



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

COG Operating LLC – Cirrus Federal Com Oil Battery (11/13/2016)

REMEDIATION PLAN

COG will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 4 feet. The entire site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

APPROVED

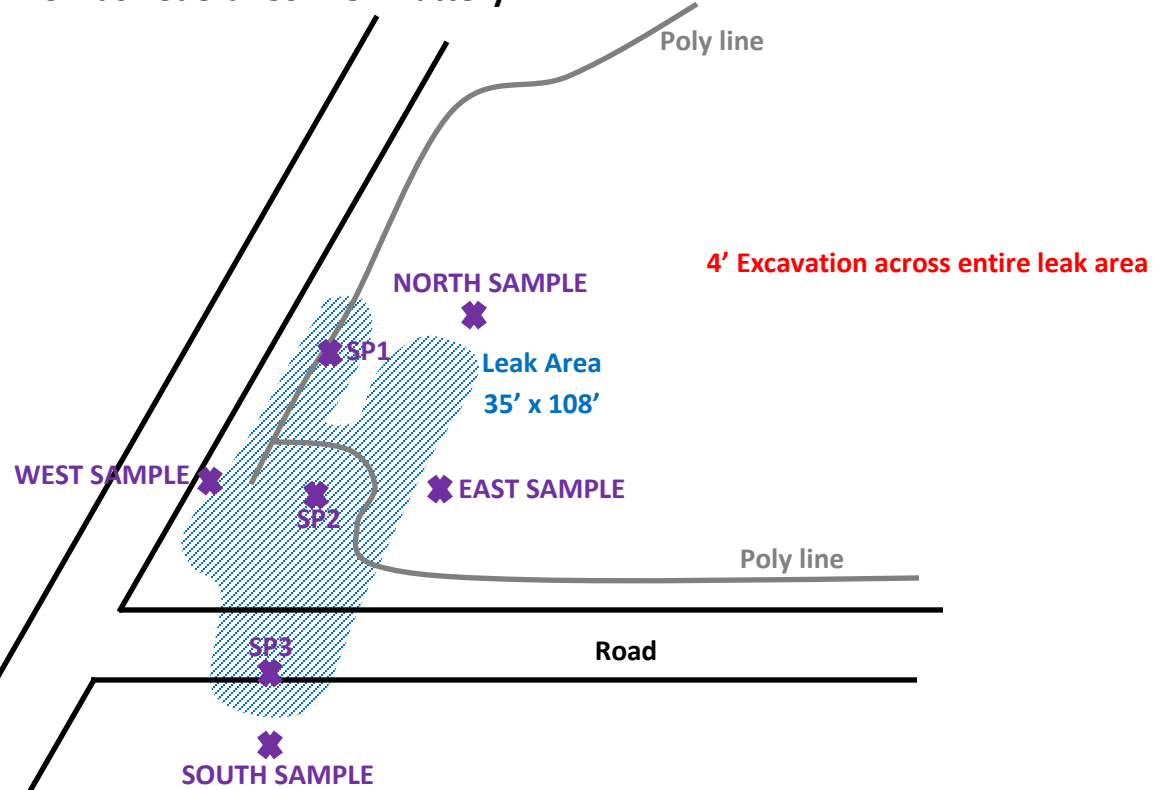
By Olivia Yu at 9:17 am, Mar 02, 2017

The workplan for 1RP-4522 is approved with the following conditions.

- 1) Excavate to 5 ft. bgs and obtain confirmatory bottom and sidewall samples.
- 2) A scaled digital map and documentation of depth to GW is required in the closure report.



COG
Cirrus Federal Com Oil Battery



U/L D, Section 17, T19S, R32E

Lea County, NM

N 32.667447° W 103.795218°

API# 30-025-38420

BBC International, Inc.

COG

Cirrus Federal Com Oil Battery

Date: 12/30/16

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2016



Groundwater Plot

COG Cirrus Federal Com Oil Battery

County
Lea

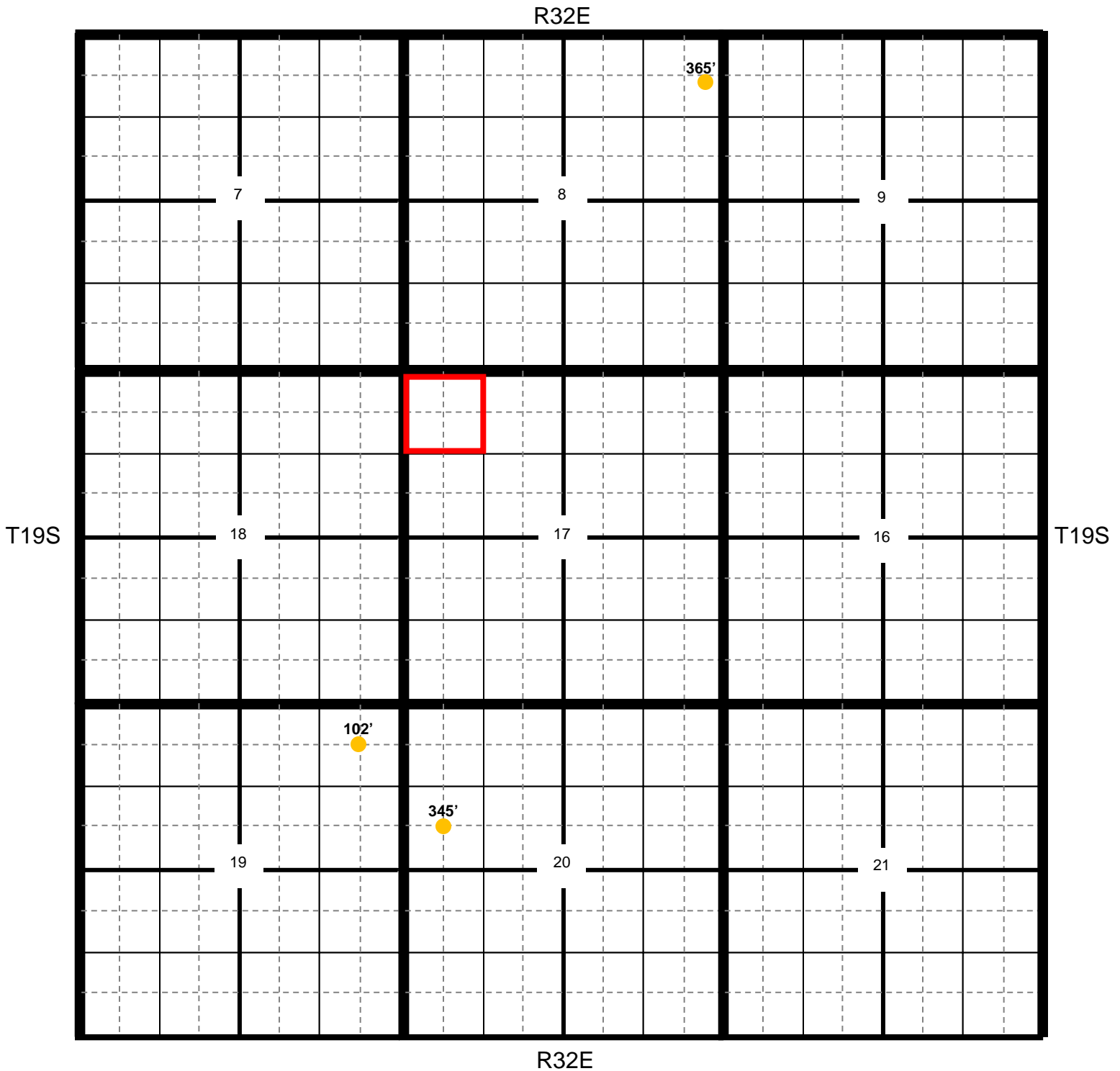
Unit Letter
D

Section
17

Township
19S

Range
32E

Trend Map 450'



★ Location

● OCD

● USGS

● SEO

● All Databases

COG Cirrus Federal Com Oil Battery

County
Lea
 Unit Letter
D
 Section
17
 Township
19S
 Range
32E

Trend Map 450'

1		2	
NW/NW	NE/NW	NW/NE	NE/NE
NONE FOUND			
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P
3		4	

Laboratory Analytical Results Summary
COG, Cirrus Federal Com Oil Battery

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4720	7730	800	96

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4000	7200	1330	96

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17	1/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4130	7730	1360	80

		Sample	NORTH @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	EAST @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500Cl-B		32

		Sample	SOUTH @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500Cl-B		16

		Sample	WEST @ 1'
Analyte	Method	Date	1/10/17
			mg/Kg
Chloride	SM4500Cl-B		32

January 17, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CIRRUS FED COM

Enclosed are the results of analyses for samples received by the laboratory on 01/13/17 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700091-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 3' (H700091-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 5' (H700091-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 1 @ 7' (H700091-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700091-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	01/16/2017	ND	432	108	400	0.00		

Sample ID: SP 2 @ 3' (H700091-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	01/16/2017	ND	432	108	400	0.00		

Sample ID: SP 2 @ 5' (H700091-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	01/16/2017	ND	432	108	400	0.00		

Sample ID: SP 2 @ 7' (H700091-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 1' (H700091-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4130	16.0	01/16/2017	ND	432	108	400	0.00	

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H700091-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 5' (H700091-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: SP 3 @ 7' (H700091-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/16/2017	ND	432	108	400	0.00	

Sample ID: NORTH @ 1' (H700091-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64	

Sample ID: EAST @ 1' (H700091-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64	

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/17/2017	Sampling Type:	Soil
Project Name:	CIRRUS FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SOUTH @ 1' (H700091-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/16/2017	ND	432	108	400	3.64		

Sample ID: WEST @ 1' (H700091-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/16/2017	ND	432	108	400	3.64		

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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

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Celey D. Keene, Lab Director/Quality Manager

ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	Cirrus Federal Corn Oil Battery	Facility Type:	Flowline
Surface Owner:	Federal	Mineral Owner:	API No. 30-025-38420

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	8	19S	32E	1980	South	1980	East	Lea

Latitude Longitude

NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	8 bbls	Volume Recovered:	7 bbls
Source of Release:	Poly Flowline	Date and Hour of Occurrence:	11/13/2016 12:40 am	Date and Hour of Discovery:	11/13/2016 12:40 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour:				
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.* Check valve on the poly flowline had a hole in the bottom. Replaced the check valve.					
Describe Area Affected and Cleanup Action Taken.* The release occurred within a pasture. Free standing fluids were removed via vacuum truck. Concho will have the spill site evaluated for any possible impact from the release and will present remediation work plan to the NMOCD for approval prior to any significant remediation activities.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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:	Rebecca Haskell	Approved by Environmental Specialist:			
Title:	Senior HSE Coordinator	Approval Date:	Expiration Date:		
E-mail Address:	rhaskell@concho.com	Conditions of Approval:			Attached <input type="checkbox"/>
Date:	November 15, 2016	Phone:	432-683-7443		

* Attach Additional Sheets If Necessary