

**Bratcher, Mike, EMNRD**

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Monday, April 01, 2013 7:58 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Oxy-Old Ranch Knoll 8 Federal #6-Remediation Plan  
**Attachments:** Remediation Packet- Old Ranch Knoll 8-6 with leak date (1-15-13).pdf

Mike,

This e-mail is to confirm our discussion on March 25, 2013 concerning the remediation plan for the release that occurred at the Oxy Old Ranch Knoll 8 Federal #6. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 6 inches across the entire leak area at the site. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 50 feet.

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

Oxy and I thank you for your assistance in handling this matter.

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)

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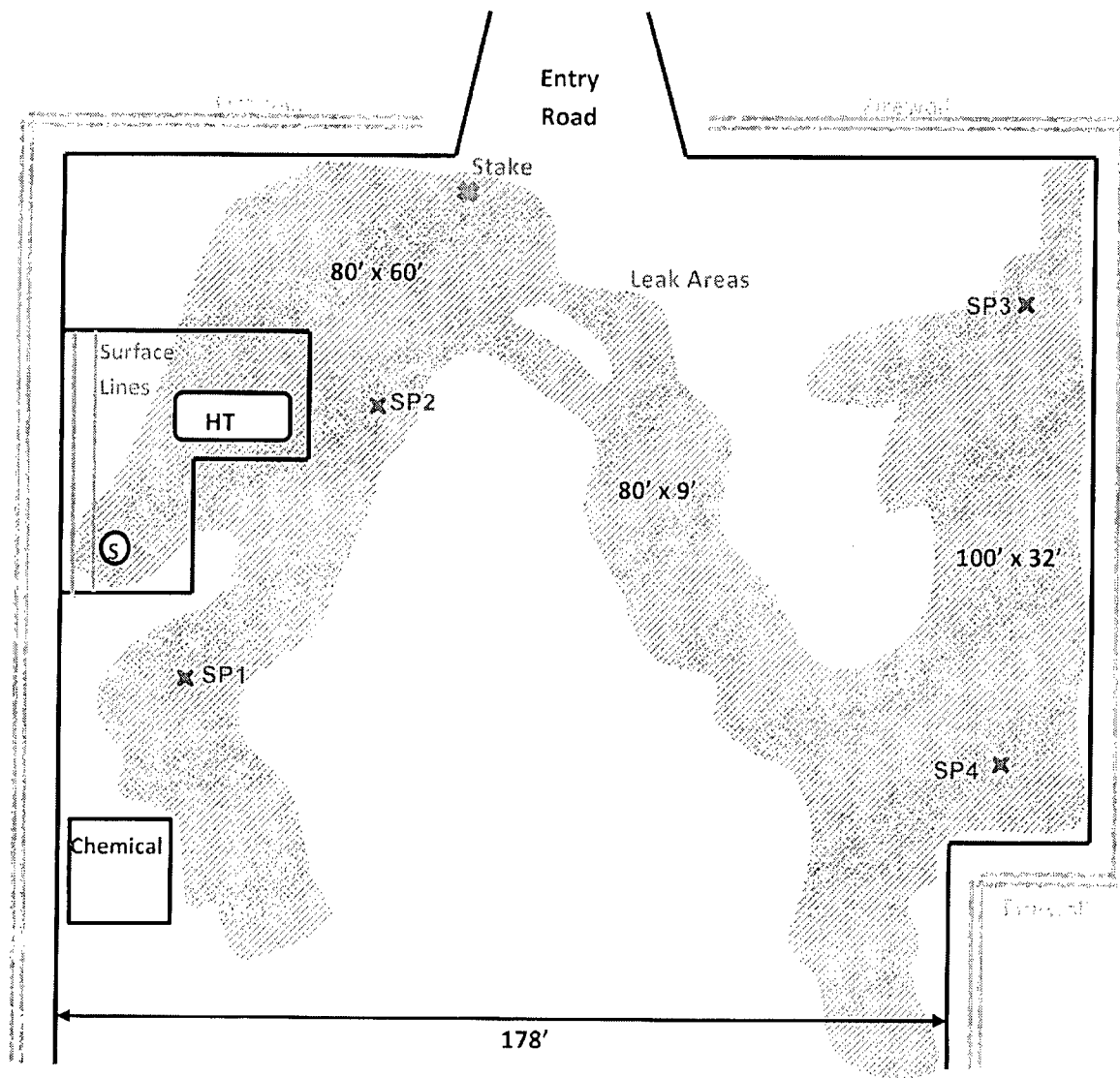
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Oxy

Old Ranch Knoll 8 Federal #6 (Leak date: 1/15/13)



U/L G, Section 8, T22S, R24E

2120' FNL and 1600' FEL

Eddy County, NM

GPS at Stake: N 32.40723° W 104.51708°

API # 30-015-32295

BBC International, Inc.

Oxy

Old Ranch Knoll 8 Fed #6

Date: 01/25/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

# Groundwater Plot

Oxy Old Ranch Knoll 8 Federal #7  
(Leak Date: 1/15/13)

County  
Eddy

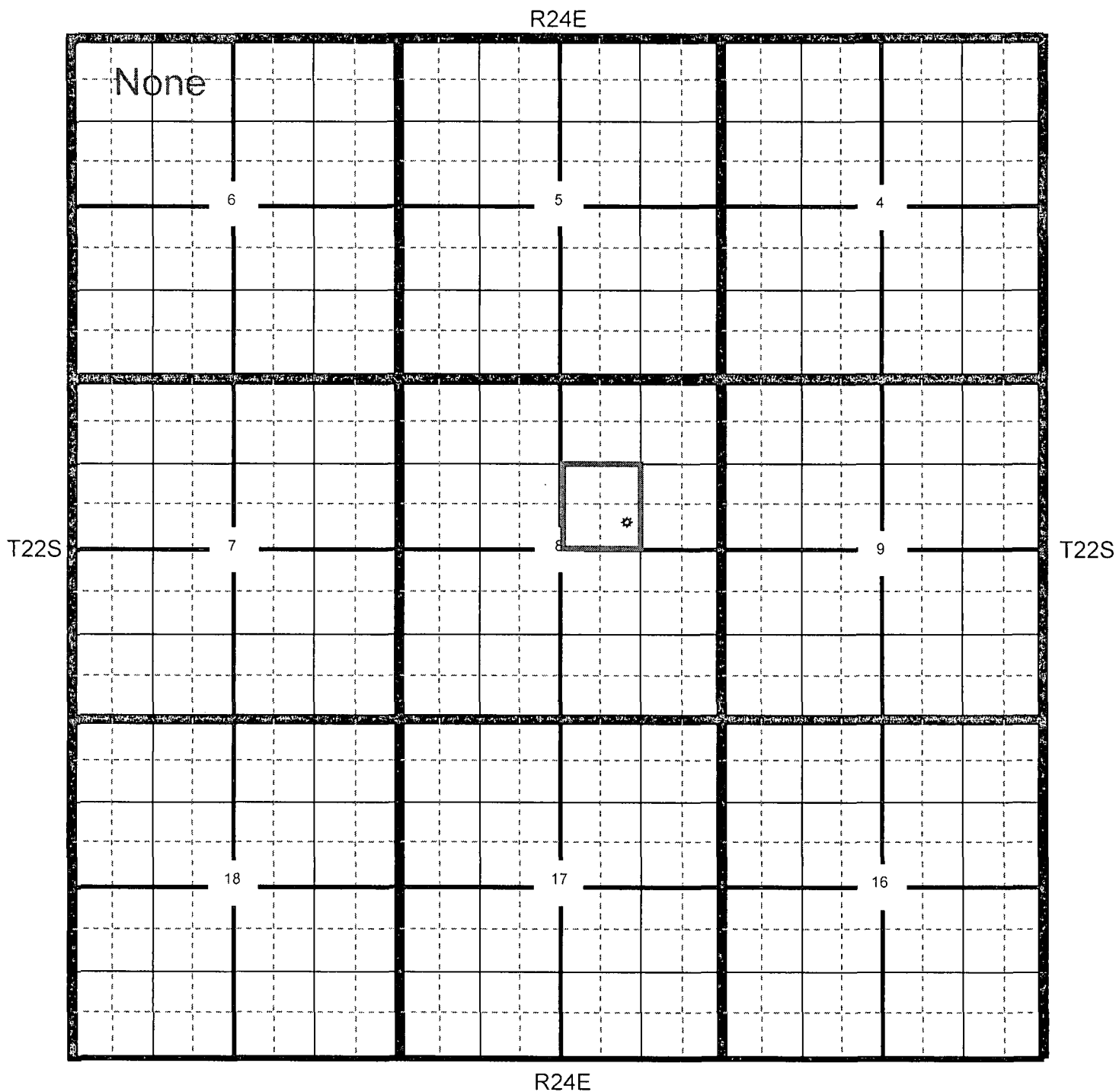
Unit Letter  
G

Section  
8

Township  
22S

Range  
24E

Trend Map <50'



Location

OCD

USGS

SEO

All Databases

Section Quarters

Oxy Old Ranch Knoll 8 Federal #7  
(Leak Date: 1/15/13)

County  
Eddy

Unit Letter  
G

Section  
8

Township  
22S

Range  
24E

Trend Map <50'

1

2

NW/NW None	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

**Laboratory Analytical Results Summary  
Old Ranch Knoll 8 #6**

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			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		4800	64
GRO	TPH 8015M		<10.0	N/A
DRO	TPH 8015M		<10.0	N/A

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4880	96

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	<0.050
Toluene	BTEX 8021B		N/A	<0.050
Ethylbenzene	BTEX 8021B		N/A	<0.050
Total Xylenes	BTEX 8021B		N/A	<0.150
Total BTEX	BTEX 8021B		N/A	<0.300
Chloride	SM4500Cl-B		4800	96
GRO	TPH 8015M		N/A	<10.0
DRO	TPH 8015M		N/A	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	2/6/13	2/6/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4640	64

February 15, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: OLD RANCH KNOLL 8 #6

Enclosed are the results of analyses for samples received by the laboratory on 02/07/13 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:	02/07/2013	Sampling Date:	02/06/2013
Reported:	02/15/2013	Sampling Type:	Soil
Project Name:	OLD RANCH KNOLL 8 #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ SURFACE (H300348-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTEX	<0.300	0.300	02/12/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	02/08/2013	ND	448	112	400	7.41	

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	02/08/2013	ND	203	101	200	10.2	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	192	96.1	200	15.1	

Surrogate: 1-Chlorooctane 72.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.4 % 63.6-154

**Sample ID: SP 1 @ 6" (H300348-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/08/2013	ND	448	112	400	7.41	

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:	02/07/2013	Sampling Date:	02/06/2013
Reported:	02/15/2013	Sampling Type:	Soil
Project Name:	OLD RANCH KNOLL 8 #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ SURFACE (H300348-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	02/08/2013	ND	448	112	400	7.41		

**Sample ID: SP 2 @ 6" (H300348-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/08/2013	ND	448	112	400	7.41		

**Sample ID: SP 3 @ SURFACE (H300348-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	02/08/2013	ND	448	112	400	7.41		

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\* = 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:	02/07/2013	Sampling Date:	02/06/2013
Reported:	02/15/2013	Sampling Type:	Soil
Project Name:	OLD RANCH KNOLL 8 #6	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 6" (H300348-06)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.13	
Toluene*	<0.050	0.050	02/12/2013	ND	1.96	98.0	2.00	7.02	
Ethylbenzene*	<0.050	0.050	02/12/2013	ND	1.95	97.3	2.00	7.49	
Total Xylenes*	<0.150	0.150	02/12/2013	ND	5.93	98.8	6.00	7.14	
Total BTX	<0.300	0.300	02/12/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/08/2013	ND	448	112	400	7.41	

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	02/08/2013	ND	203	101	200	10.2	
DRO >C10-C28	<10.0	10.0	02/08/2013	ND	192	96.1	200	15.1	

Surrogate: 1-Chlorooctane 77.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.2 % 63.6-154


**Sample ID: SP 4 @ SURFACE (H300348-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	02/08/2013	ND	448	112	400	7.41	

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\*=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: 02/07/2013  
Reported: 02/15/2013  
Project Name: OLD RANCH KNOLL 8 #6  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/06/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 6" (H300348-08)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: DW**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/08/2013	ND	448	112	400	7.41	

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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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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

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																			
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: SAME																					
Project #: Project Owner: OXY		City:																					
Project Name: Old Ranch Knoll B # 6		State: Zip:																					
Project Location:		Phone #:																					
Sampler Name: Roger Hernandez		Fax #:																					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																	
Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACIDBASE	ICE/COOL	OTHER	DATE	TIME												
H300318																							
1	SP10T SP10Surface	1		1			✓			26-13	1220	✓	✓										
2	SP10T SP10Surface	1		1			✓			26-13	1240	✓	✓										
3	SP20T SP20Surface	1		1			✓			26-13	100	✓	✓										
4	SP20T SP20Surface	1		1			✓			26-13	120	✓	✓										
5	SP30T SP30Surface	1		1			✓			26-13	140	✓	✓										
6	SP40T SP40Surface	1		1			✓			26-13	200	✓	✓										
7	SP40T SP40Surface	1		1			✓			26-13	215	✓	✓										
8	SP40T SP40Surface	1		1			✓			26-13	240	✓	✓										

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Relinquished By: <i>RH</i>	Date: 6-7-13 Time: 6:30	Received By: <i>Kelli Jensen</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>CH</i>

REMARKS:

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

#26

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	Old Ranch Knoll 8 Federal #6	Facility Type	
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-32295

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	8	22S	24E	2120	North	1600	East	Eddy County, NM

Latitude N 32.40723° Longitude W 104.51700

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	100 bbls	Volume Recovered	70 bbls
Source of Release	3" steel water line from discharge side of 3 phase separator	Date and Hour of Occurrence	1/15/13	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, James Amos-BLM, Terry Gregston-BLM			
By Whom?	Christopher Jones	Date and Hour	1/16/13 @ 7:20 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 3" steel water line from the discharge side of the 3 phase separator broke causing 100 bbls of produced water to leak onto the ground. 70 bbls were recovered via vacuum truck. The well is going to be plugged.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is approximately 175' x 80'. A 3" steel water line from the discharge side of the 3 phase separator broke causing 100 bbls of produced water to leak onto the ground. 70 bbls were recovered via vacuum truck. The well is going to be plugged. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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: 1/17/13 Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary