



**APPROVED**

# CONOCOPHILLIPS

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

## Warren Unit Satellite 5 (1RP-3486)

---

# Termination Request

API No. 30-025-30473

Release Date: January 3<sup>rd</sup>, 2015

Unit Letter F, Section 28, Township 20S, Range 38E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**May 18<sup>th</sup>, 2016**

**Jamie Keyes**

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

**RE: Corrective Action Plan  
ConocoPhillips Warren Unit Satellite 5 (1RP-3486)  
UL/F sec. 28 T20S R38E  
API No. 30-025-30473**

Mr. Keyes:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 8.3 miles southwest of Monument, New Mexico at UL/F sec. 28 T20S R37E. NM OSE, BLM and Basin installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 62 +/- feet.

On January 3<sup>rd</sup>, 2015, CoP discovered a release from a transfer pump intake line. A total of 15.67 barrels of oil was released over 2,278 sq ft of caliche pad and pasture land with an overspray of 139 sq ft on the caliche pad. None of this fluid was recovered. BLM and NMOCD were notified of the release on January 5<sup>th</sup>, 2015, and an initial C-141 was submitted to both parties the same day. NMOCD approved the initial C-141 on January 7<sup>th</sup>, 2015 (Appendix A).

Basin personnel were on site to assess the release January 6<sup>th</sup>, 2015. The release was mapped and photographed (Figure 1). On August 8<sup>th</sup>, 2015, samples were taken at the surface and with depth and sent to a commercial laboratory for analysis (Appendix B). Laboratory analysis of Point 1 at the surface returned a chloride value of 1,740 mg/kg, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX values of non-detect. At 1 ft bgs, Point 1 returned a chloride reading of 48 mg/kg, GRO, DRO and BTEX values of non-detect. Laboratory analysis of Point 2 at the surface returned a chloride reading of 144 mg/kg, a GRO value of non-detect, a DRO value of 5,000 mg/kg and BTEX values of non-detect. At 6 in bgs, Point 2 returned a chloride value of non-detect, a GRO value of non-detect, a DRO reading of 2,520 mg/kg and BTEX values of non-detect.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on September 30<sup>th</sup>, 2015 and was approved by NMOCD and by BLM on October 1<sup>st</sup>, 2015. Basin recommended that the release be scraped to a depth of 1 ft bgs. . Once the scrape is completed, discreet samples from the bottom of the scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the composite will not achieve chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards, the scrape will be deepened until field testing indicates that all constituents from the bottom composite will return values below regulatory standards. The bottom composite will then be taken to a commercial laboratory to confirm that all constituents return readings are below regulatory standards.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The lease pad will be backfilled with clean, imported caliche and the pasture will be backfilled with clean, imported top soil. The site will be contoured to the surrounding location. The pasture area will be seeded with a blend of native vegetation.

CAP activities began on November 19<sup>th</sup>, 2015. The release was scraped to a depth of 1 ft bgs and 2 discreet samples were obtained from the base of the scrape and sent to a commercial laboratory for analysis (Appendix B). The discreet sample at Pt.1 @1' returned a chloride result of <16 mg/kg, GRO and DRO value of <10 mg/kg and a BTEX value of <.03 mg/kg. The discreet sample at Pt.2 @1' returned a chloride result of 64 mg/kg, GRO value of 829 mg/kg, DRO value of 2160 mg/kg and a BTEX value of <.03 mg/kg. The scrape around Pt.2 was then deepened to a depth of 1.5', then a discreet sample was obtained from the base of the 1.5' scrape and taken to a commercial laboratory for analysis. The discreet sample at Pt.2 @1.5' returned a chloride result of <16 mg/kg, GRO value of <10 mg/kg, DRO value of 426 mg/kg and a BTEX value of <.03 mg/kg. Approximately 100 yards was exported to a NMOCD approved facility for disposal. On November 30<sup>th</sup>, 2015 a request to backfill was submitted to NMOCD and BLM. Basin received backfill approval from NMOCD and from BLM on the same day. Approximately 20 yards top soil and 8 yards caliche were imported to backfill. A sample was taken of the imported soil and sent to a commercial laboratory for analysis. The imported sample returned a chloride result of <16 mg/kg. The scrape was then backfilled with imported materials and contoured to the surrounding area. The pasture area was seeded with native vegetation.

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

Given that the CAP activities have been completed as approved by NMOCD and BLM, Conoco Phillips respectfully request 'remediation termination' and site closure. The final c-141 can be found in Appendix D

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink that reads "Kyle Norman" followed by a horizontal line.

Kyle Norman  
Project Lead  
Basin Environmental Service Technologies  
(575) 942-8542

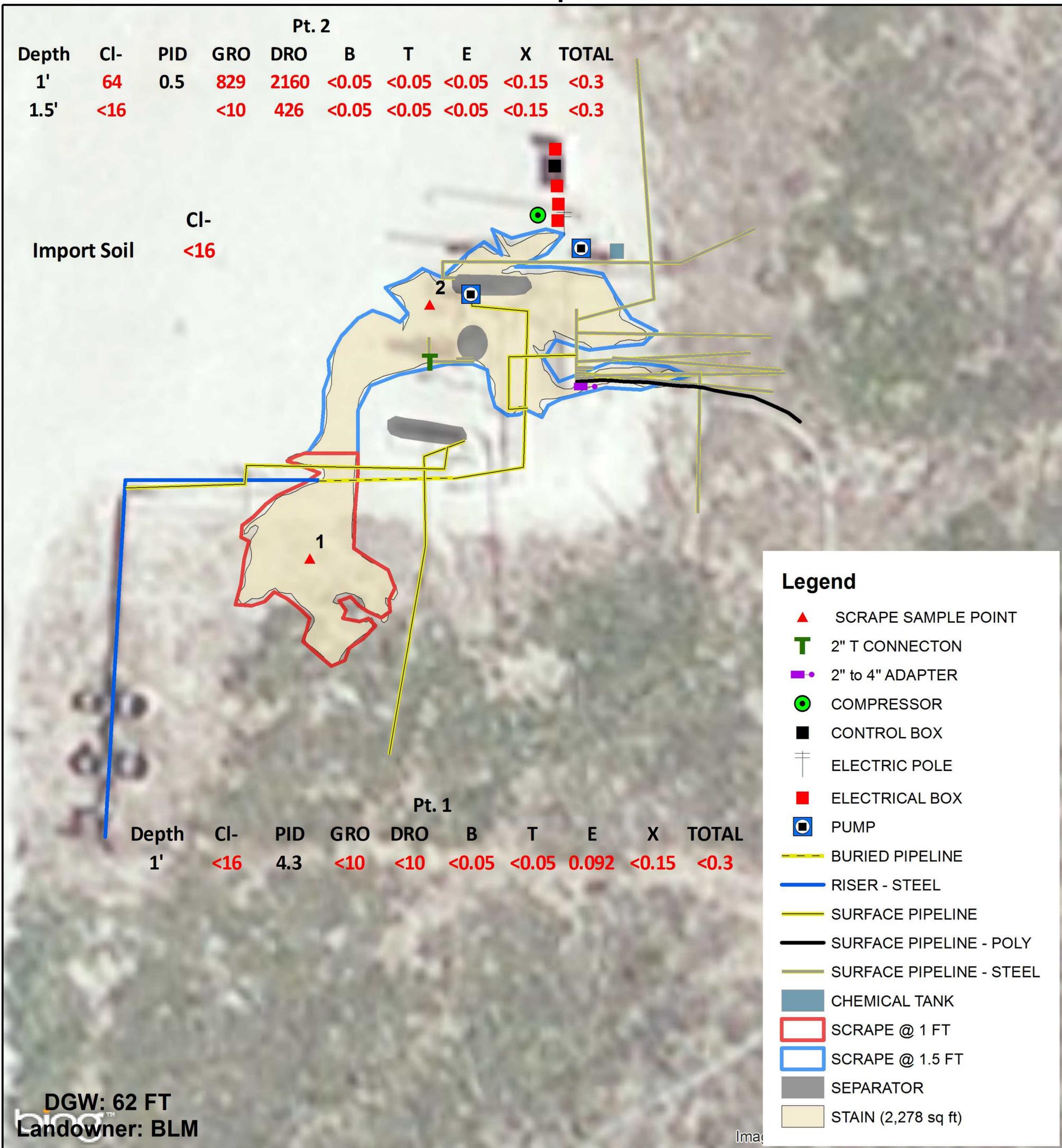
Attachments:

Figure 1 – Proposed Scrape  
Appendix A – Initial C-141  
Appendix B – Laboratory Analysis  
Appendix C – Photo Documentation  
Appendix D- Final C-141

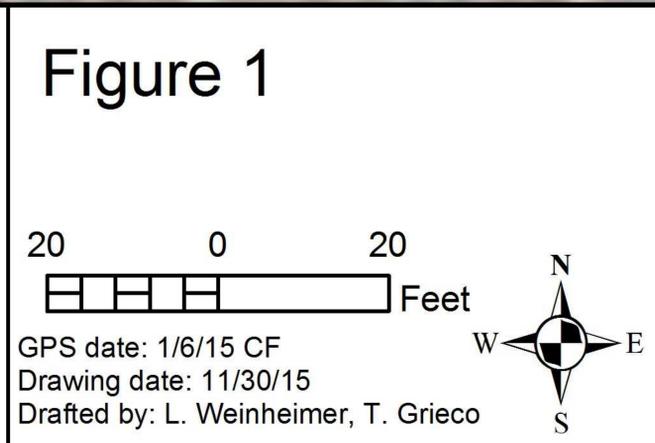
# Figures

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Scrape



**CONOCOPHILLIPS**  
**WARREN UNIT**  
**SATELLITE 5**  
 LEGALS: UL/F SEC. 28  
 T-20-S R-38-E  
 LEA COUNTY, NM  
 NMOCD CASE # 1RP-3486



# Appendix A

Intial C-141

**Basin Environmental Service Technologies, LLC**  
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  
NMOCD 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.

**RECEIVED**  
**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>1410 N West Country Road</b>	Telephone No. <b>575-746-7248</b>
Facility Name: <b>Warren Unit Satellite 5</b>	Facility Type: <b>Satellite</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>BLM</b>	API No. <b>30-025-30473</b>
-----------------------------	---------------------------	-----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	20S	38E	1940	North	2020	West	LEA

Latitude 32.5462164601454 Longitude 103.155469948588

**NATURE OF RELEASE**

Type of Release: <b>Spill</b>	Volume of Release: <b>15.67 BBLS</b>	Volume Recovered: <b>0 BBLS</b>
Source of Release: <b>transfer pump intake line</b>	Date and Hour of Occurrence <b>01/03/2015 7:30 am</b>	Date and Hour of Discovery <b>01/03/2015 1:30 pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomas Oberding Solomon Hughes</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>01/05/2015 12:15 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.\*

On Saturday, January 3, 2015 at 1330 hrs. MST, a spill occurred at the Warren Unit Satellite 5. The spill originated from the transfer pump intake line. All valves were closed to the transfer pump and separator, and the transfer pump power was also disabled at the electrical box. Spill area was 120 ft. x 60 ft. x 1 inch deep for a total of 6.68 BO with none recovered. The spill remained on the caliche pad. The area will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.\*

Spill area was 120 ft. x 60 ft. x 1 inch deep for a total of 6.68 BO with none recovered. The spill remained on the caliche pad. The area will be remediated according to NMOCD guidelines.

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: *Spencer A. Cluff*

Printed Name: **Spencer A. Cluff**

Title: **LEAD HSE**

E-mail Address: **spencer.a.cluff@conocophillips.com**

Date: **01/05/2015**

Phone: **575-746-7248**

Approved by Environmental Specialist:

Approval Date: *1-7-15*

Expiration Date: *2-7-15*

Conditions of Approval:

*Site Sample report. Delivered & reviewed over the per NMOCD guidelines. Site final OK by 2/7-15.*

Attached

*IRP-3486*

\* Attach Additional Sheets If Necessary

JAN 08 2015

NT 15007 57228  
PT 15007 57372

217817

# Appendix B

Laboratory Analysis

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

November 23, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: WARREN UNIT SAT 5

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 11:16.

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 "Hope S. Moreno". The signature is written in a cursive style.

