

# Closure Report

MAR 06 2014

NMOCD ARTESIA

## Site Description

Site Name:	Two Marks 36 State #4
Company:	Oxy Permian Ltd.
Legal Description:	U/L O, Section 36, T21S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.42917° W 104.45789°

## Release Data

Date of Release:	09/26/2013
Type of Release:	Produced water
Source of Release:	4" steel disposal line
Volume of Release:	90 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Conduct a surface scrape on the entire spill area, and at SP1, resample to delineate to a minimum of 1,000 ppm chloride.
Remediation Activities:	02/11/2014 to 02/18/2014

Plan Sent to OCD:	01/02/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/13/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 10/08/2013
Final C-141	Signed 02/27/2014
Site Diagram	October 2013
Groundwater Plot	<50'
TOPO Maps	October 2013
Lab Summary	12/02/2013 and 02/17/2014
Lab Analysis	12/02/2013 and 02/17/2014
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

03/03/2014

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Two Marks 36 State #4	Facility Type	Well location
Surface Owner	State	Mineral Owner	API No. 30-015-34833

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	36	21S	24E	670	South	1905	East	Eddy County, NM

Latitude N 32.43007° Longitude W 104.4490°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	90 bbls	Volume Recovered	0 bbls
Source of Release	4" steel disposal line	Date and Hour of Occurrence	09/26/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD		
By Whom?	Christopher Jones	Date and Hour	09/30/2013 @ 9:07 am		
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 leak in a 4" steel disposal line caused 90 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 area affected is approximately 350' x 30'. Remediation will be completed in accordance with an approved 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: Christopher Jones		Approved by District Supervisor:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 10-8-13		Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Two Marks 36 State #4	Facility Type	Well location
Surface Owner	State	Mineral Owner	API No. 30-015-34833

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	36	21S	24E	670	South	1905	East	Eddy County, NM

Latitude N 32.43007° Longitude W 104.4490°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	90 bbls	Volume Recovered	0 bbls
Source of Release	4" steel disposal line	Date and Hour of Occurrence	09/26/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD		
By Whom?	Christopher Jones	Date and Hour	09/30/2013 @ 9:07 am		
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 leak in a 4" steel disposal line caused 90 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 area affected is approximately 350' x 30'. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 01/13/2014.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

#### OIL CONSERVATION DIVISION

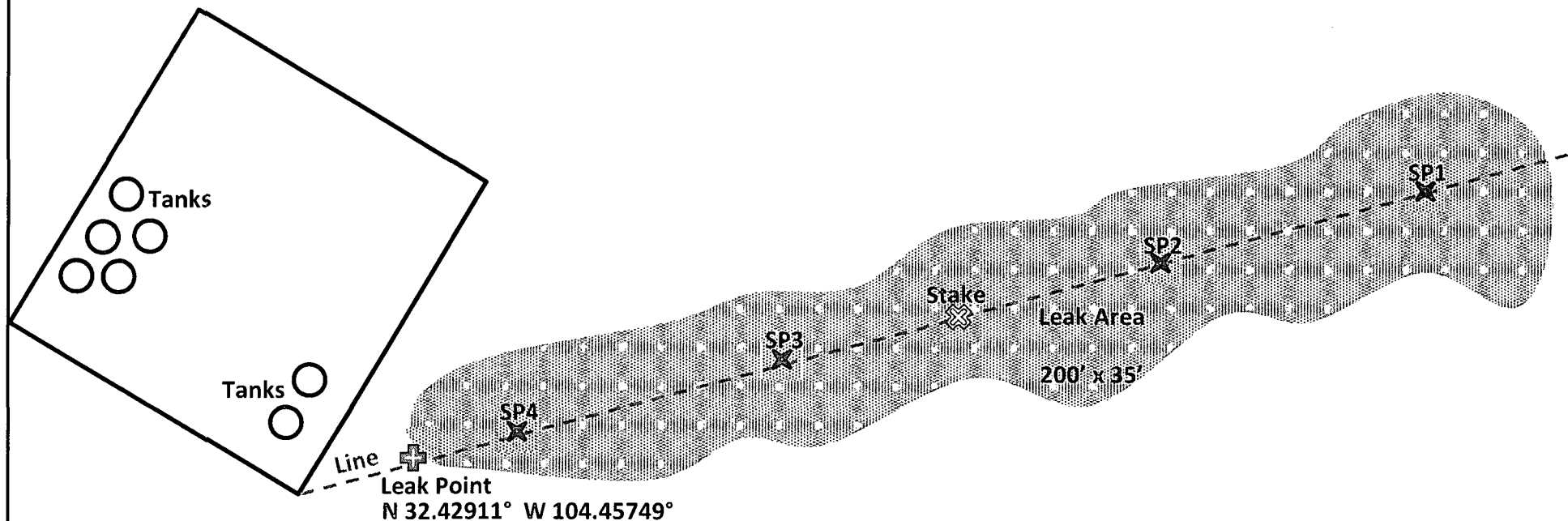
Signature:	Approved by District Supervisor:		
Printed Name: Christopher Jones			
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/27/14 Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary



Oxy

Two Marks 36 State #4



U/L O, Section 36, T21S, R24E

670' FSL and 1905' FEL

Eddy County, NM

GPS at stake: N 32.42917° W 104.45789°

API# 30-015-34833

BBC International, Inc.

Oxy

Two Marks 36 State #4

Date: 10/11/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



# Groundwater Plot

## Oxy Two Marks 36 State #4

County  
Lea

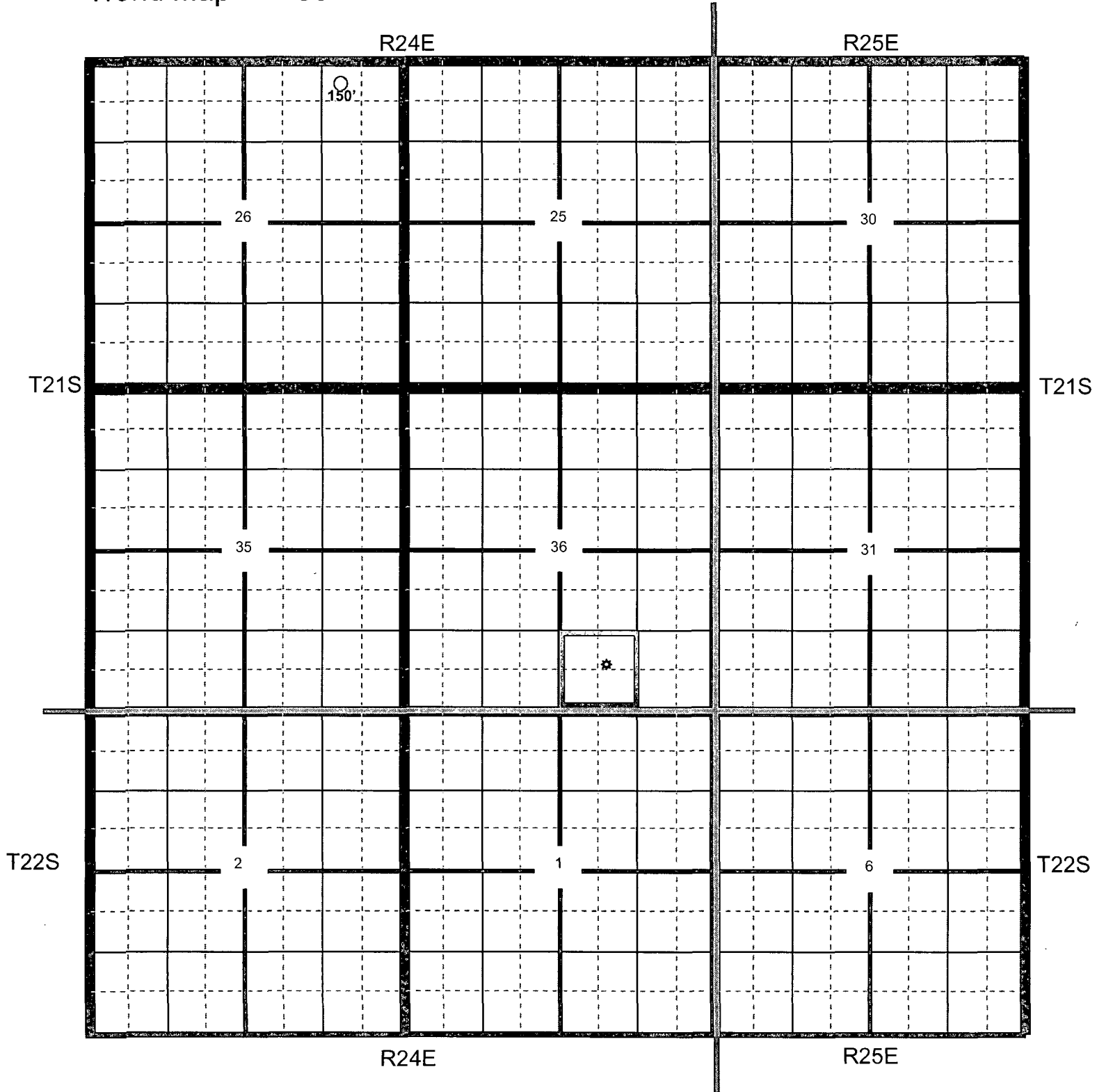
Unit Letter  
O

Section  
36

Township  
21S

Range  
24E

Trend Map <50'



★ Location

○ OCD

○ USGS

○ SEO


● All Databases

# Oxy Two Marks 36 State #4

<i>County</i> Eddy	<i>Unit Letter</i> O	<i>Section</i> 36	<i>Township</i> 21S	<i>Range</i> 24E
-----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map <50'

1 2

NW/NW None found Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O 	SE/SE Unit Letter P

3 4

## Two Marks 36 State #4

AZOTEA PEAK QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



**PROVISIONAL MAP**  
Produced from original  
manuscript drawings. Infor-  
mation shown as of date of  
field check.

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80275  
OR RESTON, VIRGINIA 22092

1	2	3	1. Eugene Fletcher
			2. Arlene Brown
			3. John McMillan (seated)
4		5	4. Maudie Grant
			5. Cephaud B. Ford
			6. Randolph Young
7		8	7. Christine Ford
			8. Billie Mae Clark

**ROAD LEGEND**

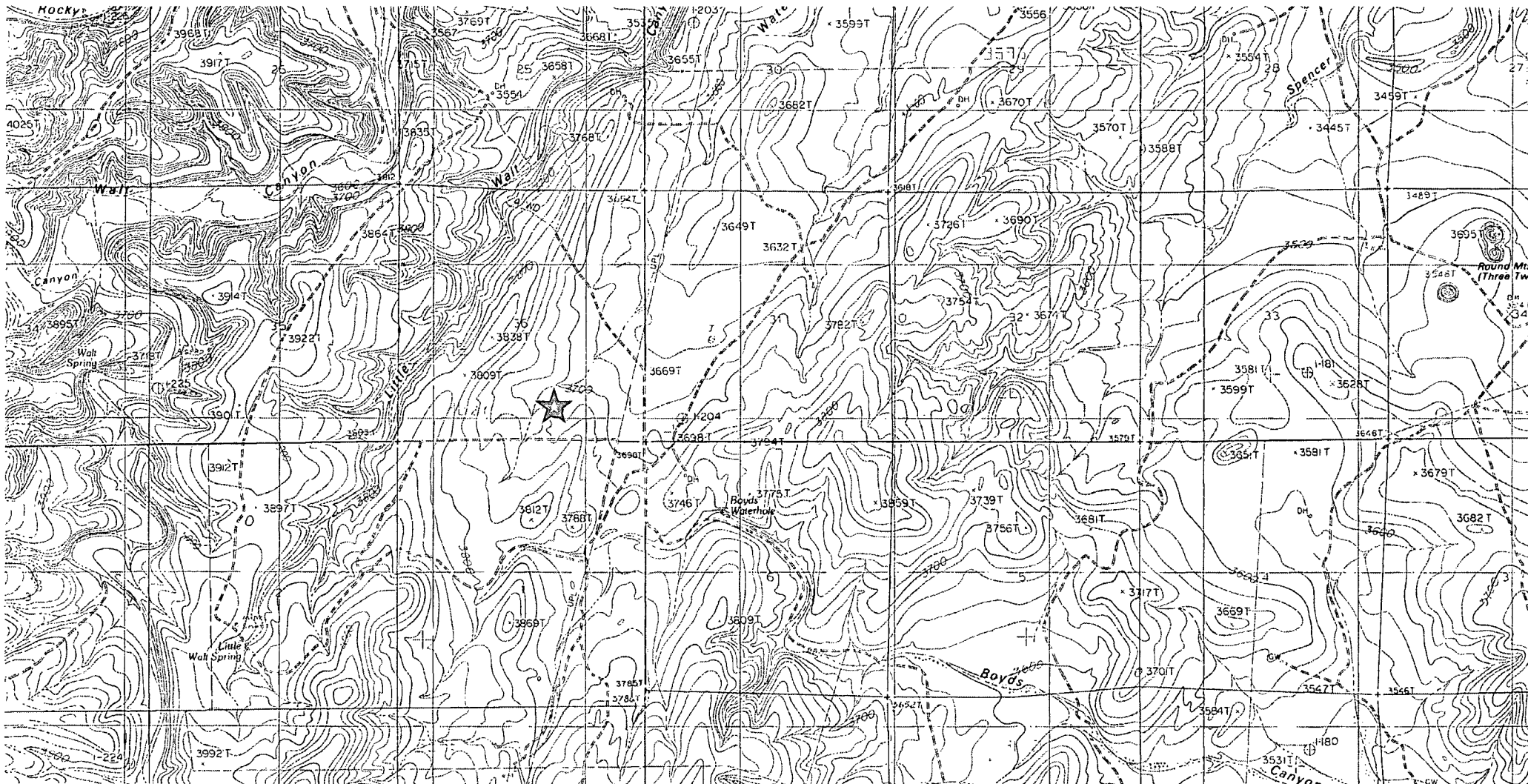
	Improved Road		Unimproved Road
	Trail		Interstate Route
			U.S. Route
			State Route

AZOTEA PEAK, NEW MEXICO  
PROVISIONAL EDITION 1985

WFO-18-TF-024

## Oxy

# Two Marks 36 State #4





**Laboratory Analytical Results Summary  
Two Marks 36 State #4**

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a
Toluene	BTEX 8021B		n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a
Chloride	SM4500Cl-B		2440	2120
GRO	TPH 8015M		n/a	n/a
DRO	TPH 8015M		n/a	n/a

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500Cl-B		32	96
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		10.1	n/a

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a
Toluene	BTEX 8021B		n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a
Chloride	SM4500Cl-B		832	640
GRO	TPH 8015M		n/a	n/a
DRO	TPH 8015M		n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a
Toluene	BTEX 8021B		n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a
Chloride	SM4500Cl-B		160	160
GRO	TPH 8015M		n/a	n/a
DRO	TPH 8015M		n/a	n/a

**Laboratory Analytical Results Summary**  
**Two Marks 36 State #4**

		<b>Sample</b>	<b>SP1 @ 1'</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	2/17/14
			mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>272</b>

December 16, 2013

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

RE: TWO MARKS 36 STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 12/05/13 16:45.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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: 12/05/2013  
 Reported: 12/16/2013  
 Project Name: TWO MARKS 36 STATE #4  
 Project Number: NONE GIVEN  
 Project Location: INDIAN BASIN

 Sampling Date: 12/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H302953-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/16/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 6 IN. (H302953-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	12/16/2013	ND	432	108	400	3.77	

**Sample ID: SP 2 @ SURFACE (H302953-03)**

BTX 8021B		mg/kg		Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34		
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47		
Ethylbenzene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	3.35		
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86		
Total BTX	<0.300	0.300	12/06/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 131 % 89.4-126

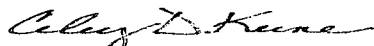
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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

**Analytical Results For:**

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

Received:	12/05/2013	Sampling Date:	12/02/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	TWO MARKS 36 STATE #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 2 @ SURFACE (H302953-03)**

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	12/06/2013	ND	192	96.0	200	11.2	
<b>DRO &gt;C10-C28</b>	<b>10.1</b>	10.0	12/06/2013	ND	190	95.1	200	12.5	
Surrogate: 1-Chlorooctane	103 %	65.2-140							
Surrogate: 1-Chlorooctadecane	100 %	63.6-154							

**Sample ID: SP 2 @ 6 IN. (H302953-04)**

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>96.0</b>	16.0	12/16/2013	ND	432	108	400	3.77		

**Sample ID: SP 3 @ SURFACE (H302953-05)**

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>832</b>	16.0	12/16/2013	ND	432	108	400	3.77		

**Sample ID: SP 3 @ 6 IN. (H302953-06)**

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>640</b>	16.0	12/16/2013	ND	432	108	400	3.77		

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

**Analytical Results For:**

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

Received: 12/05/2013  
Reported: 12/16/2013  
Project Name: TWO MARKS 36 STATE #4  
Project Number: NONE GIVEN  
Project Location: INDIAN BASIN

Sampling Date: 12/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H302953-07)**

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	12/16/2013	ND	432	108	400	3.77		

**Sample ID: SP 4 @ 6 IN. (H302953-08)**

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	12/16/2013	ND	432	108	400	3.77		

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**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              Samples not received at proper temperature of 6°C or below.
- \*\*\*             Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

---

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



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																											
Project Manager: Cliff Brunson				P.O. #:																															
Address: P.O. Box 805				Company:																															
City: Hobbs		State: NM Zip: 88241		Attn:																															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>																															
Project #:		Project Owner: <i>oxy</i>		City:																															
Project Name: <i>Two marks 36 Gate #4</i>				State: Zip:																															
Project Location: <i>Indian Basin</i>				Phone #:																															
Sampler Name: <i>Gary Day</i>				Fax #:																															
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		CL		TPH		B-TX	
H302953																																			
1 SP 2 @ Surface				G 2								X										X				12-2-13		10:00		X					
2 SP 2 @ 6 in				G 1								X										X				12-2-13		10:30		X					
3 SP 2 @ Surface				G 2								X										X				12-2-13		10:48		X		X			
4 SP 2 @ 6 in				G 2								X										X				12-2-13		11:15		X					
5 SP 3 @ Surface				G 2								X										X				12-2-13		11:38		X					
6 SP 3 @ 6 in				G 2								X										X				12-2-13		12:00		X					
7 SP 4 @ Surface				G 2								X										X				12-2-13		12:45		X					
8 SP 4 @ 6 in				G 2								X										X				12-2-13		1:15		X					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, 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:		Date: 12/5/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 4:45						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:									
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

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

#54



February 21, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWO MARKS 36 STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 02/18/14 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

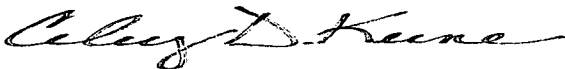
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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: 02/18/2014  
Reported: 02/21/2014  
Project Name: TWO MARKS 36 STATE #4  
Project Number: NONE GIVEN  
Project Location: INDIAN BASIN

Sampling Date: 02/17/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

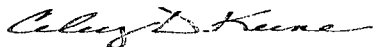
**Sample ID: SP 1 @ 6 INCHES (H400484-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/20/2014	ND	386	96.5	400	3.56	

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



## Page 4 of 4

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, 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.

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

#54

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Monday, January 13, 2014 11:44 AM  
**To:** Cliff P. Brunson  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Two Marks 36 State #4-Remediation Plan

Reference: OXY USA \* Two Marks 36 St 004 \* 30-015-34833 \* O-36-21s-24e \* Eddy County, New Mexico  
NMOCD Reference number: 2RP-1981 \* Date of release: 9/26/2013

Cliff,

Your proposal for remediation of the above referenced release is approved. Please notify OCD prior to commencement of remedial activities.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, January 02, 2014 12:38 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Two Marks 36 State #4-Remediation Plan

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will surface scrape the entire spill area and at SP-1 will resample to delineate to a minimum of 1,000 ppm Chloride and present the lab results to the NMOCD.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists

Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

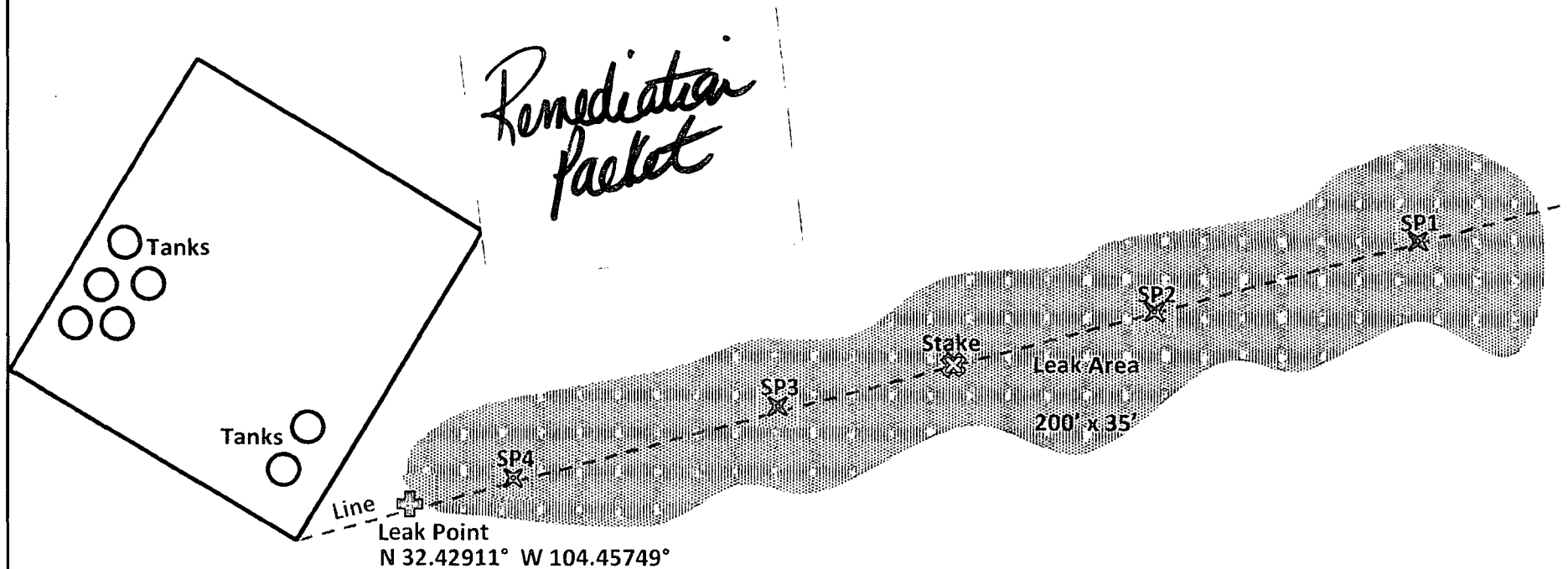
\*\*\*\*\*

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

\*\*\*\*\*



Oxy  
Two Marks 36 State #4



U/L O, Section 36, T21S, R24E

670' FSL and 1905' FEL

Eddy County, NM

GPS at stake: N 32.42917° W 104.45789°

API# 30-015-34833

BBC International, Inc.

Oxy

Two Marks 36 State #4

Date: 10/11/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



# Groundwater Plot

## Oxy Two Marks 36 State #4

County  
Lea

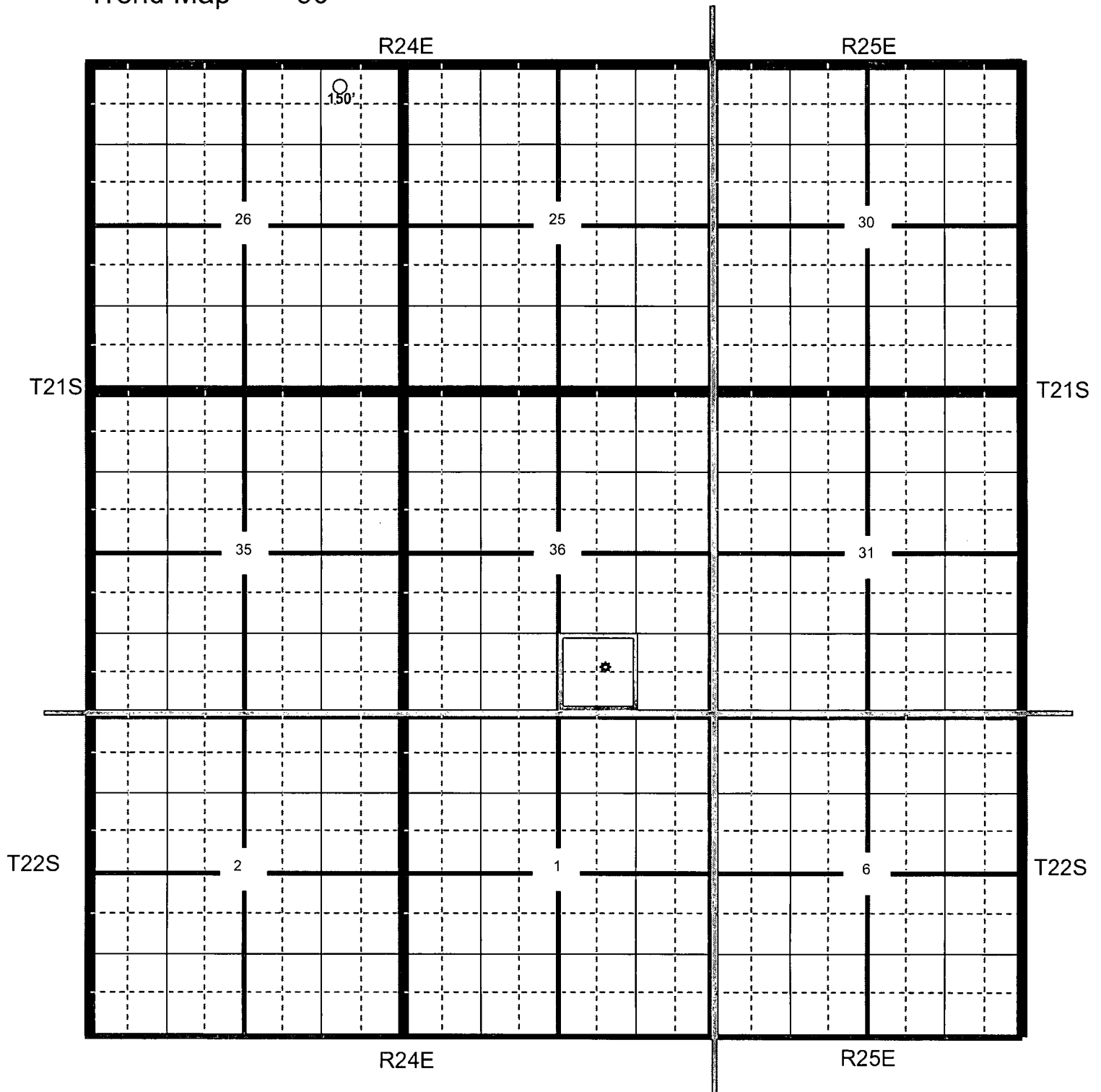
Unit Letter  
O

Section  
36

Township  
21S

Range  
24E

Trend Map <50'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases





## Section Quarters

### Oxy Two Marks 36 State #4

**County**  
Eddy

**Unit Letter**  
O

**Section**  
36

**Township**  
21S

**Range**  
24E

Trend Map <50'

1

2

NW/NW None found	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	SW/SE ✱	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

✱ Location

○ OCD

○ USGS

○ SEO

● All Databases

**Laboratory Analytical Results Summary  
Two Marks 36 State #4**

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>2440</b>	<b>2120</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<b>10.1</b>	n/a

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>832</b>	<b>640</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	12/2/13	12/2/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>160</b>	<b>160</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

December 16, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWO MARKS 36 STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 12/05/13 16:45.

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).

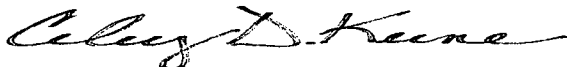
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



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: 12/05/2013  
 Reported: 12/16/2013  
 Project Name: TWO MARKS 36 STATE #4  
 Project Number: NONE GIVEN  
 Project Location: INDIAN BASIN

 Sampling Date: 12/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H302953-01)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/16/2013	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 6 IN. (H302953-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	12/16/2013	ND	432	108	400	3.77	

**Sample ID: SP 2 @ SURFACE (H302953-03)**

BTEX 8021B			mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34		
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47		
Ethylbenzene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	3.35		
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86		
Total BTEX	<0.300	0.300	12/06/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2013	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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

**Analytical Results For:**

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

 Received: 12/05/2013  
 Reported: 12/16/2013  
 Project Name: TWO MARKS 36 STATE #4  
 Project Number: NONE GIVEN  
 Project Location: INDIAN BASIN

 Sampling Date: 12/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H302953-03)**

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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	10.1	10.0	12/06/2013	ND	190	95.1	200	12.5	
Surrogate: 1-Chlorooctane	103 %	65.2-140							
Surrogate: 1-Chlorooctadecane	100 %	63.6-154							

**Sample ID: SP 2 @ 6 IN. (H302953-04)**

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>96.0</b>	16.0	12/16/2013	ND	432	108	400	3.77	

**Sample ID: SP 3 @ SURFACE (H302953-05)**

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>832</b>	16.0	12/16/2013	ND	432	108	400	3.77	

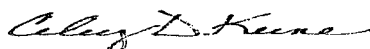
**Sample ID: SP 3 @ 6 IN. (H302953-06)**

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>640</b>	16.0	12/16/2013	ND	432	108	400	3.77	

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

**Analytical Results For:**

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

Received: 12/05/2013  
Reported: 12/16/2013  
Project Name: TWO MARKS 36 STATE #4  
Project Number: NONE GIVEN  
Project Location: INDIAN BASIN

Sampling Date: 12/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H302953-07)**

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	12/16/2013	ND	432	108	400	3.77		

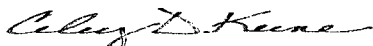
**Sample ID: SP 4 @ 6 IN. (H302953-08)**

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	12/16/2013	ND	432	108	400	3.77		

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**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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

Page 6 of 6

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM Zip: 88241		Attn:															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:															
Project #:		Project Owner: Oxy		City: Same															
Project Name: Two marks 36 State #4				State: Zip:															
Project Location: Indian Basin				Phone #:															
Sampler Name: Gary Day				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING							
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER:											
								ACID/BASE:											
								ICE / COOL											
								OTHER:											
										DATE		TIME							
H302953																			
1 SP 1 @ Surface		G 2						X		X		10:20		X					
2 SP 1 @ 6 in		G 1						X		X		10:30		X					
3 SP 2 @ Surface		G 2						X		X		10:48		X					
4 SP 2 @ 6 in		G 2						X		X		11:15		X					
5 SP 3 @ Surface		G 2						X		X		11:38		X					
6 SP 3 @ 6 in		G 2						X		X		12:00		X					
7 SP 4 @ Surface		G 2						X		X		12:45		X					
8 SP 4 @ 6 in		G 2						X		X		1:15		X					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, 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:		Date: 12/13/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 4:45				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool <input type="checkbox"/> Intact <input type="checkbox"/>					
				5.80					

† 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  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Two Marks 36 State #4	Facility Type	Well location
Surface Owner	State	Mineral Owner	API No. 30-015-34833

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	36	21S	24E	670	South	1905	East	Eddy County, NM

Latitude N 32.43007° Longitude W 104.4490°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	90 bbls	Volume Recovered	0 bbls
Source of Release	4" steel disposal line	Date and Hour of Occurrence	09/26/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD		
By Whom?	Christopher Jones	Date and Hour	09/30/2013 @ 9:07 am		
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 leak in a 4" steel disposal line caused 90 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 area affected is approximately 350' x 30'. Remediation will be completed in accordance with an approved 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:		OIL CONSERVATION DIVISION			
Printed Name: Christopher Jones		Approved by District Supervisor:			
Title: HES Specialist		Approval Date:		Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 10-8-13		Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary