

# Closure Report

## Site Description

Site Name:	James Buchanan CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L I, Section 33, T18S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.70208° W 104.17474 °

## Release Data

Date of Release:	11/10/2014
Type of Release:	Produced water
Source of Release:	Corrosion of 3" steel line
Volume of Release:	15 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak site to a depth of 2.5 feet by hand. Backfill the site with clean soil.	
Remediation Activities:	03/09/2016 to 03/22/2016	
Plan Sent to OCD:	05/02/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	05/29/2015	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 03/12/2015
Final C-141	Signed 03/28/2016
Site Diagram	November 2014
Groundwater Plot	150'
TOPO Maps	November 2014
Lab Summary	01/08/2015
Lab Analysis	01/08/2015
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.

03/28/2016

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	James Buchanan CTB	Facility Type	Battery
Surface Owner	State	Mineral Owner	API No. 30-015-29890

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	33	18S	28E					Eddy County, NM

Latitude N 32.70211° Longitude W 104.17430°

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Corrosion of 3" steel line	Date and Hour of Occurrence	11/10/2014	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?	Mike Bratcher, Heather Patterson-NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	11/10/2014 @ 12:26 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.\*

Corrosion of a 3" steel line leaked 15 bbls of oil onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 15' x 20' on location. Remediation will be completed in accordance with a plan approved by 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:	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  
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Energy Minerals and Natural Resources

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1220 South St. Francis Dr.  
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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	Casey Summers
Address	6 Desta Drive; Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	James Buchanan CTB	Facility Type	Battery

Surface Owner	State	Mineral Owner		API No.	30-015-29890
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	33	18S	28E					Eddy County, NM

Latitude N 32.70211° Longitude W 104.17430°

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Corrosion of 3" steel line	Date and Hour of Occurrence	11/10/2014	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?	Mike Bratcher, Heather Patterson-NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	11/10/2014 @ 12:26 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.\*  
Corrosion of a 3" steel line leaked 15 bbls of water on location. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 25' x 25' on location. Remediation was completed in accordance with a plan approved by Mike Bratcher of NMOCD via email on 05/29/2015.

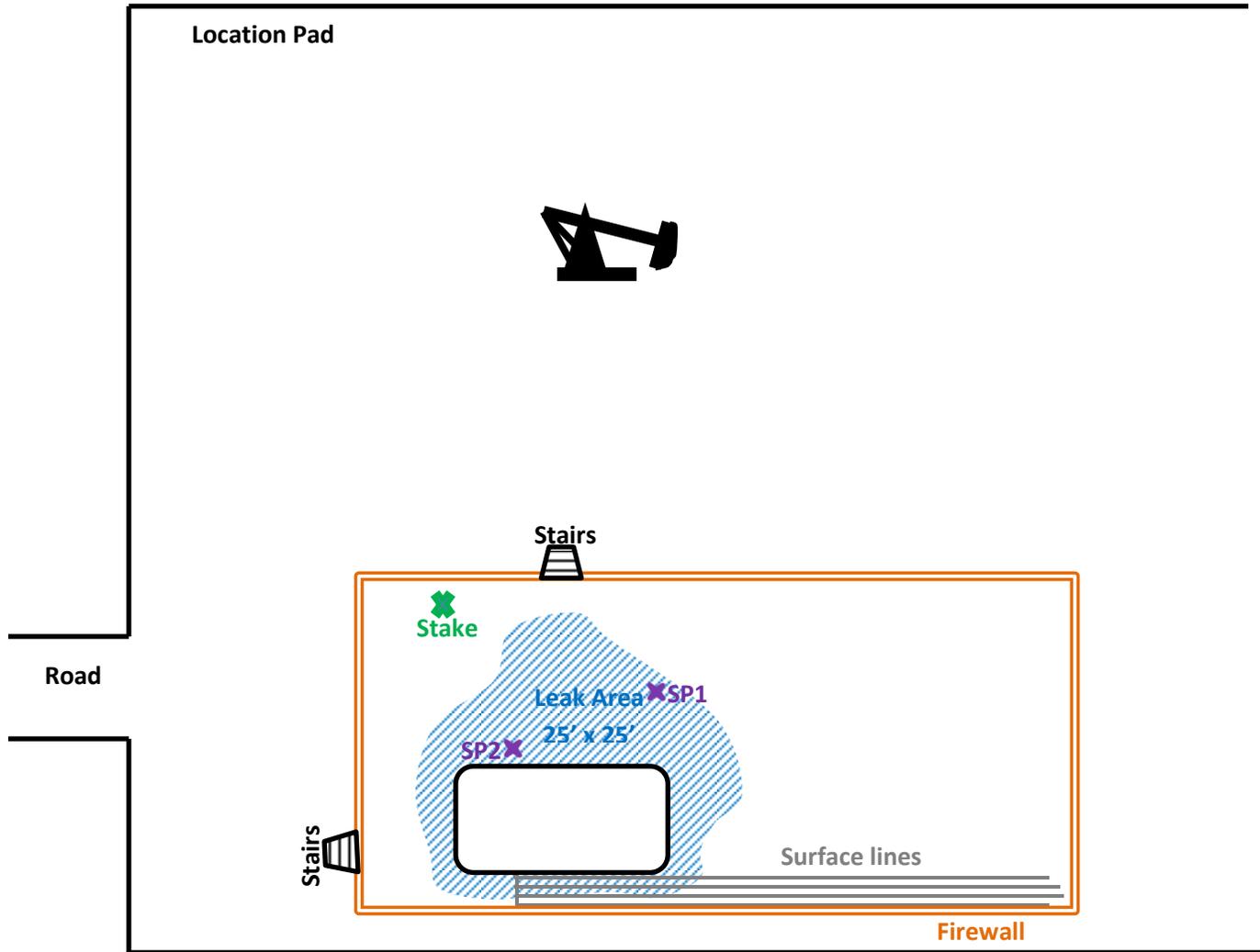
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by District Supervisor:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3-28-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary



Oxy  
James Buchanan CTB



U/L I, Section 33, T18S, R28E  
Eddy County, NM  
N 32.70208° W 104.17474° at stake  
API# 30-015-29890

<b>BBC International, Inc.</b>	
<b>Oxy</b> <b>James Buchanan CTB</b>	
Date: 11/17/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

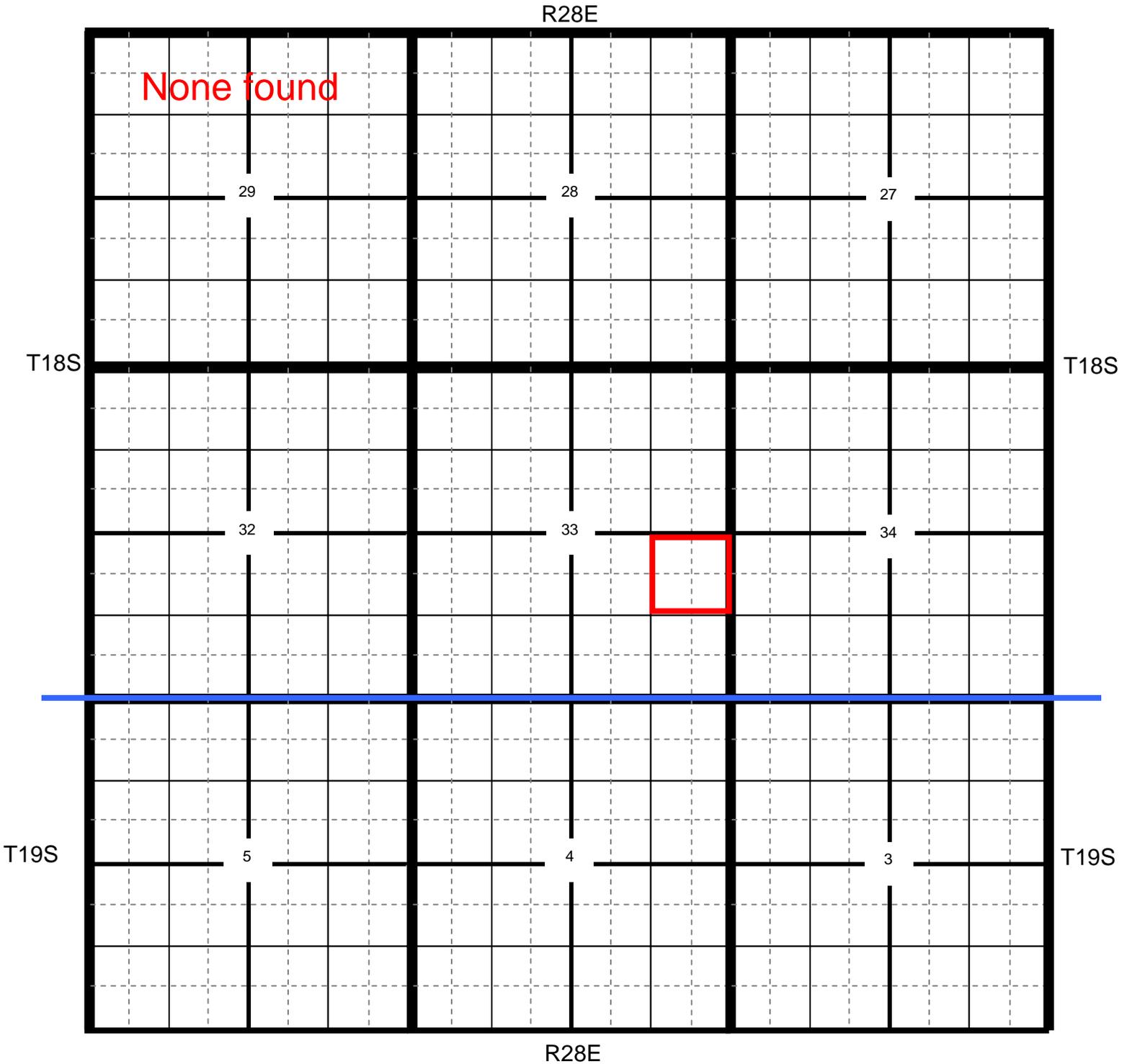


# Groundwater Plot

## Oxy James Buchanan CTB

County: Eddy      Unit Letter: I      Section: 33      Township: 18S      Range: 28E

Trend Map      150'



## Oxy James Buchanan CTB

County Eddy      Unit Letter I      Section 33      Township 18S      Range 28E

Trend Map 150'

1

2

NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	<b>NE/SE</b>
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

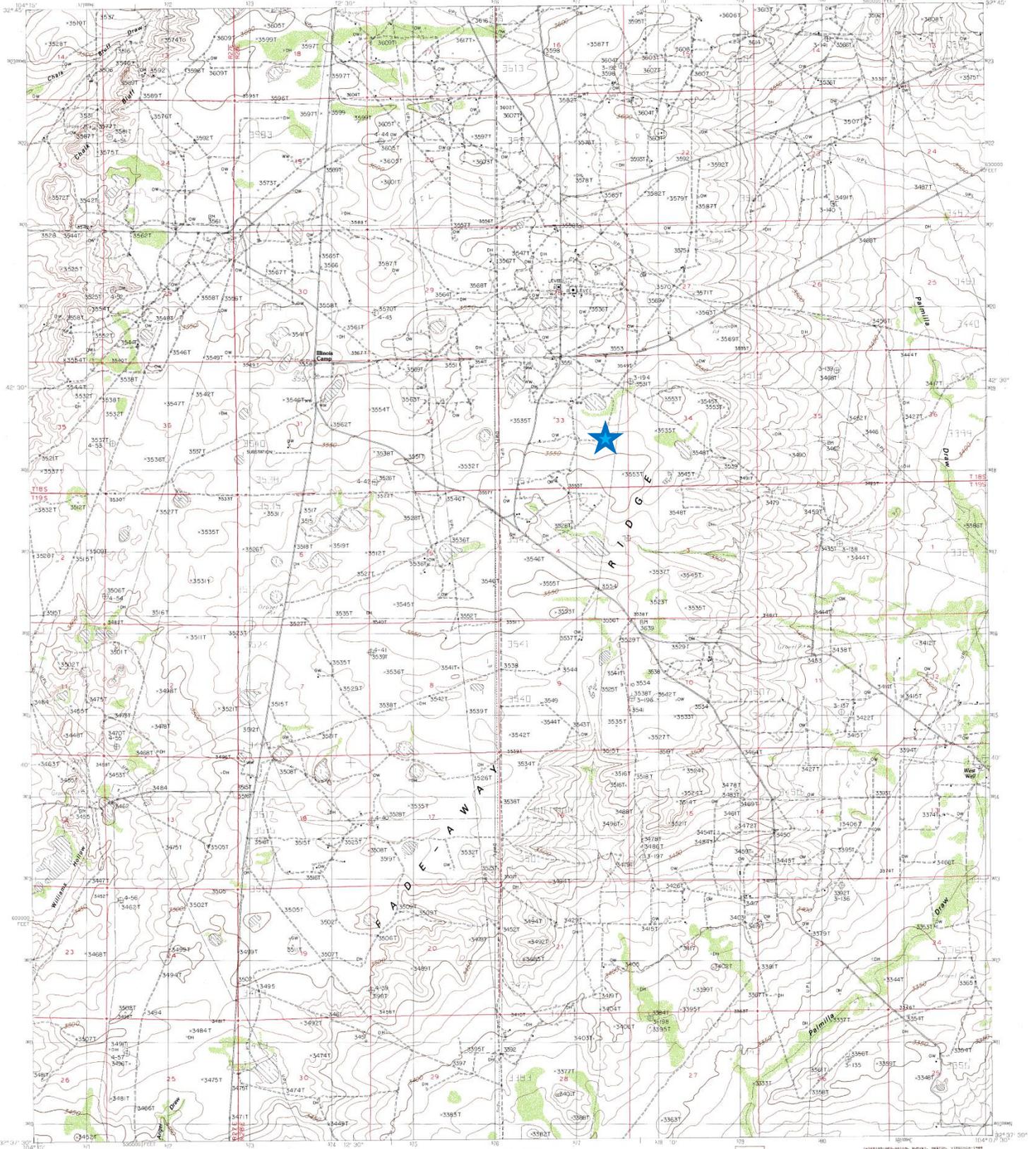
4

# Oxy

## James Buchanan CTB

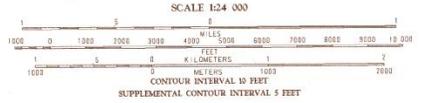
ILLINOIS CAMP QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROLLED BY AERIAL PHOTOGRAPHY TAKEN BY THE U.S. GEOLOGICAL SURVEY  
FIELD CHECKED BY THE U.S. GEOLOGICAL SURVEY  
GRID INFORMATION UNIVERSAL TRANSVERSE MERCATOR  
UTM GRID DESIGNATION  
MAGNETIC NORTH DECLINATION  
NATIONAL GEODETIC SURVEY DATUM OF 1983  
There may be private inholdings within the boundaries of any  
Federal and State Reservations shown on this map  
All marginal data and lettering generated and positioned by  
automated type placement procedures

PROVISIONAL MAP  
Produced from original  
manuscript drawings. Information  
shown as of date of  
field check.



1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

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

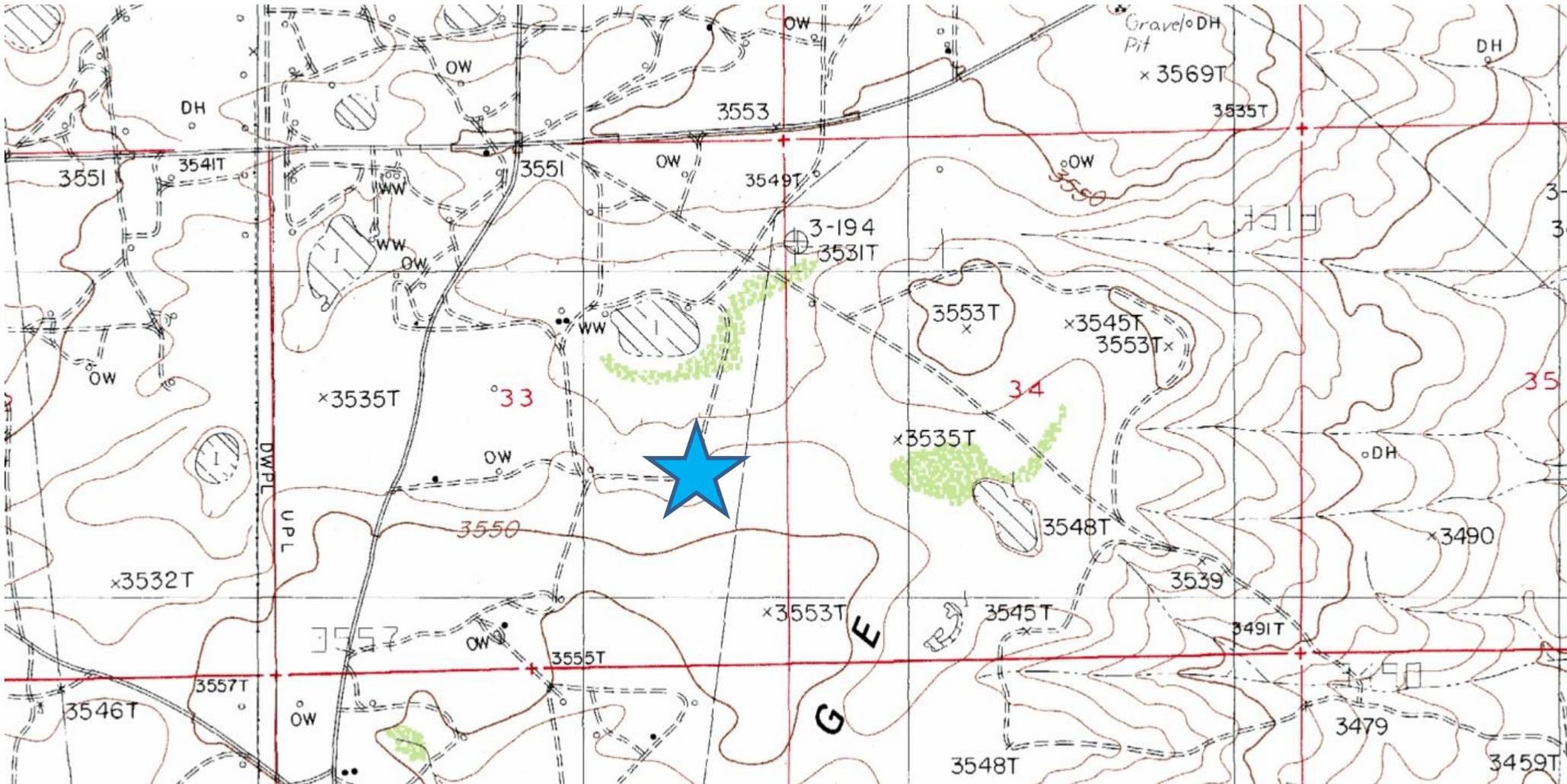
ILLINOIS CAMP, NEW MEXICO  
PROVISIONAL EDITION 1985

ADJOINING 7.5 QUADRANGLE NAMES  
320492-1F-024

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
OR RESTON, VIRGINIA 22092

# Oxy

## James Buchanan CTB



**Laboratory Analytical Results Summary  
James Buchanan CTB**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	1/8/15	1/8/15	1/8/15	1/8/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.424</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>5.95</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>6.38</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>224</b>	<b>1250</b>	<b>368</b>	<16.0
<b>GRO</b>	TPH 8015M		<b>365</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>3310</b>	<b>139</b>	<b>14.5</b>	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	1/8/15	1/8/15	1/8/15	1/8/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050	<0.050	<0.200
<b>Toluene</b>	BTEX 8021B		<0.200	<0.050	<0.050	<0.200
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.306</b>	<0.050	<0.050	<0.200
<b>Total Xylenes</b>	BTEX 8021B		<b>4.88</b>	<0.150	<0.150	<0.600
<b>Total BTEX</b>	BTEX 8021B		<b>5.19</b>	<0.300	<0.300	<1.20
<b>Chloride</b>	SM4500Cl-B		<b>256</b>	<b>1420</b>	<b>240</b>	<16.0
<b>GRO</b>	TPH 8015M		<b>348</b>	<b>12.1</b>	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>3130</b>	<b>301</b>	<b>45.1</b>	<10.0



January 14, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: JAMES BUCHANAN

Enclosed are the results of analyses for samples received by the laboratory on 01/09/15 15:25.

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".

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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 1' (H500078-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/13/2015	ND	1.74	86.8	2.00	2.77	
Toluene*	<0.200	0.200	01/13/2015	ND	1.70	84.9	2.00	2.67	
<b>Ethylbenzene*</b>	<b>0.424</b>	0.200	01/13/2015	ND	1.64	82.0	2.00	2.15	
<b>Total Xylenes*</b>	<b>5.95</b>	0.600	01/13/2015	ND	4.93	82.1	6.00	2.57	
<b>Total BTEX</b>	<b>6.38</b>	1.20	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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>224</b>	16.0	01/13/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>365</b>	10.0	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>3310</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 140 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 52.1-176

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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 2' (H500078-02)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.050	0.050	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.050	0.050	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<0.300	0.300	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

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>1250</b>	16.0	01/13/2015	ND	400	100	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	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>139</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 90.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 3' (H500078-03)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.050	0.050	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.050	0.050	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<0.300	0.300	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 61-154

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>368</b>	16.0	01/13/2015	ND	400	100	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	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>14.5</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 86.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.6 % 52.1-176

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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 4' (H500078-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.050	0.050	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.050	0.050	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<0.300	0.300	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2015	ND	400	100	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	01/13/2015	ND	198	98.8	200	3.28	
DRO >C10-C28	<10.0	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 89.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.6 % 52.1-176

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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 1' (H500078-05)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.200	0.200	01/13/2015	ND	1.69	84.7	2.00	5.60	
<b>Ethylbenzene*</b>	<b>0.306</b>	0.200	01/13/2015	ND	1.64	82.1	2.00	6.18	
<b>Total Xylenes*</b>	<b>4.88</b>	0.600	01/13/2015	ND	4.96	82.7	6.00	6.13	
<b>Total BTEX</b>	<b>5.19</b>	1.20	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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>256</b>	16.0	01/13/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>348</b>	10.0	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>3130</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 138 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 2' (H500078-06)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.050	0.050	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.050	0.050	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<0.300	0.300	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 61-154

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>1420</b>	16.0	01/13/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>12.1</b>	10.0	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>301</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.9 % 52.1-176

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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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 3' (H500078-07)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.050	0.050	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.050	0.050	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<0.300	0.300	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 61-154

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>240</b>	16.0	01/13/2015	ND	400	100	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	01/13/2015	ND	198	98.8	200	3.28	
<b>DRO &gt;C10-C28</b>	<b>45.1</b>	10.0	01/13/2015	ND	208	104	200	2.79	

Surrogate: 1-Chlorooctane 91.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.7 % 52.1-176

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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:	01/09/2015	Sampling Date:	01/08/2015
Reported:	01/14/2015	Sampling Type:	Soil
Project Name:	JAMES BUCHANAN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 4' (H500078-08)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/13/2015	ND	1.73	86.5	2.00	5.88	
Toluene*	<0.200	0.200	01/13/2015	ND	1.69	84.7	2.00	5.60	
Ethylbenzene*	<0.200	0.200	01/13/2015	ND	1.64	82.1	2.00	6.18	
Total Xylenes*	<0.600	0.600	01/13/2015	ND	4.96	82.7	6.00	6.13	
Total BTEX	<1.20	1.20	01/13/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2015	ND	400	100	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	01/12/2015	ND	209	105	200	3.44	
DRO >C10-C28	<10.0	10.0	01/12/2015	ND	205	102	200	2.49	

Surrogate: 1-Chlorooctane 75.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 76.1 % 52.1-176

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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



**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.** P.O. #: **BILL TO** ANALYSIS REQUEST

Project Manager: **Cliff Brunson** Company: \_\_\_\_\_

Address: **P.O. Box 805** Attn: \_\_\_\_\_

City: **Hobbs** State: **NM** Zip: **88241**

Phone #: **575-397-6388** Fax #: **575-397-0397** Address: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Owner: **ATV** City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Project Name: **James Buchanan** Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project Location: **Carlspool** Project Name: **Pine Run**

Sampler Name: **Pine Run**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV	SAMPLING	DATE	TIME	TPH	BTEX	PCL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
H500078	1		1									1/8/15	1030	✓	✓	✓	
	2		1									1/8/15	1040	✓	✓	✓	
	3		1									1/8/15	1050	✓	✓	✓	
	4		1									1/8/15	1120	✓	✓	✓	
	5		1									1/8/15	1155	✓	✓	✓	
	6		1									1/8/15	1230	✓	✓	✓	
	7		1									1/8/15	1245	✓	✓	✓	
	8		1									1/8/15	1300	✓	✓	✓	

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Relinquished By: \_\_\_\_\_ Date: **1/9/15** Received By: **Scott Menden**

Relinquished By: \_\_\_\_\_ Date: **3:25** Received By: \_\_\_\_\_

Time: \_\_\_\_\_

Delivered By: (Circle One) **UPS** Sample Condition:  Cool  Intact  Yes  No

Sampler - UPS - Bus - Other: **-10.60** CHECKED BY: **ATV**

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_

REMARKS: **#54**

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Friday, May 29, 2015 3:08 PM  
**To:** Cliff Brunson  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY - James Buchanan CTB - Remediation Plan

RE: OXY USA \* James Buchanan 33 St 1 \* 30-015-29890 \* I-33-18s-28e  
NMOCD Tracking Number: 2RP-2596 \* Date of release: 11/10/14

Cliff,

Your proposal for remediation of the above referenced release is approved.

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 Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, May 02, 2015 7:42 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - James Buchanan CTB - Remediation Plan

Mike,

This e-mail is to request the OCD'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. If you will review the diagram on the attachment, it depicts the remediation plan and the area and depth of the excavations. After the soil is excavated, the site will be backfilled with clean soil.

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

Thanks, Cliff

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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