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 BASIN ENVIRONMENTAL - HOBBS  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 393-0293

Received:	11/20/2015	Sampling Date:	11/20/2015
Reported:	11/23/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: PT 1 @ 1' (H503076-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2015	ND	1.86	93.2	2.00	1.39	
Toluene*	<0.050	0.050	11/20/2015	ND	2.11	105	2.00	1.48	
<b>Ethylbenzene*</b>	<b>0.092</b>	0.050	11/20/2015	ND	2.07	104	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/20/2015	ND	6.17	103	6.00	1.73	
Total BTEX	<0.300	0.300	11/20/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140*

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	11/23/2015	ND	432	108	400	7.69	

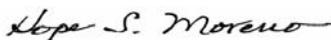
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/20/2015	ND	203	102	200	1.41	
DRO >C10-C28	<10.0	10.0	11/20/2015	ND	206	103	200	0.0879	

*Surrogate: 1-Chlorooctane 115 % 35-147*
*Surrogate: 1-Chlorooctadecane 130 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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



Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BASIN ENVIRONMENTAL - HOBBS  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 393-0293

Received:	11/20/2015	Sampling Date:	11/20/2015
Reported:	11/23/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: PT 2 @ 1' (H503076-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2015	ND	1.86	93.2	2.00	1.39	
Toluene*	<0.050	0.050	11/20/2015	ND	2.11	105	2.00	1.48	
Ethylbenzene*	<0.050	0.050	11/20/2015	ND	2.07	104	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/20/2015	ND	6.17	103	6.00	1.73	
Total BTEX	<0.300	0.300	11/20/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	11/23/2015	ND	432	108	400	7.69	

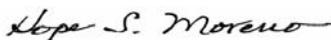
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>829</b>	50.0	11/20/2015	ND	203	102	200	1.41	
<b>DRO &gt;C10-C28</b>	<b>2160</b>	50.0	11/20/2015	ND	206	103	200	0.0879	

*Surrogate: 1-Chlorooctane 101 % 35-147*
*Surrogate: 1-Chlorooctadecane 157 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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



Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

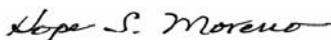
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---

Hope S. Moreno For 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

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

Company Name: ConocoPhillips		P.O. #:		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>								
Project Manager: Kyle Norman		Company: Basin												
Address: 419 W Cain		Attn:												
City: Hobbs		State: NM Zip: 88240												
Phone #: 575-393-2967		Fax #: 575-393-0293												
Project #:		Project Owner:												
Project Name:		City: Hobbs												
Project Location:		State: NM Zip: 88240												
Sampler Name: Warren Int'l Sats #5		Phone #: 575-393-2967												
FOR LAB USE ONLY		Fax #: 575-393-0293												
Lab I.D. #503076	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
	91201		91	GROUNDWATER			11-20-15	9:30	-	-	-			
				WASTEWATER			11-20-15	9:35	-	-	-			
				SOIL										
				OIL										
				SLUDGE										
				OTHER :										
				ACID/BASE:										
				ICE / COOL										
				OTHER :										

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

Relinquished By: *[Signature]* Date: 11-20-15  
 Received By: *[Signature]* Date: 11-20-15  
 Sample Condition: Cool  Intact   
 Checked By: *[Signature]*

Phone Result:  Yes  No Add'l Phone #:  
 Fax Result:  Yes  No Add'l Fax #:  
 REMARKS:  
 email results: hconder@basinenv.com; knorman@basinenv.com; jkamplain@basinenv; lflores@basinenv; lweihelmer@basinenv; cursanic@basinenv; sedwards@basinenv @basinenv  
 environmental tech: @basinenv

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

#54



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

---

November 25, 2015

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: WARREN UNIT SAT. #5

Enclosed are the results of analyses for samples received by the laboratory on 11/24/15 9:45.

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 "Hope S. Moreno". The signature is written in a cursive, flowing style.

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	11/24/2015	Sampling Date:	11/24/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT. #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 @ 1.5' (H503097-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	<0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	11/24/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/25/2015	ND	191	95.5	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>426</b>	10.0	11/25/2015	ND	185	92.7	200	0.693	

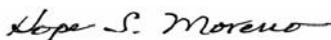
Surrogate: 1-Chlorooctane 94.3 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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



Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

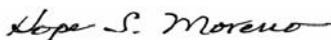
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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



---

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



December 10, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: WARREN UNIT SAT 5

Enclosed are the results of analyses for samples received by the laboratory on 12/04/15 10:08.

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 BASIN ENVIRONMENTAL - HOBBS  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 393-0293

Received:	12/04/2015	Sampling Date:	12/02/2015
Reported:	12/10/2015	Sampling Type:	Soil
Project Name:	WARREN UNIT SAT 5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

**Sample ID: IMPORT SOIL (H503165-01)**

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	12/08/2015	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**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

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



---

Celey D. Keene, Lab Director/Quality Manager



# Appendix C

Photo Documentation

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# ConocoPhillips Warren Unit Satellite 5

Unit Letter F, Section 28, T20S, R38E



Initial release area, facing southwest

1/6/15



Initial release area, facing south

1/6/15



Initial release area, facing north

1/6/15



Excavating, facing south

11/19/15



Hand digging, facing south

11/24/15



Final scrape photo, facing south east

11/30/15



Final scrape photo, facing north east

11/30/15



Importing soil, facing south west

12/1/15



Backfilling pasture, facing west

12/2/15



Backfilling facility, facing north

12/2/15



Seeding pasture, facing north west

12/2/15



Final site photo, facing south east

12/2/15

# Appendix D

Final C-141

**Basin Environmental Service Technologies, LLC**  
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

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  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>1410 N West Country Road</b>	Telephone No. <b>575-746-7248</b>
Facility Name: <b>Warren Unit Satellite 5</b>	Facility Type: <b>Satellite</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>BLM</b>	API No. <b>30-025-30473</b>
-----------------------------	---------------------------	-----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	20S	38E	1940	North	2020	West	LEA

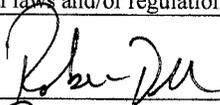
Latitude 32.5462164601454 Longitude 103.155469948588

**NATURE OF RELEASE**

Type of Release: <b>Spill</b>	Volume of Release: <b>6.67 BBLs</b>	Volume Recovered: <b>0 BBLs</b>
Source of Release: <b>transfer pump intake line</b>	Date and Hour of Occurrence <b>01/03/2015 7:30 am</b>	Date and Hour of Discovery <b>01/03/2015 1:30 pm</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomas Oberding Solomon Hughes</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>01/05/2015 12:15 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.\* On Saturday, January 3, 2015 at 1330 hrs. MST, a spill occurred at the Warren Unit Satellite 5. The spill originated from the transfer pump intake line. All valves were closed to the transfer pump and separator, and the transfer pump power was also disabled at the electrical box. Spill area was 120 ft. x 60 ft. x 1 inch deep for a total of 6.68 BO with none recovered. The spill remained on the caliche pad. The area will be remediated according to NMOCD guidelines.  
Describe Area Affected and Cleanup Action Taken.\* CAP activities began on November 19th, 2015. The release was scraped to a depth of 1 ft bgs and 2 discreet samples were obtained from the base of the scrape and sent to a commercial laboratory for analysis (Appendix B). The discreet sample at Pt.1 @1' returned a chloride result of <16 mg/kg, GRO and DRO value of <10 mg/kg and a BTEX value of <.03 mg/kg. The discreet sample at Pt.2 @1' returned a chloride result of 64 mg/kg, GRO value of 829 mg/kg, DRO value of 2160 mg/kg and a BTEX value of <.03 mg/kg. The scrape around Pt.2 was then deepened to a depth of 1.5', then a discreet sample was obtained from the base of the 1.5' scrape and taken to a commercial laboratory for analysis. The discreet sample at Pt.2 @1.5' returned a chloride result of <16 mg/kg, GRO value of <10 mg/kg, DRO value of 426 mg/kg and a BTEX value of <.03 mg/kg. Approximately 100 yards was exported to a NMOCD approved facility for disposal. On November 30th, 2015 a request to backfill was submitted to NMOCD and BLM. Basin received backfill approval from NMOCD and from BLM on the same day. Approximately 20 yards top soil and 8 yards caliche were imported to backfill. A sample was taken of the imported soil and sent to a commercial laboratory for analysis. The imported sample returned a chloride result of <16 mg/kg. The scrape was then backfilled with imported materials and contoured to the surrounding area. The pasture area was seeded with native vegetation.

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: <b>Robert Dobbs</b>	Approved by Environmental Specialist: 	
Title: <b>SENM Surface Projects Supervisor</b>	Approval Date: <b>05/18/2016</b>	Expiration Date: <b>//</b>
E-mail Address: <b>Robert.A.Dobbs@ConocoPhillips.com</b>	Conditions of Approval: <b>///</b>	Attached <input type="checkbox"/>
Date: <b>5/10/16</b> Phone: <b>281-455-0821</b>		<b>IRP 3486</b>

\* Attach Additional Sheets If Necessary