



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

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## **OXY – SARAH STATE COM #1 O BATTERY**

### **REMEDIATION PLAN**

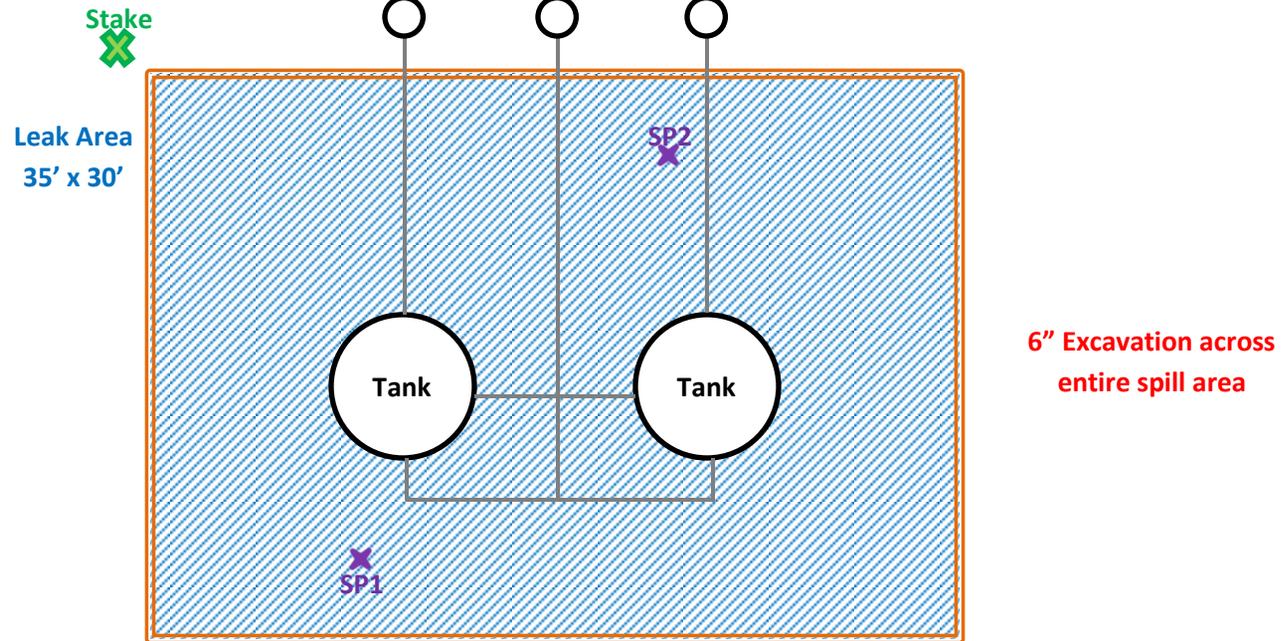
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OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 6 inches. The entire site will be backfilled with clean soil.

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



Oxy  
Sarah State Com #1 O Battery



U/L O Section 10, T19S, R29E

Eddy County, NM

N 32.66947° W 104.06097°

API# 30-015-34693

**BBC International, Inc.**

**Oxy**

**Sarah State Com #1 O Battery**

Date: 01/12/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015

# Groundwater Plot

## Oxy Sarah State Com #1 O Battery

County  
Eddy

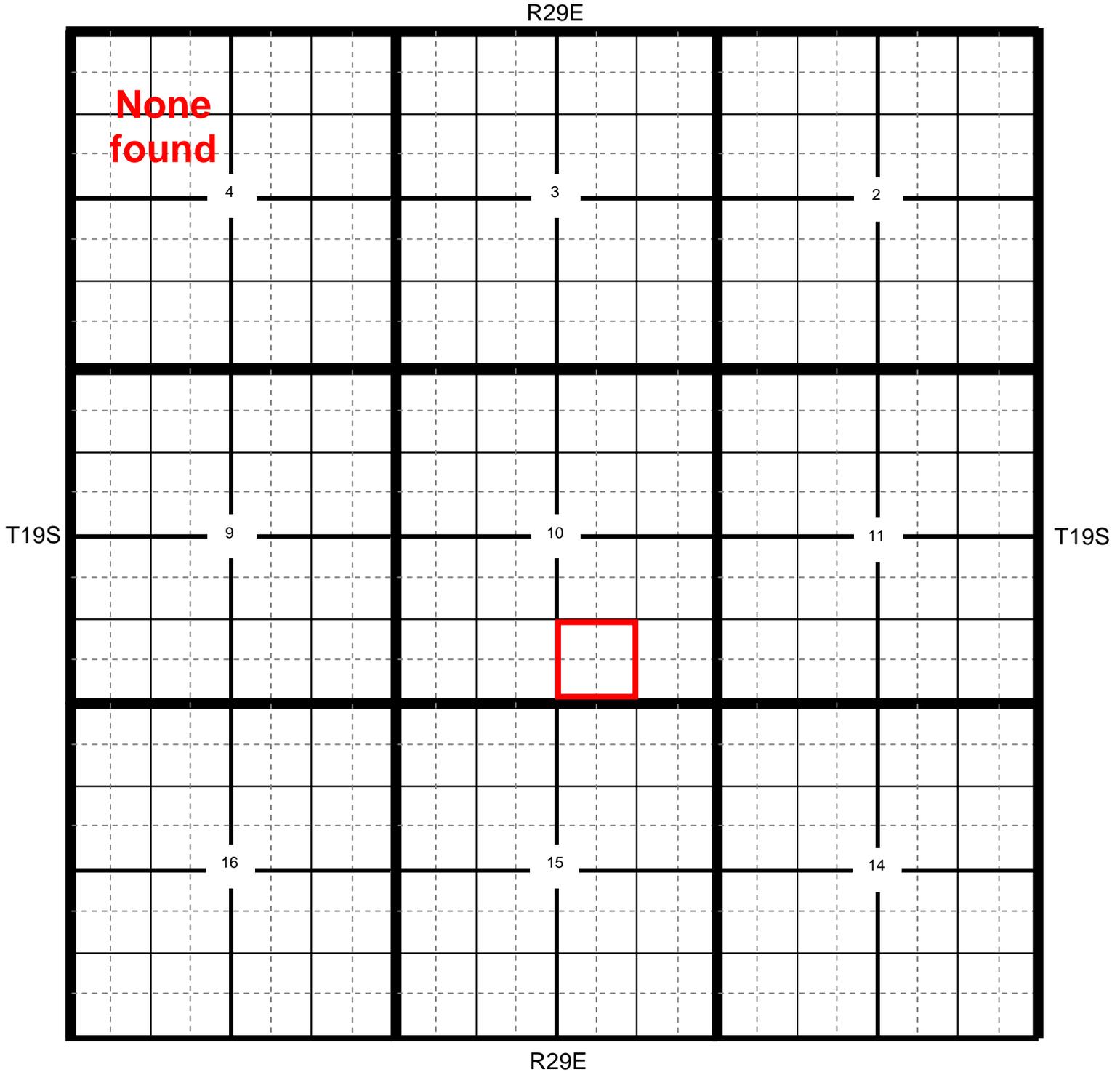
Unit Letter  
O

Section  
10

Township  
19S

Range  
29E

Trend Map 125'-150'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Sarah State Com #1 O Battery

County Eddy      Unit Letter O      Section 10      Township 19S      Range 29E

Trend Map 125'-150'

1

2

NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
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	<b>SW/SE</b>	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

**Laboratory Analytical Results Summary**  
**Sarah State Com #1 O Battery**

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
			2/11/16	2/11/16	2/11/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Toluene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	<0.150
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>1310</b>	<b>528</b>	<16.0
<b>GRO</b>	TPH 8015M		n/a	n/a	<10.0
<b>DRO</b>	TPH 8015M		n/a	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
			2/11/16	2/11/16	2/11/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Toluene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	<0.050
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	<0.150
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>1300</b>	<b>512</b>	<16.0
<b>GRO</b>	TPH 8015M		n/a	n/a	<10.0
<b>DRO</b>	TPH 8015M		n/a	n/a	<b>11.9</b>



February 18, 2016

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: SARAH ST COM #1 - O BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/12/16 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	02/12/2016	Sampling Date:	02/11/2016
Reported:	02/18/2016	Sampling Type:	Soil
Project Name:	SARAH ST COM #1 - O BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ SURFACE (H600330-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/15/2016	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 1' (H600330-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/15/2016	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 2' (H600330-03)**

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	02/16/2016	ND	1.99	99.4	2.00	6.93	
Toluene*	<0.050	0.050	02/16/2016	ND	1.96	97.9	2.00	6.53	
Ethylbenzene*	<0.050	0.050	02/16/2016	ND	1.79	89.4	2.00	6.11	
Total Xylenes*	<0.150	0.150	02/16/2016	ND	5.51	91.9	6.00	5.87	
Total BTEX	<0.300	0.300	02/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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
Chloride	<16.0	16.0	02/15/2016	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

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:	02/12/2016	Sampling Date:	02/11/2016
Reported:	02/18/2016	Sampling Type:	Soil
Project Name:	SARAH ST COM #1 - O BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H600330-03)**

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	02/12/2016	ND	215	108	200	3.48	
DRO >C10-C28	<10.0	10.0	02/12/2016	ND	196	98.1	200	7.87	
<i>Surrogate: 1-Chlorooctane</i>		84.9 %	35-147						
<i>Surrogate: 1-Chlorooctadecane</i>		98.6 %	28-171						

**Sample ID: SP 2 @ SURFACE (H600330-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1300</b>	16.0	02/15/2016	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 1' (H600330-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>512</b>	16.0	02/15/2016	ND	416	104	400	3.77	

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:	02/12/2016	Sampling Date:	02/11/2016
Reported:	02/18/2016	Sampling Type:	Soil
Project Name:	SARAH ST COM #1 - O BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 2' (H600330-06)**

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	02/16/2016	ND	1.99	99.4	2.00	6.93	
Toluene*	<0.050	0.050	02/16/2016	ND	1.96	97.9	2.00	6.53	
Ethylbenzene*	<0.050	0.050	02/16/2016	ND	1.79	89.4	2.00	6.11	
Total Xylenes*	<0.150	0.150	02/16/2016	ND	5.51	91.9	6.00	5.87	
Total BTEX	<0.300	0.300	02/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	02/15/2016	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	02/12/2016	ND	215	108	200	3.48	
<b>DRO &gt;C10-C28</b>	<b>11.9</b>	10.0	02/12/2016	ND	196	98.1	200	7.87	

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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\*=Accredited Analyte

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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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

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

1 of

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. P.O. #:

Project Manager: Cliff Brunson Company:

Address: P.O. Box 805 Attn:

City: Hobbs State: NM Zip: 88241

Phone #: 575-397-6388 Fax #: 575-397-0397

Project #: Project Owner: *OKY*

Project Name: *Synch St Com #1 - O Bty*

Project Location: State: Zip:

Sampler Name: *Prive Brunson* Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	TPH	BTEX	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<i>H00D33D</i>	<i>1</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>1015</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	<i>2</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>1045</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	<i>3</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>1130</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	<i>4</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>1815</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	<i>5</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>1245</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
	<i>6</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>2/11/16</i>	<i>130</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

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Relinquished By: *[Signature]* Date: *2/11/16* Time: *2:30pm* Received By: *[Signature]* Date: *2/11/16* Time: *10:35*

Delivered By: *[Signature]* (Circle One) UPS - Bus - Other: *4.60c* Sample Condition: Cool  Intact  Yes  No  Yes  No

CHECKED BY: *[Signature]* (Initials) *[Signature]*

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

#54

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	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sarah State Com #1 O Battery	Facility Type	Gathering

Surface Owner	State	Mineral Owner	API No. 30-015-34693
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	10	19S	29E					Eddy

Latitude N 32.66947° Longitude W 104.06097°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	70 bbls	Volume Recovered	0 bbls
Source of Release	Load line struck by backhoe	Date and Hour of Occurrence	12/31/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher- NMOCD			
By Whom?	Cliff Brunson @ BBC International Inc.	Date and Hour 01/04/2016 in the afternoon			
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.\*

A backhoe struck a load line while clearing snow causing 70 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 35' x 30' on location inside the berm. Remediation will be completed in accordance with an approved remediation plan from NMOCD.

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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-7-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary