

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

HOBBS OCD

Form C-141  
Revised August 8, 2011

JUL 22 2014

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Falcon Federal #1	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-32190

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	I	24S	34E	1980	South	660	East	Lea County, NM

Latitude N 32.24°

Longitude W 103.42°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	4 bbls oil, 6 bbls produced water	Volume Recovered	0 bbls
Source of Release	stuffing box packing blew off the well head	Date and Hour of Occurrence	02/24/2014	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?	Geoffrey Leking, NMOCD and Jennifer VanCuren, BLM		
By Whom?	Kathy Purvis	Date and Hour	02/24/2014 @ 4:29 pm		
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.\*  
The stuffing box packing blew off the well head causing 4 bbls of oil and 6 bbls of produced water to leak onto the ground. No fluids were recovered and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 40' x 60' on location. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 04/07/2014 and approved by Jennifer Van Curen of the BLM via email on 04/07/2014.

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.

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Chancey Summers	Approved by Environmental Specialist:	
Title:	HES Specialist	Approval Date:	7-23-14
E-mail Address:	Chancey.Summers@oxy.com	Expiration Date:	
Date:	7-16-14	Conditions of Approval:	
Phone:	(575) 397-8216	Attached	<input type="checkbox"/>
			7-14-3192

\* Attach Additional Sheets If Necessary

JUL 22 2014

09:09 16896  
170 04/20 439235  
P 10 14 20 43996

# Closure Report

Site Description		
Site Name:	Falcon Federal #1	
Company:	Oxy Permian Ltd.	
Legal Description:	U/L I, Section 1, T24S, R34E	<b>HOBBS OCD</b>
County:	Lea County, NM	
GPS Coordinates:	N 32.24463° W 103.41726°	<b>JUL 22 2014</b>

Release Data	
Date of Release:	02/24/2014
Type of Release:	Oil and produced water
Source of Release:	Stuffing box packing blew off the well head
Volume of Release:	4 bbls oil and 6 bbls produced water
Volume Recovered:	0 bbls

Remediation Specifications	
Remediation Parameters:	Excavate to a depth of 1' in the entire leak area. Obtain confirmation sidewall samples. Berm the well pad. Backfill the site with clean soil.
Remediation Activities:	06/13/2014 to 07/11/2014

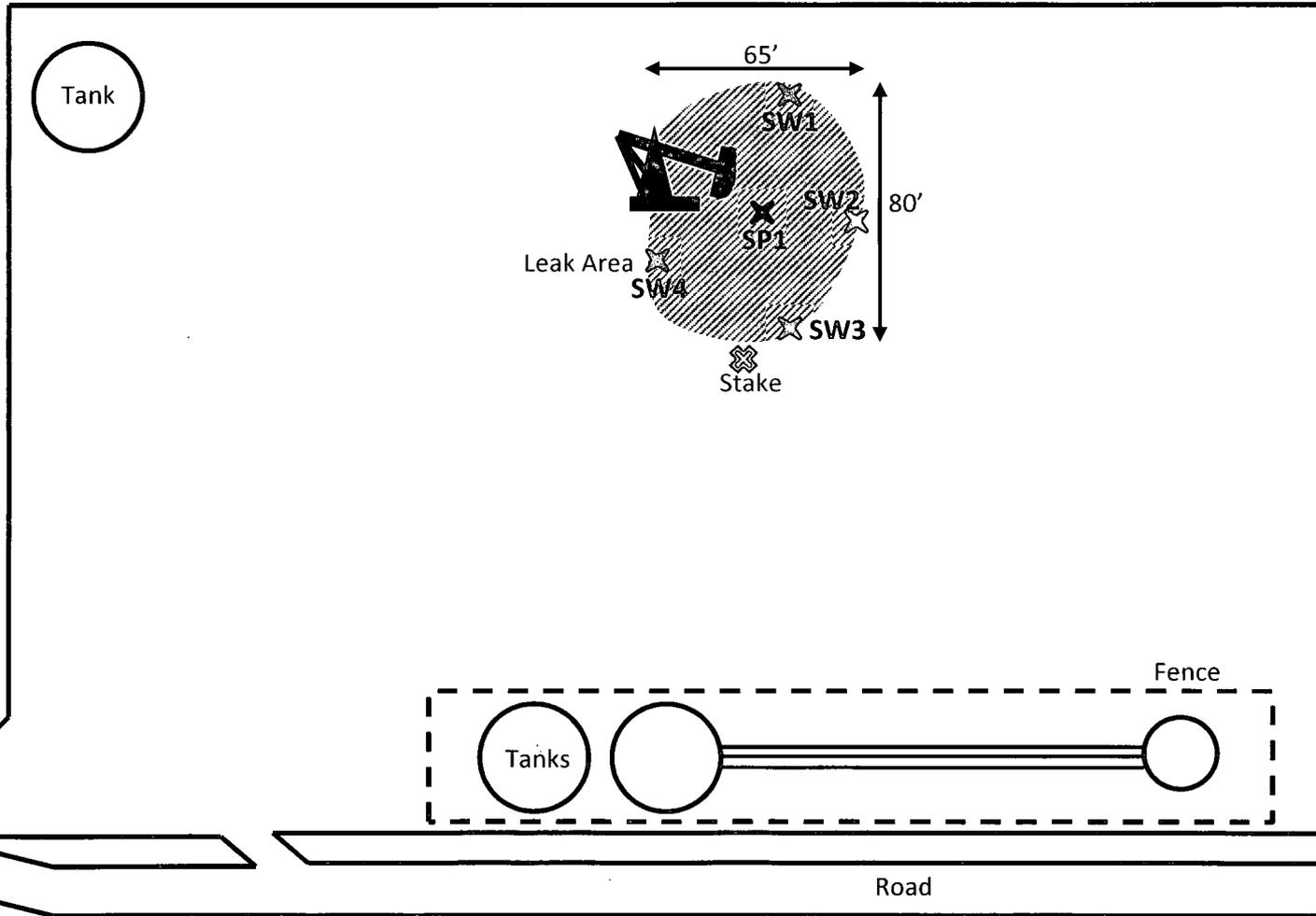
Plan Sent to OCD:	04/05/2014	Email from Cliff Brunson to Geoff Leking
OCD Approval of Plan:	04/07/2014	Email from Geoff Leking to Cliff Brunson
Plan Sent to BLM:	04/05/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/07/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 02/26/2014
Final C-141	Signed 07/16/2014
Site Diagram	February 2014
Groundwater Plot	150'
TOPO Maps	February 2014
Lab Summary	03/10/2014 and 07/03/2014
Lab Analysis	03/10/2014 and 07/03/2014
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.	07/18/2014



Oxy  
Falcon Federal #1



U/L I, Section 1, T24S, R34E  
1980' FSL, 660' FEL  
Lea County, NM  
N 32.24463° W 103.41726° at stake  
API# 30-025-32190

- ✕ Initial Sampling Event
- ✕ Confirmation Sidewall Sampling Event

BBC International, Inc.	
Oxy Falcon Federal #1	
Date: 02/28/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

## Oxy Falcon Federal #1

County  
Lea

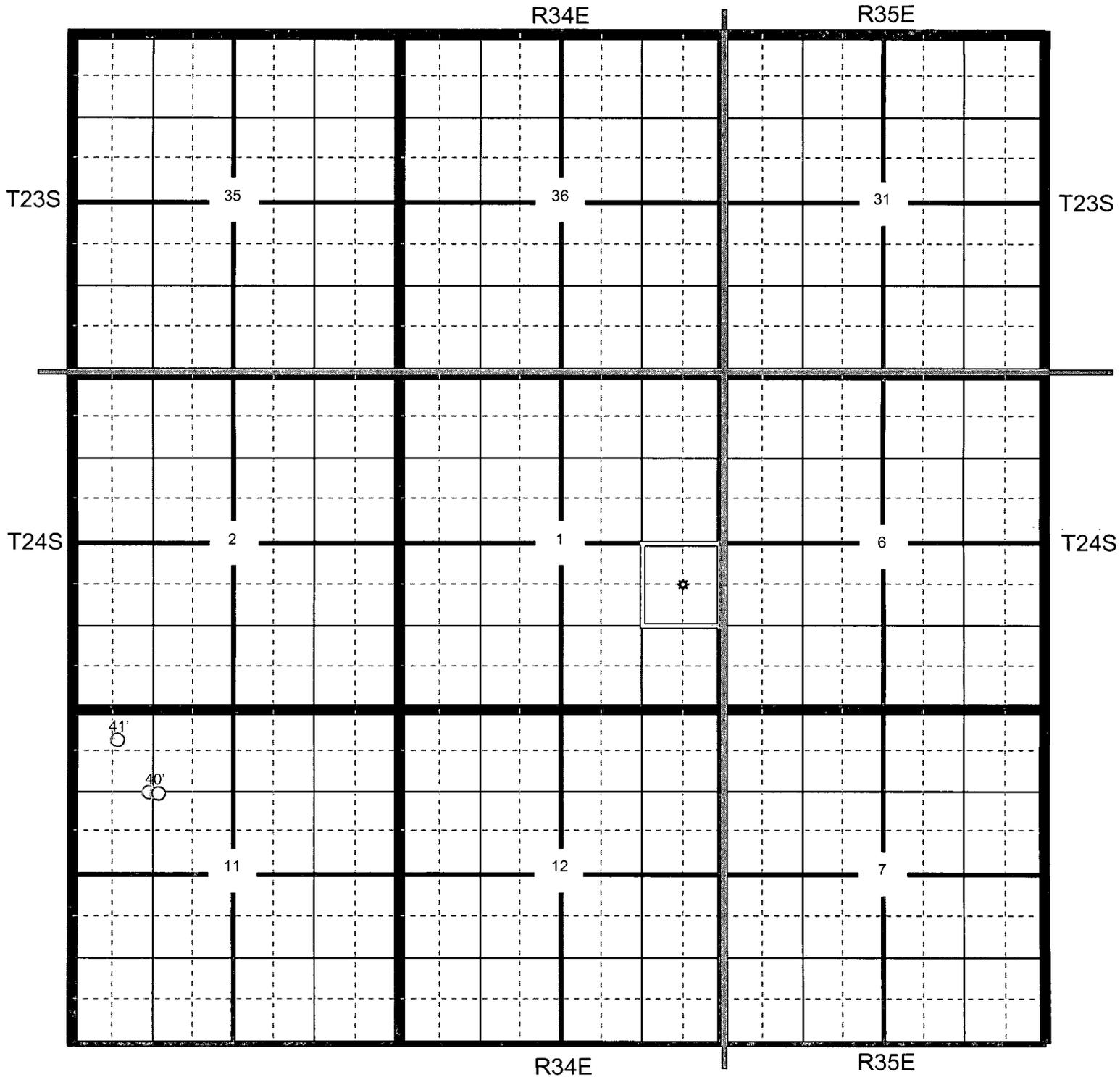
Unit Letter  
I

Section  
1

Township  
24S

Range  
34E

Trend Map 150'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Oxy Falcon Federal #1

County: Lea      Unit Letter: I      Section: 1      Township: 24S      Range: 34E

Trend Map 150'

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 I
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

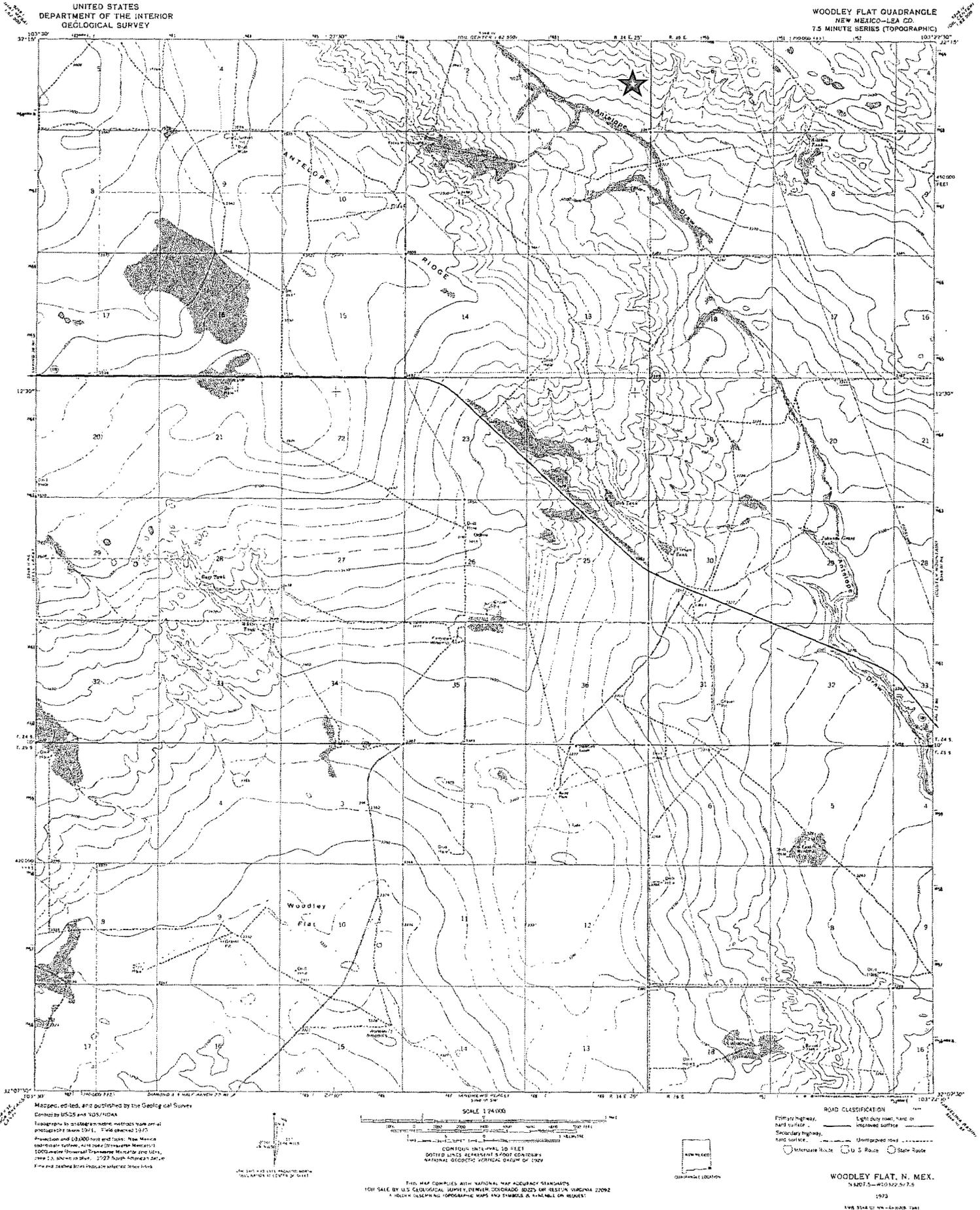
○ USGS

○ SEO

⊛ All Databases

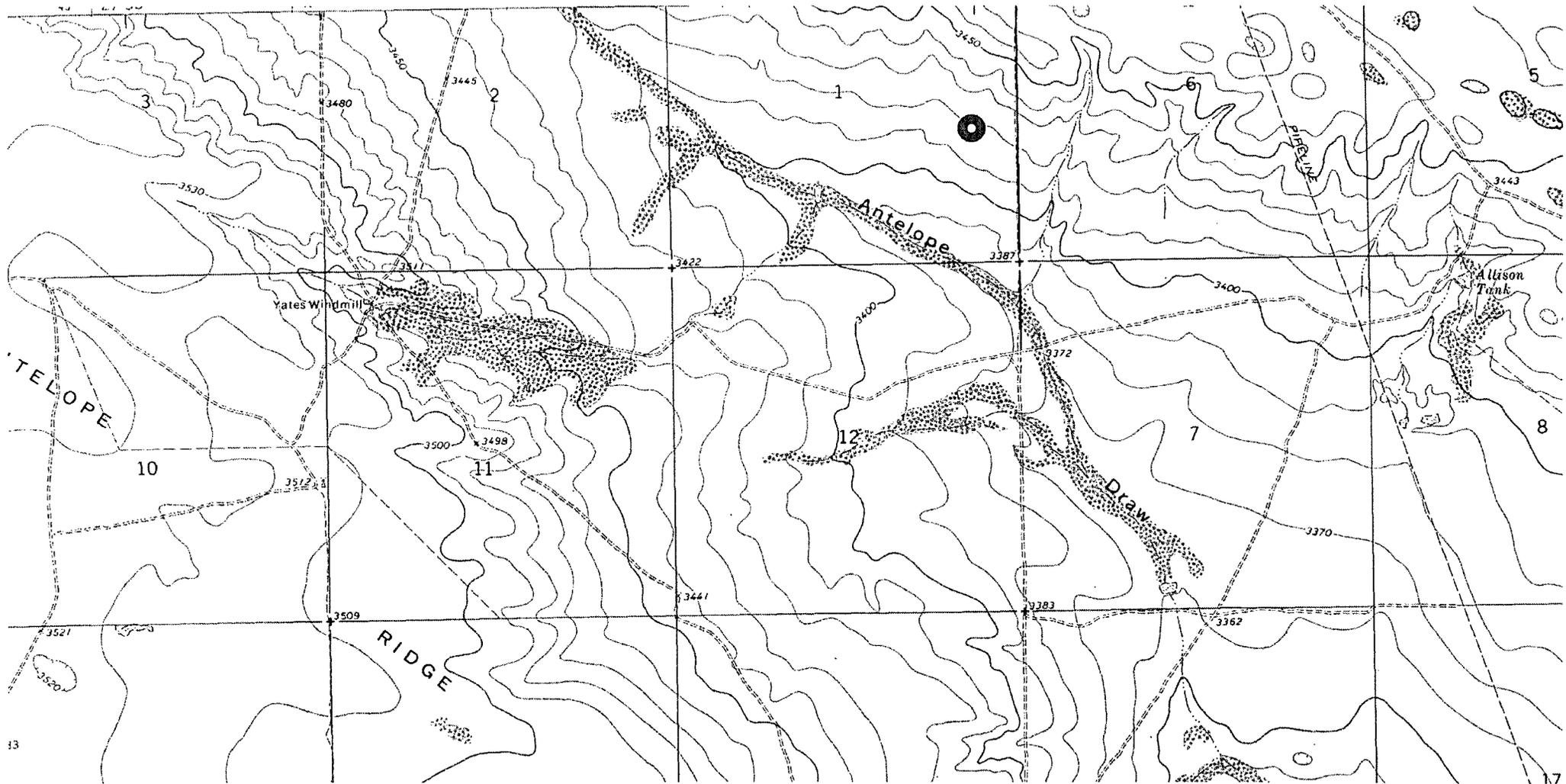
# Oxy

## Falcon Federal #1



# Oxy

## Falcon Federal #1



**Laboratory Analytical Results Summary  
Falcon Federal #1**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	3/10/14	3/10/14	3/10/14	3/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>2.47</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>94.2</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>46.9</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>133</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>277</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>2560</b>	<b>432</b>	<b>256</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>4340</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>35500</b>	<b>319</b>	<b>12.1</b>	<10.0

**Laboratory Analytical Results Summary  
Falcon Federal #1**

		Sample	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4
Analyte	Method	Date	7/3/14	7/3/14	7/3/14	7/3/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0



March 14, 2014

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

RE: FALCON FED #1

Enclosed are the results of analyses for samples received by the laboratory on 03/11/14 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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ SURFACE (H400742-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.47</b>	2.00	03/13/2014	ND	2.34	117	2.00	1.68		
<b>Toluene*</b>	<b>94.2</b>	2.00	03/13/2014	ND	2.21	110	2.00	1.28		
<b>Ethylbenzene*</b>	<b>46.9</b>	2.00	03/13/2014	ND	2.17	108	2.00	1.30		
<b>Total Xylenes*</b>	<b>133</b>	6.00	03/13/2014	ND	6.22	104	6.00	1.17		
<b>Total BTEX</b>	<b>277</b>	12.0	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 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	
<b>Chloride</b>	<b>2560</b>	16.0	03/13/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>4340</b>	50.0	03/13/2014	ND	199	99.6	200	8.31			
<b>DRO &gt;C10-C28</b>	<b>35500</b>	50.0	03/13/2014	ND	194	96.9	200	5.88			

Surrogate: 1-Chlorooctane 259 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.8 % 63.6-154

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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H400742-02)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	432	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	319	10.0	03/13/2014	ND	194	96.9	200	5.88		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 145 % 63.6-154

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**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H400742-03)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	12.1	10.0	03/13/2014	ND	194	96.9	200	5.88		

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 63.6-154

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**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H400742-04)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	<10.0	10.0	03/13/2014	ND	194	96.9	200	5.88		

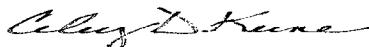
Surrogate: 1-Chlorooctane 97.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Page 7 of 7

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>OKY</i>		City:															
Project Name: <i>Falcon FED # 1</i>		State: Zip:															
Project Location:		Phone #:															
Sampler Name: <i>Roger Hernandez</i>		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	CL-
H400742																	
1-9	SP 10 SURFACE	1	1			✓				✓			3-10-14	130	✓	✓	✓
2-10	@ 1	1	1			✓				✓			3-10-14	145	✓	✓	✓
3-11	@ 2	1	1			✓				✓			3-10-14	205	✓	✓	✓
4-12	@ 3	1	1			✓				✓			3-10-14	225	✓	✓	✓

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>5-11-14</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>		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 checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JH</i>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

#54

July 10, 2014

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

RE: FALCON FED #1

Enclosed are the results of analyses for samples received by the laboratory on 07/03/14 15:04.

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: 07/03/2014  
 Reported: 07/10/2014  
 Project Name: FALCON FED #1  
 Project Number: NONE GIVEN  
 Project Location: DELAWARE BASIN

 Sampling Date: 07/03/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SIDEWALL 1 (H402035-01)**

BTEX 8260B		mg/kg		Analyzed By: ms/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2014	ND	0.397	99.2	0.400	13.6		
Toluene*	<0.050	0.050	07/09/2014	ND	0.338	84.5	0.400	19.1		
Ethylbenzene*	<0.050	0.050	07/09/2014	ND	0.329	82.2	0.400	14.0		
Total Xylenes*	<0.150	0.150	07/09/2014	ND	0.957	79.8	1.20	18.8		
Total BTEX	<0.300	0.300	07/09/2014	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 96.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 88.5 % 65.7-141

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	07/07/2014	ND	177	88.4	200	0.325		
DRO >C10-C28	<10.0	10.0	07/07/2014	ND	192	95.8	200	0.241		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	DELAWARE BASIN		

**Sample ID: SIDEWALL 2 (H402035-02)**

BTEX 8260B		mg/kg		Analyzed By: ms/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2014	ND	0.397	99.2	0.400	13.6		
Toluene*	<0.050	0.050	07/09/2014	ND	0.338	84.5	0.400	19.1		
Ethylbenzene*	<0.050	0.050	07/09/2014	ND	0.329	82.2	0.400	14.0		
Total Xylenes*	<0.150	0.150	07/09/2014	ND	0.957	79.8	1.20	18.8		
Total BTEX	<0.300	0.300	07/09/2014	ND						

Surrogate: Dibromofluoromethane      99.9 %      61.3-142

Surrogate: Toluene-d8      99.0 %      71.3-129

Surrogate: 4-Bromofluorobenzene      95.3 %      65.7-141

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	07/07/2014	ND	177	88.4	200	0.325		
DRO >C10-C28	<10.0	10.0	07/07/2014	ND	192	95.8	200	0.241		

Surrogate: 1-Chlorooctane      124 %      65.2-140

Surrogate: 1-Chlorooctadecane      137 %      63.6-154

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:	07/03/2014	Sampling Date:	07/03/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	DELAWARE BASIN		

**Sample ID: SIDEWALL 3 (H402035-03)**

BTEX 8260B		mg/kg		Analyzed By: ms/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2014	ND	0.397	99.2	0.400	13.6		
Toluene*	<0.050	0.050	07/09/2014	ND	0.338	84.5	0.400	19.1		
Ethylbenzene*	<0.050	0.050	07/09/2014	ND	0.329	82.2	0.400	14.0		
Total Xylenes*	<0.150	0.150	07/09/2014	ND	0.957	79.8	1.20	18.8		
Total BTEX	<0.300	0.300	07/09/2014	ND						

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 93.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 91.6 % 65.7-141

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	07/07/2014	ND	177	88.4	200	0.325		
DRO >C10-C28	<10.0	10.0	07/07/2014	ND	192	95.8	200	0.241		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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\*=Accredited Analyte

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Caley 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: 07/03/2014  
 Reported: 07/10/2014  
 Project Name: FALCON FED #1  
 Project Number: NONE GIVEN  
 Project Location: DELAWARE BASIN

 Sampling Date: 07/03/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SIDEWALL 4 (H402035-04)**

BTEX 8260B		mg/kg		Analyzed By: ms/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/09/2014	ND	0.397	99.2	0.400	13.6		
Toluene*	<0.050	0.050	07/09/2014	ND	0.338	84.5	0.400	19.1		
Ethylbenzene*	<0.050	0.050	07/09/2014	ND	0.329	82.2	0.400	14.0		
Total Xylenes*	<0.150	0.150	07/09/2014	ND	0.957	79.8	1.20	18.8		
Total BTEX	<0.300	0.300	07/09/2014	ND						

Surrogate: Dibromofluoromethane 105 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.0 % 65.7-141

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	07/07/2014	ND	177	88.4	200	0.325		
DRO >C10-C28	<10.0	10.0	07/07/2014	ND	192	95.8	200	0.241		

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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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

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: <i>OKY</i>													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>OKY</i>		City:													
Project Name: <i>FALCON FED #1</i>		State: Zip:													
Project Location: <i>DELAVADE BASIN</i>		Phone #:													
Sampler Name: <i>ROGER HERNANDEZ</i>		Fax #:													

FOR LAB USE ONLY		GRAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV		SAMPLING		DATE	TIME	TPH	BTEX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER				
<i>H402035</i>																
<i>1</i>	<i>SIDEWALL 1</i>	<i>G</i>	<i>1</i>			<i>✓</i>			<i>✓</i>			<i>7-3-14</i>	<i>10:30</i>	<i>✓</i>	<i>✓</i>	
<i>2</i>	<i>SIDEWALL 2</i>	<i>G</i>	<i>1</i>			<i>✓</i>			<i>✓</i>			<i>7-3-14</i>	<i>10:35</i>	<i>✓</i>	<i>✓</i>	
<i>3</i>	<i>SIDEWALL 3</i>	<i>G</i>	<i>1</i>			<i>✓</i>			<i>✓</i>			<i>7-3-14</i>	<i>10:40</i>	<i>✓</i>	<i>✓</i>	
<i>4</i>	<i>SIDEWALL 4</i>	<i>G</i>	<i>1</i>			<i>✓</i>			<i>✓</i>			<i>7-3-14</i>	<i>10:45</i>	<i>✓</i>	<i>✓</i>	

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>7-3-14</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>3:04</i>		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: (Initials)		
Sampler - UPS - Bus - Other: <i>5.9c #54</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>KS</i>		

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

## Jennifer Gilkey

---

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Monday, April 07, 2014 1:12 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Falcon Federal #1-Remediation Plan

Cliff

Per our conversation of April 2, 2014 and review of the below email and attachment, the remediation plan is approved for the OXY Falcon Federal #1. Thank you.

Geoffrey Leking  
Environmental Specialist  
NMOCD-Hobbs  
1625 N. French Drive  
Hobbs, NM 88240  
Office: (575) 393-6161 Ext. 113  
Cell: (575) 399-2990  
email: [geoffreyr.leting@state.nm.us](mailto:geoffreyr.leting@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, April 05, 2014 7:45 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Falcon Federal #1-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on April 2, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the entire leak area that is depicted on the attached site diagram. The site will then be backfilled with clean soil.

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)

\*\*\*\*\*

## Jennifer Gilkey

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Monday, April 07, 2014 2:48 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY-Falcon Federal #1-Remediation Plan

This plan is approved.

### Stips:

1. Take sidewall samples to be sure that BTEX and TPH has been removed (TPH < 1000).
2. Place a berm along the well pad and pit area to prevent contaminants from leaving well pad on to reclaimed pit area.
3. Replace with caliche and compact.
4. If not complete within 30 days, send me notice as to when work will be complete.

If you have any questions please let me know.

Thanks,

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Sat, Apr 5, 2014 at 7:44 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Oxy will excavate to a depth of 1 foot in the entire spill area. The area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President

## Jennifer Gilkey

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Wednesday, April 09, 2014 9:40 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY-Falcon Federal #1-Remediation Plan

Contact me prior to (48 hr notice) taking samples for witness.  
The samples will need to be confirmed prior to backfill.

Thanks,

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 7, 2014 at 2:48 PM, Van Curen, Jennifer <jvancure@blm.gov> wrote:  
This plan is approved.

Stips:

1. Take sidewall samples to be sure that BTEX and TPH has been removed (TPH < 1000).
2. Place a berm along the well pad and pit area to prevent contaminants from leaving well pad on to reclaimed pit area.
3. Replace with caliche and compact.
4. If not complete within 30 days, send me notice as to when work will be complete.

If you have any questions please let me know.

Thanks,

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220

OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Sat, Apr 5, 2014 at 7:44 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Oxy will excavate to a depth of 1 foot in the entire spill area. The area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

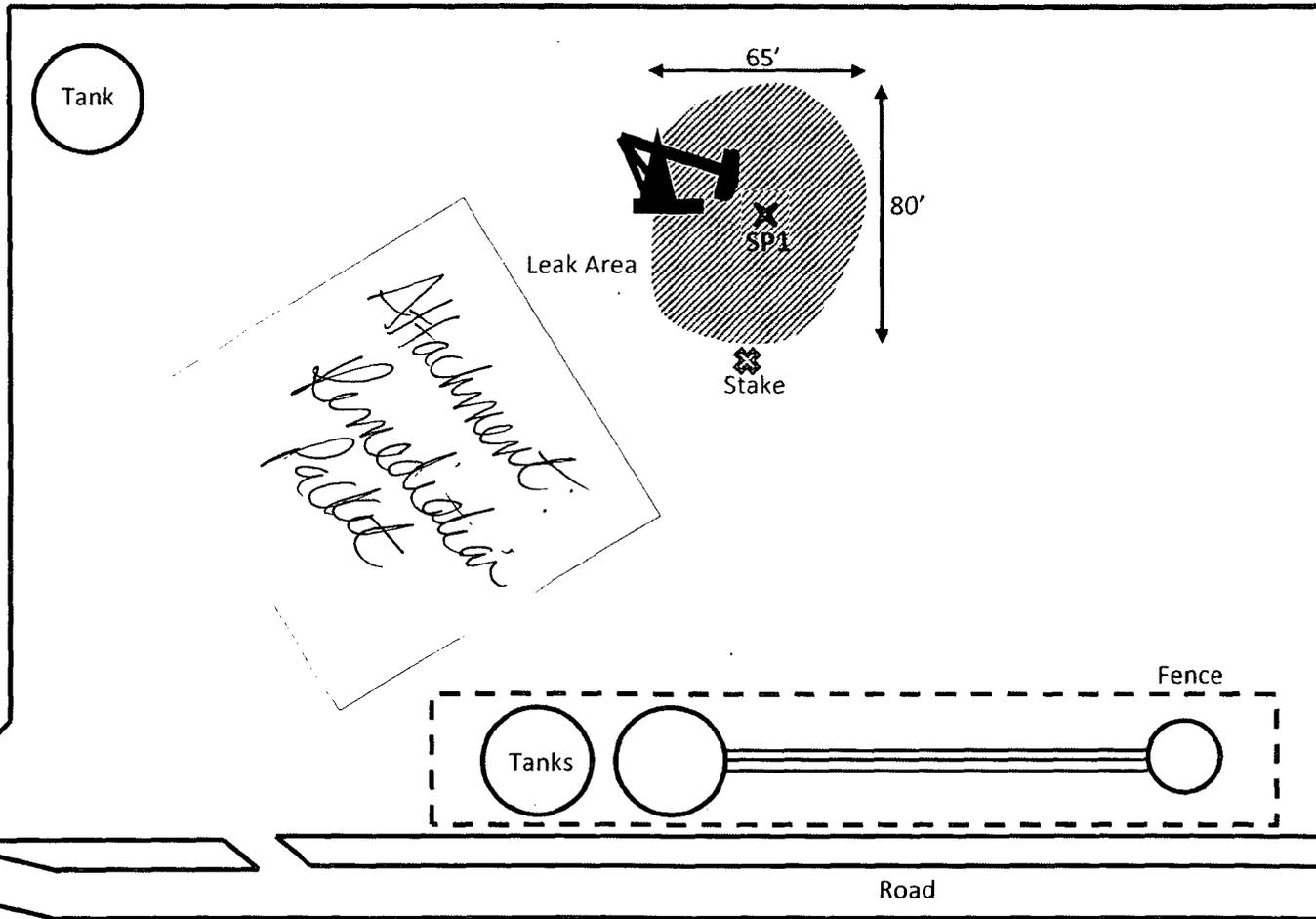
Thanks, Cliff

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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\*\*\*\*\*



Oxy  
Falcon Federal #1



U/L I, Section 1, T24S, R34E  
1980' FSL, 660' FEL  
Lea County, NM  
N 32.24463° W 103.41726° at stake  
API# 30-025-32190

BBC International, Inc.	
Oxy Falcon Federal #1	
Date: 02/28/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

## Oxy Falcon Federal #1

County  
Lea

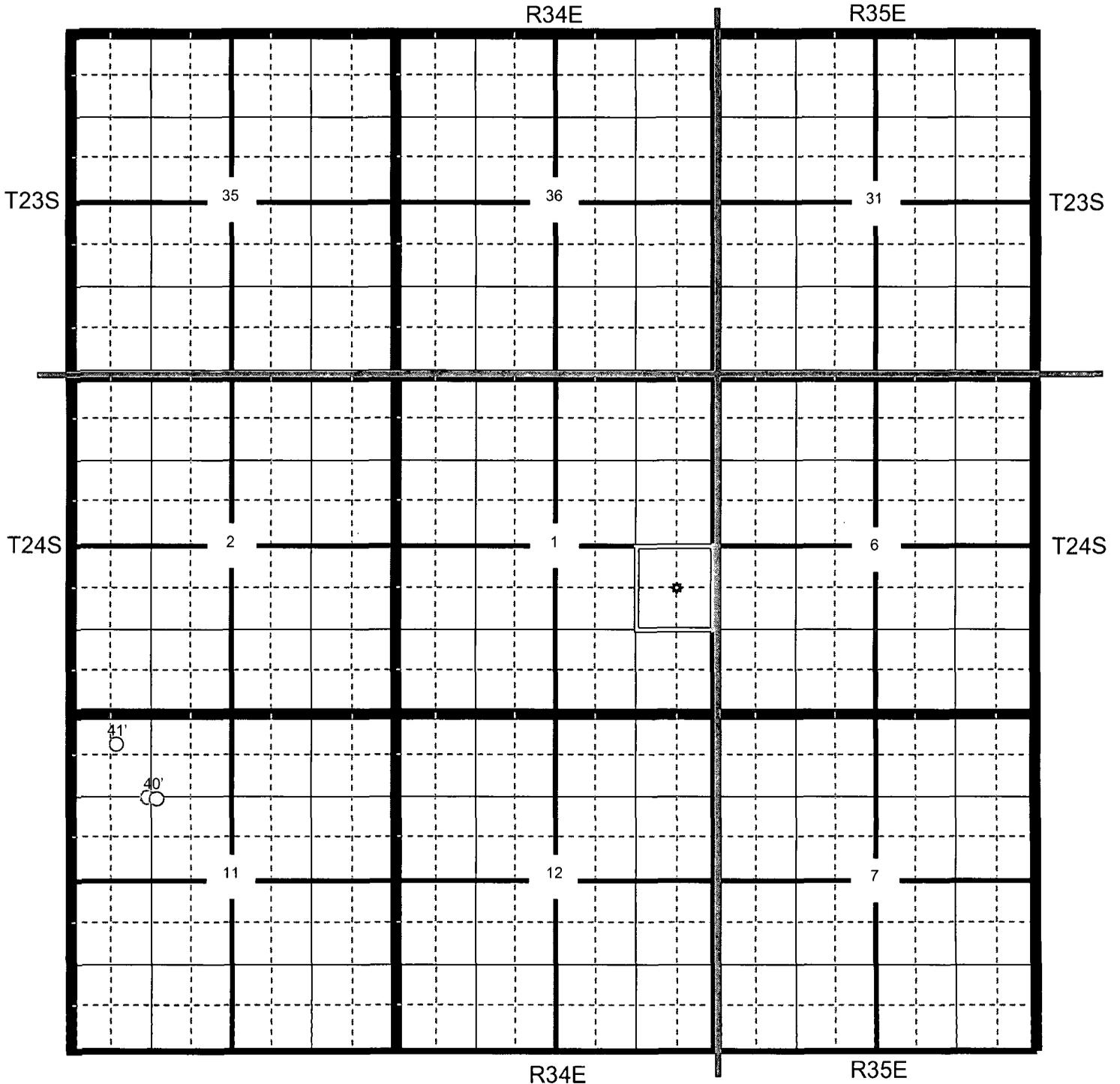
Unit Letter  
I

Section  
1

Township  
24S

Range  
34E

Trend Map 150'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

Oxy Falcon Federal #1

<b>County</b> Lea	<b>Unit Letter</b> I	<b>Section</b> 1	<b>Township</b> 24S	<b>Range</b> 34E
----------------------	-------------------------	---------------------	------------------------	---------------------

Trend Map 150'

1

2

NW/NW <b>NONE</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 I
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**  
**Falcon Federal #1**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	3/10/14	3/10/14	3/10/14	3/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>2.47</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>94.2</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>46.9</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>133</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>277</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>2560</b>	<b>432</b>	<b>256</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>4340</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>35500</b>	<b>319</b>	<b>12.1</b>	<10.0



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

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March 14, 2014

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

RE: FALCON FED #1

Enclosed are the results of analyses for samples received by the laboratory on 03/11/14 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ SURFACE (H400742-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.47</b>	2.00	03/13/2014	ND	2.34	117	2.00	1.68		
<b>Toluene*</b>	<b>94.2</b>	2.00	03/13/2014	ND	2.21	110	2.00	1.28		
<b>Ethylbenzene*</b>	<b>46.9</b>	2.00	03/13/2014	ND	2.17	108	2.00	1.30		
<b>Total Xylenes*</b>	<b>133</b>	6.00	03/13/2014	ND	6.22	104	6.00	1.17		
<b>Total BTEX</b>	<b>277</b>	12.0	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2560</b>	16.0	03/13/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>4340</b>	50.0	03/13/2014	ND	199	99.6	200	8.31			
<b>DRO &gt;C10-C28</b>	<b>35500</b>	50.0	03/13/2014	ND	194	96.9	200	5.88			

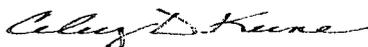
Surrogate: 1-Chlorooctane 259 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.8 % 63.6-154

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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H400742-02)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 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	432	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	319	10.0	03/13/2014	ND	194	96.9	200	5.88		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 145 % 63.6-154

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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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H400742-03)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 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	256	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	12.1	10.0	03/13/2014	ND	194	96.9	200	5.88		

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 63.6-154

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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:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	FALCON FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H400742-04)**

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	03/13/2014	ND	2.34	117	2.00	1.68		
Toluene*	<0.050	0.050	03/13/2014	ND	2.21	110	2.00	1.28		
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	2.17	108	2.00	1.30		
Total Xylenes*	<0.150	0.150	03/13/2014	ND	6.22	104	6.00	1.17		
Total BTEX	<0.300	0.300	03/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	48.0	16.0	03/13/2014	ND	416	104	400	0.00		

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	03/13/2014	ND	199	99.6	200	8.31		
DRO >C10-C28	<10.0	10.0	03/13/2014	ND	194	96.9	200	5.88		

Surrogate: 1-Chlorooctane 97.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

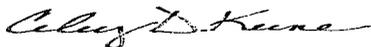
- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              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

1 of 1

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>OKY</i>		City:															
Project Name: <i>Falcon Fed # 1</i>		State: Zip:															
Project Location:		Phone #:															
Sampler Name: <i>ROGER HERNANDEZ</i>		Fax #:															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	CL-
H400742																	
1-9	SPT @ SURFACE	Q	1			✓				✓			3-10-14	130	✓	✓	✓
2-10	@ 1	Q	1			✓				✓			3-10-14	145	✓	✓	✓
3-11	@ 2	Q	1			✓				✓			3-10-14	205	✓	✓	✓
4-12	@ 3	Q	1			✓				✓			3-10-14	225	✓	✓	✓

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>5-11-14</i>	Time: <i>4:45</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Time:	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 <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	Checked By: <i>JH</i>	REMARKS:		

† 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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Falcon Federal #1	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-025-32190

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	1	24S	34E	1980	South	660	East	Lea County, NM

Latitude N 32.24° Longitude W 103.42°

**NATURE OF RELEASE**

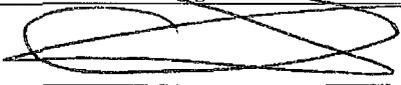
Type of Release	Oil and Produced water	Volume of Release	4 bbls oil, 6 bbls produced water	Volume Recovered	0 bbls
Source of Release	stuffing box packing blew off the well head	Date and Hour of Occurrence	02/24/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking, NMOCD and Jennifer VanCuren, BLM		
By Whom?	Kathy Purvis	Date and Hour	02/24/2014 @ 4:29 pm		
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.\*  
The stuffing box packing blew off the well head causing 4 bbls of oil and 6 bbls of produced water to leak onto the ground. No fluids were recovered and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 40' x 60' on location. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Chancey Summers	Approved by Environmental Specialist:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	2-26-14	Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary