

Bratcher, Mike, EMNRD

From: Cliff P. Brunson <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
Attachments: Remediation Packet- Two Marks 36-4.pdf

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.

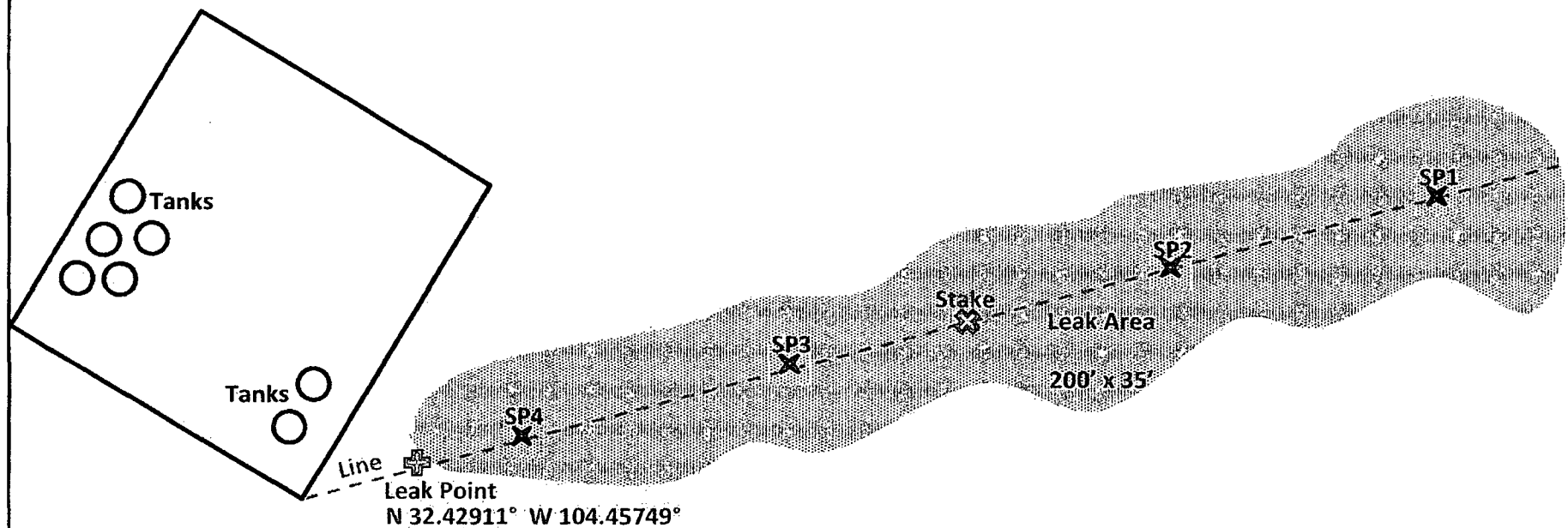
Thanks, Cliff

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
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E-Mail: cbrunson@bbcinternational.com

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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

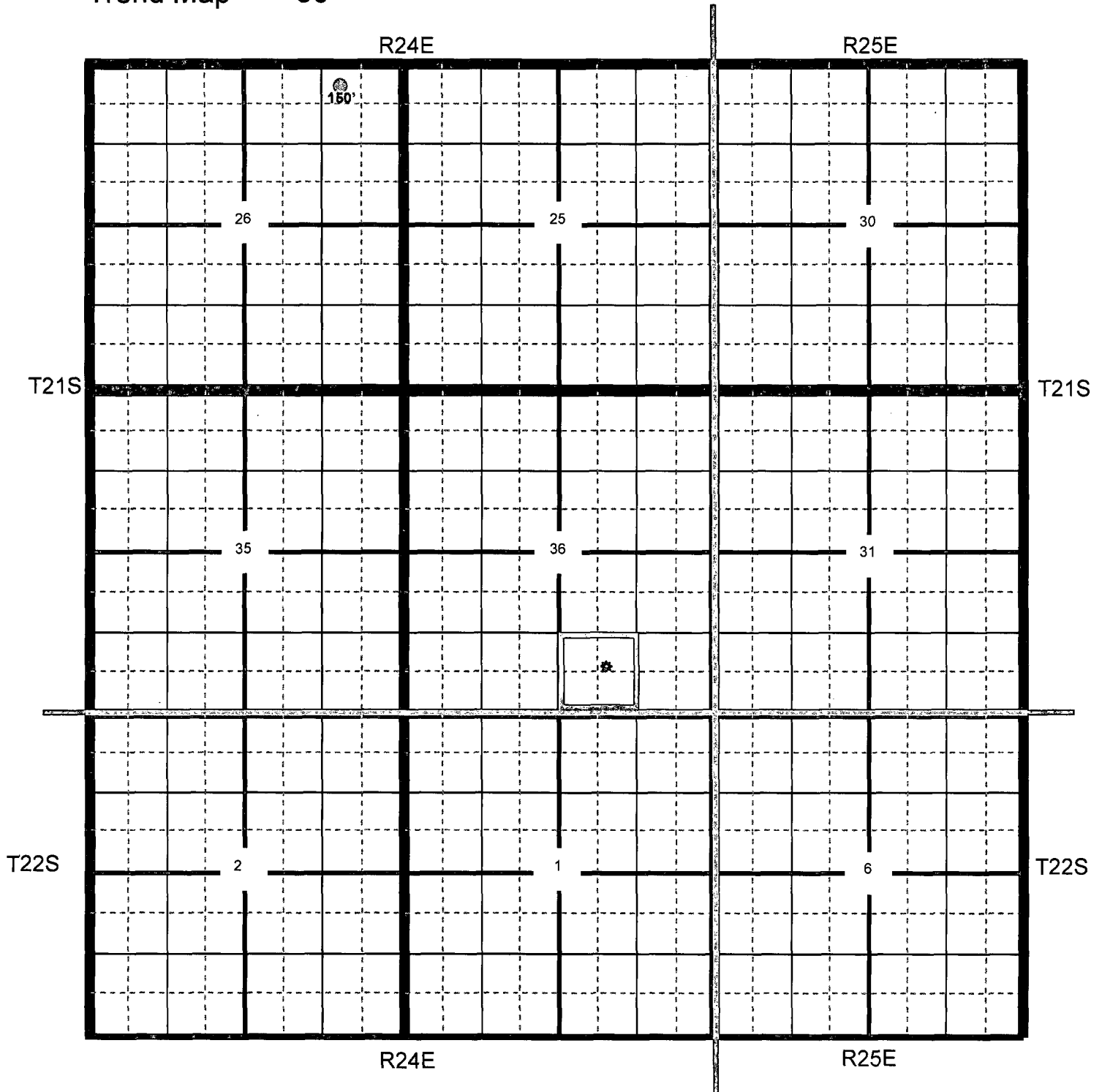
Unit Letter
O

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 ★ Unit Letter O	SE/SE
Unit Letter M	Unit Letter N		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
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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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.

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, SM4500CI-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 (PIC) 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

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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:	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	
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
Chloride	96.0	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
Chloride	832	16.0	12/16/2013	ND	432	108	400	3.77	

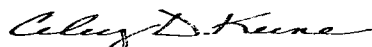
Sample ID: SP 3 @ 6 IN. (H302953-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/16/2013	ND	432	108	400	3.77	

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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: 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		

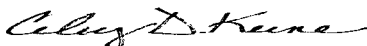
Sample ID: SP 4 @ 6 IN. (H302953-08)

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		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

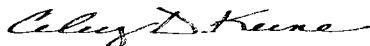
Notes and Definitions

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

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*=Accredited Analyte

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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

Page 6 of 6

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: <i>Same</i>																							
Project #:		Project Owner: <i>OHY</i>		City: <i>Same</i>																							
Project Name: <i>Two marks 36 State #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		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<i>H302953</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 10:00</i>		<i>CL</i>											
<i>1 SP 2 @ Surface</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 10:30</i>		<i>TPH</i>											
<i>2 SP 2 @ 6 in</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 10:48</i>		<i>B-Tex</i>											
<i>3 SP 2 @ Surface</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 11:15</i>													
<i>4 SP 2 @ 6 in</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 11:38</i>													
<i>5 SP 3 @ Surface</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 12:00</i>													
<i>6 SP 3 @ 6 in</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 12:45</i>													
<i>7 SP 4 @ Surface</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>		<i>12-2-13 1:15</i>													
<i>8 SP 4 @ 6 in</i>				<i>6 2</i>		<i>6 2</i>						<i>X</i>															

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Relinquished By: <i>[Signature]</i>		Date: <i>12/5/13</i>		Received By: <i>Jodi Benson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>4:45</i>		Date:		Received By:		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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>[Signature]</i>			

† 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