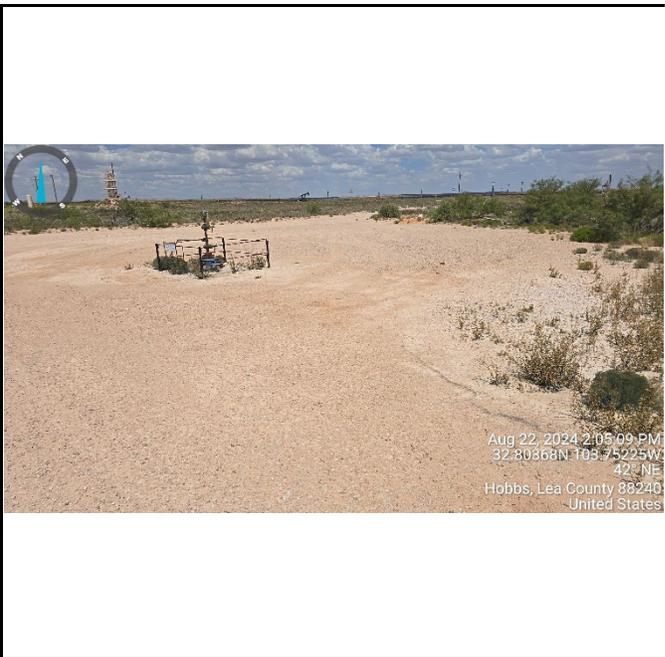
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**Photographic Log**  
 Maverick Permian, LLC  
 MCA Unit #184  
 Incident Number NSAP0230953082



Photograph 1                                      Date: 8-22-2024  
 Description: Historical release area  
 View: Southeast



Photograph 2                                      Date: 8-22-2024  
 Description: Historical release area  
 View: Northeast



Photograph 3                                      Date: 8-22-2024  
 Description: Historical release area  
 View: East



Photograph 4                                      Date: 8-22-2024  
 Description: Historical release area  
 View: South

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

QUESTIONS

Action 378356

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nSAP0230953082
Incident Name	NSAP0230953082 MCA UNIT #184 @ 30-025-00718
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-00718] MCA UNIT #184

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	MCA UNIT #184
Date Release Discovered	09/12/2002
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause:    Produced Water   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 378356

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using:                  (2) an unauthorized release of a volume that:                  (b) may with reasonable probability reach a watercourse.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 08/27/2024
--	--

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**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	378356
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1000 (ft.) and ½ (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	112
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	65.4
GRO+DRO (EPA SW-846 Method 8015M)	65.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

*Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	05/09/2014
On what date will (or did) the final sampling or liner inspection occur	05/21/2014
On what date will (or was) the remediation complete(d)	05/21/2014
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 378356

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 08/27/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 378356

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	378356
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>378412</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>05/21/2014</b>
What was the (estimated) number of samples that were to be gathered	<b>4</b>
What was the sampling surface area in square feet	<b>3485</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>0</b>
What was the total volume (cubic yards) remediated	<b>0</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>0</b>
What was the total volume (in cubic yards) reclaimed	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	Incident Number NTO1419639129 encompassed the release area for the subject Incident Number NSAP0230953082. Based on the historical remediation activities and subsequent closure approval for Incident Number NTO1419639129, Maverick is requesting closure for Incident Number NSAP0230953082.

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Aimee Cole Email: acole@ensolum.com Date: 08/27/2024
--	--

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QUESTIONS, Page 7

Action 378356

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS  
 Action 378356

**CONDITIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 378356
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	9/12/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/12/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/12/2024