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By OCD; Dr. Oberding at 12:56 pm, Apr 06, 2015

CONOCOPHILLIPS

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

APPROVED

By OCD; Dr. Oberding at 12:57 pm, Apr 06, 2015

MCA Well #273 (1RP-3371)

Termination Request

API No. 30-025-23730

Release Date: December 12th, 2013

Unit Letter L, Section 26, Township 17S, Range 32E

April 2, 2015

Dr. Tomáš 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 Well #273 (1RP- 3371)

UL/L sec. 26 T17S R32E

API No. 30-025-23730

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/L sec. 26 T17S R32E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 66 +/- feet.

On December 12th, 2013, CoP discovered a small hole on a 2 inch fiberglass injection line. The line released 21 barrels of produced water over 3,315 square feet of pasture land. None of this fluid was recovered. NMOCD and BLM were notified of the release on December 12th, 2013, and an initial C-141 was sent to both parties for their approval. NMOCD approved the initial C-141 on October 10th, 2014 (Appendix A).

RECS personnel were on site to visually assess the release on September 4th, 2014. Based on this assessment, on October 2nd, 2014, RECS supervised the installation of two verticals within the release area (Figure 1). As the verticals were installed, soil samples were taken at regular intervals and field tested for chlorides and organic vapors. Representative samples from each vertical were taken to a commercial laboratory for analyses. Vertical 1 returned laboratory chloride readings of 160 mg/kg at the surface, 5,440 mg/kg at 3 ft bgs and 880 mg/kg at 9 ft bgs. Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings returned values of non-detect at all depths. Vertical 2 returned laboratory chloride, GRO, DRO and BTEX readings of non-detect at all depths, except at 1 ft bgs, where the DRO sample returned a value of 2,310 mg/kg (Appendix B).

Based on the laboratory analysis of the site, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on October 21st, 2014. NMOCD approved the CAP on October 21st, 2014, and BLM approved the CAP on October 22nd, 2014. The CAP stated that the area around Vertical 1 would be excavated down to 4 ft bgs. At the base of the excavation, a 20-mil reinforced poly liner would be installed and properly seated. The area around Vertical 2 would be scraped down to 1 ft bgs (Figure 2). Once the scrape was completed, a 3 point composite sample from the bottom of the scrape would be taken and field tested for chlorides and organic vapors. If the field data indicated that the composite would not achieve chloride, GRO, DRO and BTEX readings below regulatory standards, the scrape would be deepened until field testing indicated that all constituents from the bottom composite would be below regulatory standards. The bottom composite would then be taken to a commercial laboratory to confirm that chloride, GRO, DRO and BTEX readings were below regulatory standards.

All excavated soils would be taken to a NMOCD approved facility for disposal. Top soil would be imported to the site to replace any soils taken for disposal. A sample of the backfill would be taken to a commercial laboratory to confirm that the chloride reading was below regulatory standards. The area would be backfilled with the imported soil and contoured to the surrounding location. Once the site had been backfilled, the disturbed area would be seeded with a blend of native vegetation.

Corrective actions at the site began on December 1st, 2014. The release area was excavated in two parts as stated in the approved CAP (Figure 3). The area around Vertical 1 was excavated to 4 ft bgs. At the base of the excavation a 20-mil reinforced poly liner was installed and properly seated. The area around Vertical 2 was scraped down to 1 ft bgs. At the base of the scrape, a 3 point bottom composite was taken and sent to a commercial laboratory for analysis (Appendix C). The composite returned laboratory chloride, GRO, DRO and BTEX readings of non-detect.

A request to backfill the site was sent to NMOCD and BLM on December 3rd, 2014. BLM approved the site to be backfilled on December 4th, 2014, and NMOCD approved the site to be backfilled on December 9th, 2014. A total of 220 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 330 cubic yards of top soil was imported to the site to serve as backfill. A 5 point composite of the imported soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect. The site was backfilled with the imported soil and contoured to the surrounding location. On December 10th, 2014, the disturbed area was seeded with BLM mix #2 and #3.

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

Given that CoP has remediated the site as stated in the approved CAP, CoP respectfully 'remediation termination' and site closure. 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,

A handwritten signature in dark ink, appearing to read 'J.C.W.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Proposed Corrective Actions
- Figure 3 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Corrective Action Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

Initial Sampling Data

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	160	0.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	210	0.2							
2'	1471	0.3							
3'	5440	0.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
4'	3018	0.5							
5'	1399	0.5							
6'	1564	0.4							
7'	915	0.6							
8'	813	0.7							
9'	880	0.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	<16	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	0.2	<10	2310	<0.05	<0.05	<0.05	<0.15	<0.3
2'	<16	0.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

■ VERTICAL	■ ELECTRICAL BOX	× - × - × FENCE
ELECTRIC POLE	HEADER	— OVERHEAD ELECTRIC LINE
	+ SOURCE	— SURFACE PIPELINE
	— BURIED PIPELINE	 STAIN- 3315 SQ FT

Landowner: BLM
DGW: 66 ft



CONOCOPHILLIPS MCA WELL #273

UL L SECTION 26
T-17-S R-32-E
LEA COUNTY, NM

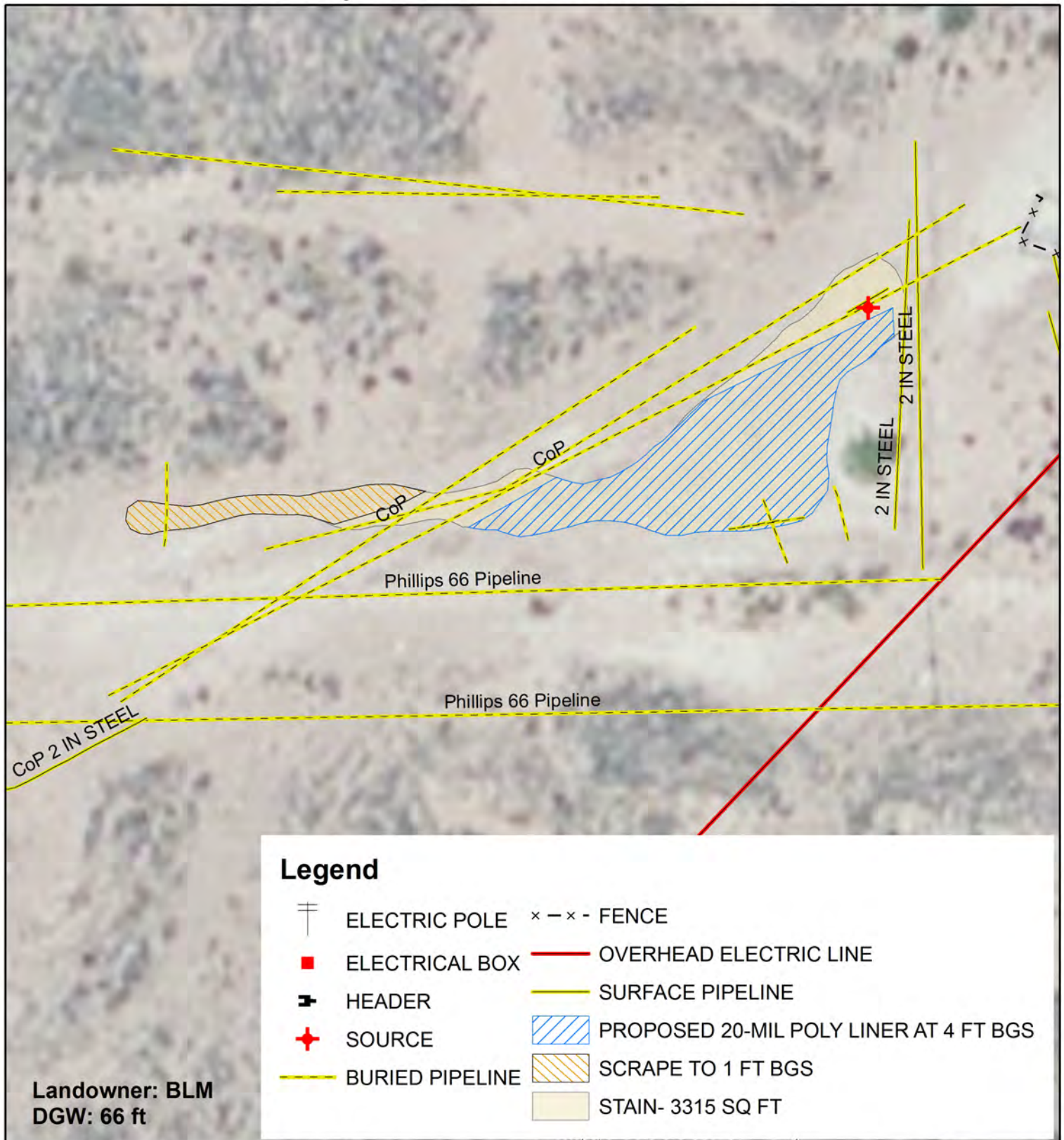
Figure 1

0 25 50
Feet

GPS date: 9/4/14 & 10/2/14 CF
Drawing date: 10/3/14, 10/10/14
Drafted by: T. Grieco, L. Weinheimer



Proposed Corrective Actions



CONOCOPHILLIPS MCA WELL #273

UL L SECTION 26
T-17-S R-32-E
LEA COUNTY, NM

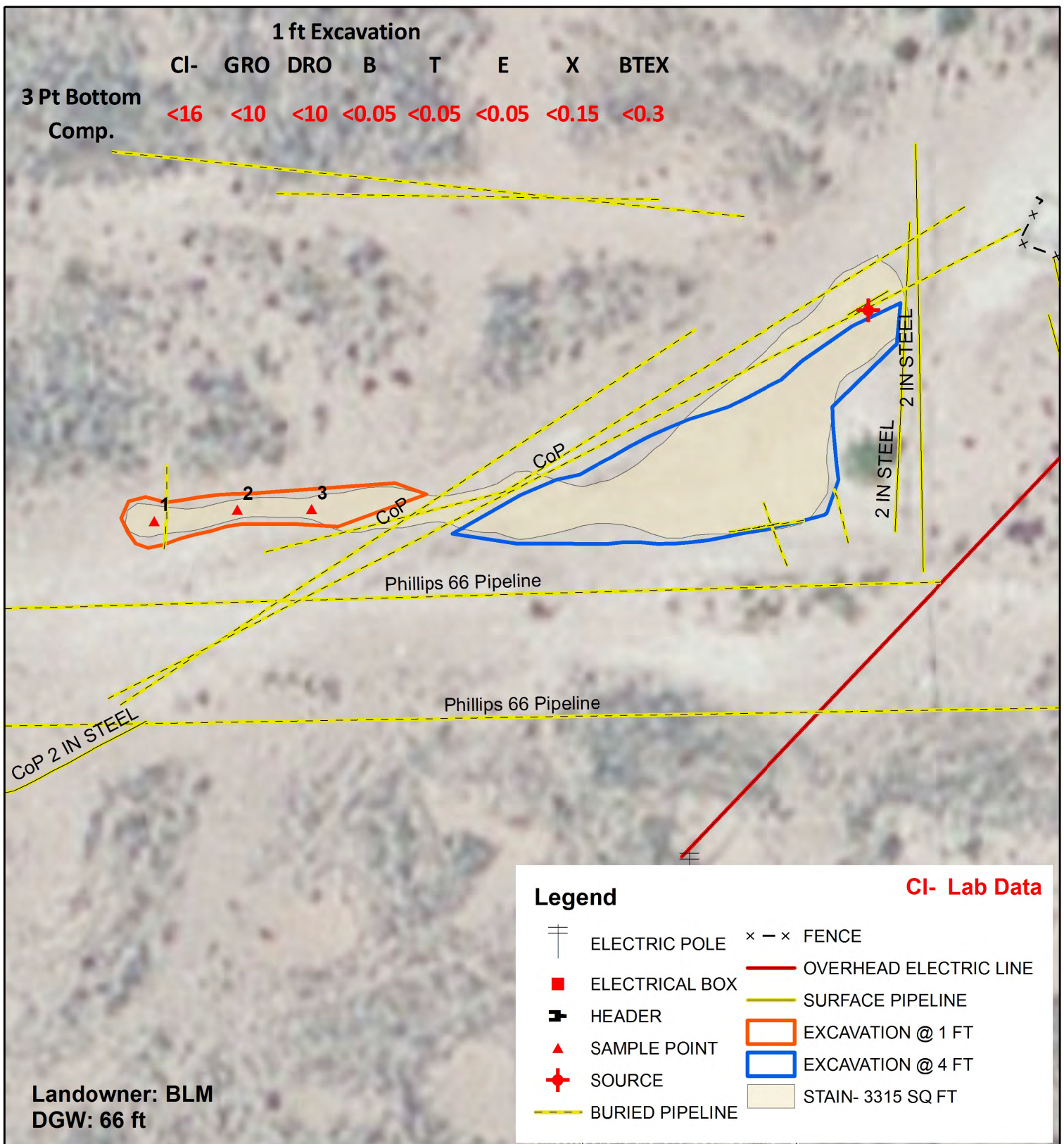
Figure 2

0 10 20
HHH Feet

GPS date: 9/4/14 & 10/2/14 CF
Drawing date: 10/3/14, 10/10/14
Drafted by: T. Grieco, L. Weinheimer



Excavation Data



Appendix A

Initial C-141

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

HOBBS OGD State of New Mexico
Energy Minerals and Natural Resources
OCT 10 2014
Oil Conservation Division
1220 South St. Francis Dr.
RECEIVED 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: David May
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3106
Facility Name: MCA Well #273	Facility Type: Water Injection

Surface Owner: BLM	Mineral Owner BLM	API No. 300252373000
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LOCATION OF RELEASE

Unit Letter L	Section 26	Township 17S	Range 32E	Feet from the 1980	North/South Line South	Feet from the 560	East/West Line west	County LEA
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Latitude **32.8036924268663** Longitude - **103.743849216684**

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 21 BBLS	Volume Recovered: 0 BBLS
Source of Release: 2 inch fiberglass Injection line	Date and Hour of Occurrence 12/12/13 10:30 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? Duncan Whitlock/Geoffrey Leking	
By Whom? David May	Date and Hour: 12/12/13 3:30 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.*

Accidental discharge on a 2 inch fiberglass injection line for the MCA well #273 due to a small hole in the line. Spill amount was 21 BPW with 0 BPW recovered. MSO isolated valves at the header and well. Affected area was 300 Ft X 30 Ft. Spill will be remediated according to BLM and NMOCD requirements.

Describe Area Affected and Cleanup Action Taken.*

Affected area was 300 Ft X 30 Ft. Spill will be remediated according to BLM and NMOCD 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:

Printed Name: **David May**

Title: **LEAD HSE**

E-mail Address: **david.d.may@conocophillips.com**

Date: **12/12/2013**

Phone: **575-391-3106**

Approved by Environmental Specialist:

Approval Date: **12-10-14**

Expiration Date: **12-10-14**

Conditions of Approval:

*Site Super report
delete & re-submit new report
NMOCD guide. Submit final*

Attached ☐

10P 3371

* Attach Additional Sheets If Necessary

C-141 by 12-10-14

Original 287817

77014 28 340432

77014 28 340598

OCT 17 2014

Appendix B

Initial Sampling Lab

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

October 06, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA WELL #273

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 8:35.

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.

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:

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

 Received: 10/03/2014
 Reported: 10/06/2014
 Project Name: MCA WELL #273
 Project Number: COP
 Project Location: NONE GIVEN

 Sampling Date: 10/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: VERTICAL 1 @ SURFACE (H403026-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2014	ND	1.90	95.2	2.00	2.17	
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57	
Total BTX	<0.300	0.300	10/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 61-154

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	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.1 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/03/2014
Reported: 10/06/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 10/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 1 @ 3' (H403026-02)

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	10/03/2014	ND	1.90	95.2	2.00	2.17	
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57	
Total BTEx	<0.300	0.300	10/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 86.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.2 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/03/2014
Reported: 10/06/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 10/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 1 @ 9' (H403026-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2014	ND	1.90	95.2	2.00	2.17	
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57	
Total BTEx	<0.300	0.300	10/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 89.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.8 % 52.1-176

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*=Accredited Analyte

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HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/03/2014
Reported: 10/06/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 10/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 2 @ SURFACE (H403026-04)

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	10/03/2014	ND	1.90	95.2	2.00	2.17	
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57	
Total BTEx	<0.300	0.300	10/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 61-154

Chloride, SM4500CI-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	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 92.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.4 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 10/03/2014
 Reported: 10/06/2014
 Project Name: MCA WELL #273
 Project Number: COP
 Project Location: NONE GIVEN

 Sampling Date: 10/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: VERTICAL 2 @ 1' (H403026-05)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2014	ND	1.90	95.2	2.00	2.17		
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04		
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57		
Total BTEx	<0.300	0.300	10/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 61-154

Chloride, SM4500CI-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	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	2310	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 88.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/03/2014
 Reported: 10/06/2014
 Project Name: MCA WELL #273
 Project Number: COP
 Project Location: NONE GIVEN

 Sampling Date: 10/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: VERTICAL 2 @ 2' (H403026-06)

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	10/03/2014	ND	1.90	95.2	2.00	2.17		
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748		
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04		
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57		
Total BTEX	<0.300	0.300	10/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 61-154

Chloride, SM4500CI-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	10/03/2014	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	10/03/2014	ND	178	89.0	200	1.40	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	188	93.9	200	0.594	

Surrogate: 1-Chlorooctane 73.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 77.4 % 52.1-176

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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

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Celey D. Keene, Lab Director/Quality Manager

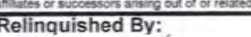




* Bush *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:  Relinquished By: _____ Date: 10-3-2014 Time: 8:35		Received By:  Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS: email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: cflores @rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 1.20		CHECKED BY: (Initials) 	

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

#54

Appendix C

Corrective Action 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

December 03, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA WELL #273

Enclosed are the results of analyses for samples received by the laboratory on 12/03/14 8:50.

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.

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

Analytical Results For:

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

Received: 12/03/2014
Reported: 12/03/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 12/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 3 PT. COMP 1' EXC (H403679-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2014	ND	1.93	96.7	2.00	3.49	
Toluene*	<0.050	0.050	12/03/2014	ND	1.90	95.2	2.00	2.81	
Ethylbenzene*	<0.050	0.050	12/03/2014	ND	1.79	89.6	2.00	3.02	
Total Xylenes*	<0.150	0.150	12/03/2014	ND	5.42	90.4	6.00	3.67	
Total BTX	<0.300	0.300	12/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

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	12/03/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/03/2014	ND	199	99.7	200	0.672	
DRO >C10-C28	<10.0	10.0	12/03/2014	ND	205	102	200	1.18	

Surrogate: 1-Chlorooctane 131 % 47.2-157

Surrogate: 1-Chlorooctadecane 151 % 52.1-176

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	Insufficient time to reach temperature.
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Celey D. Keene, Lab Director/Quality Manager



RDINAL 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

Page 4 of 4

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<small>RELEASE NOTE: Liability and Damages: California law states that a claimant's damages shall be deemed waived unless made in writing and filed within four years of the date of the incident. All claims including those for negligence and any other cause whatsoever, 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.</small>							
Relinquished By: <i>Kyle Schmitt</i>		Date: <i>12-3-14</i> Time: <i>8:50</i>		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By:		Date: Time:		Received By:		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>Kschmitt</i> @rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>[Signature]</i>			

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

#54

RUSA

December 05, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA WELL #273

Enclosed are the results of analyses for samples received by the laboratory on 12/03/14 8:50.

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.

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:

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

Received: 12/03/2014
Reported: 12/05/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 12/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 5 PT. COMP IMPORTED TOPSOIL (H403681-01)**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	12/03/2014	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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***	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

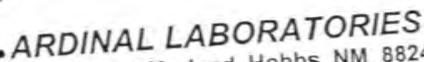
Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <u>Kyle Schmitt</u>		Date: <u>12-3-14</u> Time: <u>8:50</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By:		Date: Time:		Received By:		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: <u>K Schmitt</u> @rice-ecs.com	
Delivered By: (Circle One)		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: <u>[Signature]</u> (Initials)		1.80	
Sampler - UPS - Bus - Other:							

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

December 15, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA WELL #273

Enclosed are the results of analyses for samples received by the laboratory on 12/10/14 15:50.

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.

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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:

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

Received: 12/10/2014
Reported: 12/15/2014
Project Name: MCA WELL #273
Project Number: COP
Project Location: NONE GIVEN

Sampling Date: 12/10/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez

Sample ID: 5 PT. COMP IMPORTED TOPSOIL (H403771-01)**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	12/11/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
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***	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, Lab Director/Quality Manager



Page 4 of 4

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Relinquished By: <i>Kyle Schnaick</i> Date: <i>12-10-14</i> Time: <i>350</i>		Received By: <i>[Signature]</i> Date: Time: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: <i>All Pz</i>	
Relinquished By: Date: Time: 		Received By: Date: Time: 			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>12.6°C</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>RP</i>	

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

Appendix D

Photo Documentation

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

ConocoPhillips MCA Well #273

Unit Letter L, Section 26, T17S, R32E



Initial release area, facing west

9/4/14



Initial release area, facing southwest

9/4/14



Initial release area, facing northeast

9/4/14



Initial release area, facing northwest

9/4/14



Installing Vertical 1, facing northeast 10/2/14



Installing Vertical 2, facing northeast 10/2/14



Excavating to 1 ft bgs, facing southeast 12/1/14



Exporting soil, facing southeast 12/3/14



Excavation completed, facing east

12/5/14



Excavation completed, facing southwest

12/5/14



Installing liner, facing southwest

12/5/14



Liner installation completed, facing east

12/5/14



Backfilling site, facing north

12/5/14



Importing top soil, facing east

12/8/14



Site backfilled, facing southwest

12/8/14



Site backfilled, facing west

12/8/14



Seeding the site, facing west

12/10/14



Seeding the site, facing north

12/10/14



Site completed, facing southwest

12/10/14



Site completed, facing southwest

12/10/14

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 Well #273	Facility Type	Water Injection
Surface Owner	BLM	Mineral Owner	BLM
		API No.	300252373000

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	26	17S	32E	1980	South	560	West	Lea

Latitude 32.8036924268663 Longitude -103.743849216684

NATURE OF RELEASE

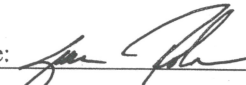
Type of Release	Spill	Volume of Release	21 BBLS	Volume Recovered	0 BBLS
Source of Release	2 inch fiberglass injection line	Date and Hour of Occurrence	12/12/13 10:30 am	Date and Hour of Discovery	SAME
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Duncan Whitlock/Geoffrey Leking		
By Whom?	David May	Date and Hour	12/12/13 3:30 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.* Accidental discharge on a 2 inch fiberglass injection line for the MCA well #273 due to a small hole in the line. Spill amount was 21 BPW with 0 BPW recovered. MSO isolated valves at the header and well.

Describe Area Affected and Cleanup Action Taken.* A total of 3,315 square feet of pasture land was affected. RECS personnel were on site to visually assess the release on September 4th, 2014. Based on this assessment, on October 2nd, 2014, RECS supervised the installation of two verticals within the release area. Representative samples from each vertical were taken to a commercial laboratory for analyses. Based on the laboratory analysis of the site, a CAP was submitted to NMOCD and BLM on October 21st, 2014. NMOCD approved the CAP on October 21st, 2014, and BLM approved the CAP on October 22nd, 2014. Corrective actions at the site began on December 1st, 2014. The release area was excavated in two parts as stated in the approved CAP. The area around Vertical 1 was excavated to 4 ft bgs. At the base of the excavation a 20-mil reinforced poly liner was installed and properly seated. The area around Vertical 2 was scraped down to 1 ft bgs. At the base of the scrape, a 3 point bottom composite was taken and sent to a commercial laboratory for analysis. The composite returned laboratory chloride, GRO, DRO and BTEX readings of non-detect. A request to backfill the site was sent to NMOCD and BLM on December 3rd, 2014. BLM approved the site to be backfilled on December 4th, 2014, and NMOCD approved the site to be backfilled on December 9th, 2014. A total of 220 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 330 cubic yards of top soil was imported to the site to serve as backfill. A 5 point composite of the imported soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect. The site was backfilled with the imported soil and contoured to the surrounding location. On December 10th, 2014, the disturbed area was seeded with BLM mix #2 and #3.

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: 		OIL CONSERVATION DIVISION	
Printed Name: <u>SEAN ROBINSON</u>		Approved by Environmental Specialist:	
Title: <u>OPERATIONS SUPERVISOR</u>		Approval Date:	Expiration Date:
E-mail Address: <u>strobin@cop.com</u>		Conditions of Approval:	
Date: <u>2-27-15</u> Phone: <u>505 391 3147</u>		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary