

# Closure Report

APR 03 2014

NMOCD ARTESIA

Site Description	
Site Name:	Roo 22 State #13
Company:	Oxy Permian Ltd.
Legal Description:	U/L C, Section 22, T17S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.82497° W 104.16562°

Release Data	
Date of Release:	12/28/2013
Type of Release:	Oil and Produced water
Source of Release:	Valve open, handle off, bull plug missing
Volume of Release:	7 bbls oil, 33 bbls produced water
Volume Recovered:	Unknown

Remediation Specifications	
Remediation Parameters:	Excavate to a depth of 1 foot across the entire leak site. Then, backfill the site with clean soil.
Remediation Activities:	03/17/2014 to 03/26/2014

Plan Sent to OCD:	02/20/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	Verbal	Verbal approval from Mike Bratcher
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation	
Initial C-141	Signed 01/09/2014
Final C-141	Signed 03/31/2014
Site Diagram	January 2014
Groundwater Plot	50'
TOPO Maps	January 2014
Lab Summary	01/24/2014
Lab Analysis	01/24/2014
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.	04/01/2014

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised October 10, 2003

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

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Roo 22 State #13	Facility Type	Well Location
Surface Owner	State	Mineral Owner	API No. 30-015-40535

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	28E	787	North	2023	West	Eddy County, NM

Latitude N 32.81631° Longitude W 104.17°

#### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	7 bbls oil, 33 bbls produced water	Volume Recovered	Unknown
Source of Release	Valve open, handle off, bull plug missing	Date and Hour of Occurrence	12/28/2013	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-NMOCD		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	12/30/2013 @ 12:45 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.\*  
For an unknown reason, a valve was left open, a handle was off, and a bull plug was missing at the well head which caused 7 bbls of oil and 33 bbls of produced water to leak onto the ground. All free-standing fluids were recovered via vacuum truck and the well head parts were repaired and/or replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 10' 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: 1/9/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary

District I  
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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	Roo 22 State #13	Facility Type	Well Location
Surface Owner	State	Mineral Owner	API No. 30-015-40535

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	28E	787	North	2023	West	Eddy County, NM

Latitude N 32.81631° Longitude W 104.17°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	7 bbls oil, 33 bbls produced water	Volume Recovered	Unknown
Source of Release	Valve open, handle off, bull plug missing	Date and Hour of Occurrence	12/28/2013	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-NMOCD		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	12/30/2013 @ 12:45 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.\*

For an unknown reason, a valve was left open, a handle was off, and a bull plug was missing at the well head which caused 7 bbls of oil and 33 bbls of produced water to leak onto the ground. All free-standing fluids were recovered via vacuum truck and the well head parts were repaired and/or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 10' x 20' on location. Remediation was completed in accordance with a remediation plan verbally approved by Mike Bratcher of NMOCD.

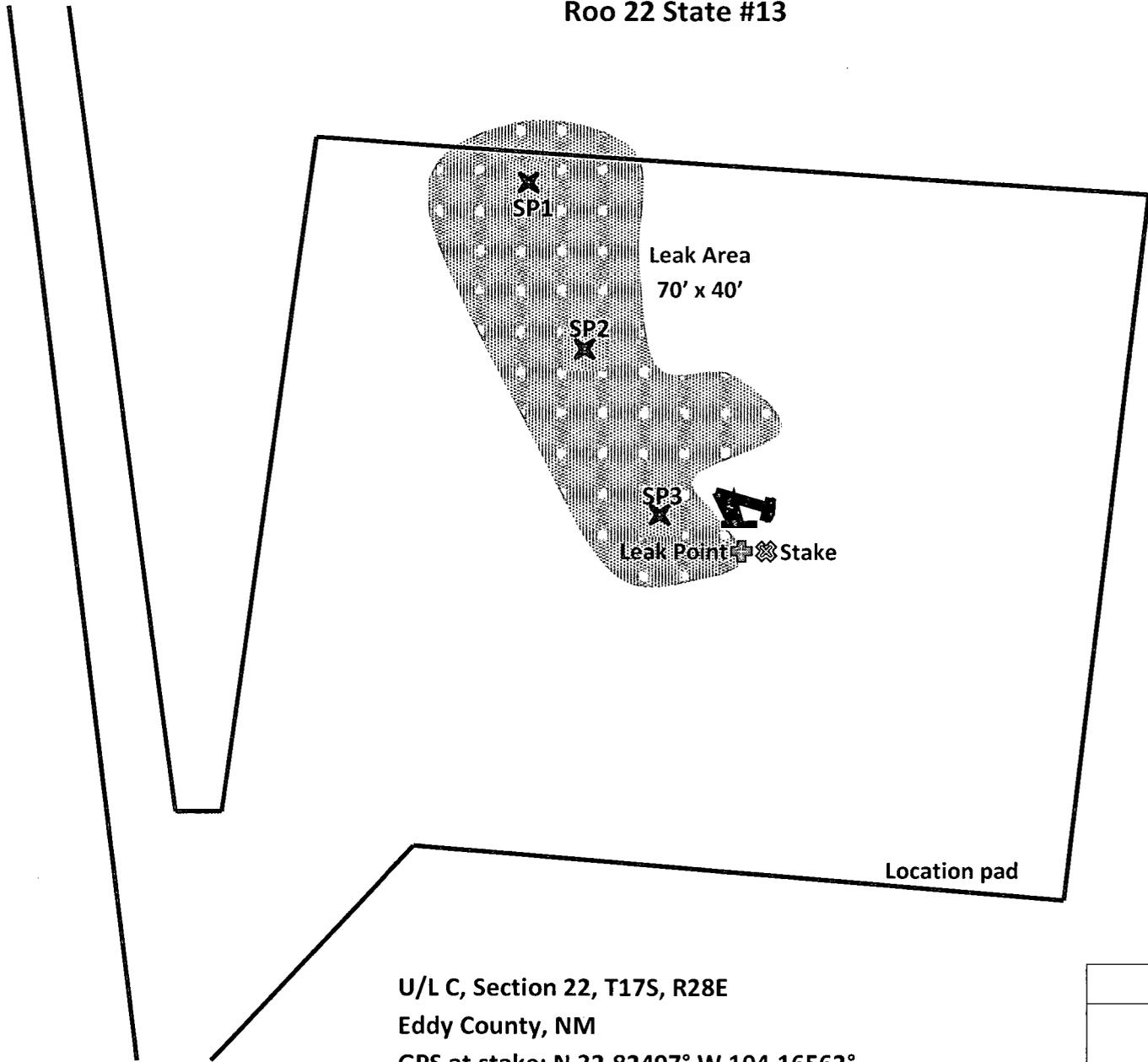
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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:	<b>OIL CONSERVATION DIVISION</b>		
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: 3/31/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary



Oxy  
Roo 22 State #13



U/L C, Section 22, T17S, R28E  
Eddy County, NM  
GPS at stake: N 32.82497° W 104.16562°  
API# 30-015-40535

BBC International, Inc.	
Oxy	
Roo 22 State #13	
Date: 01/23/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

## Oxy Roo 22 State #13

County  
Eddy

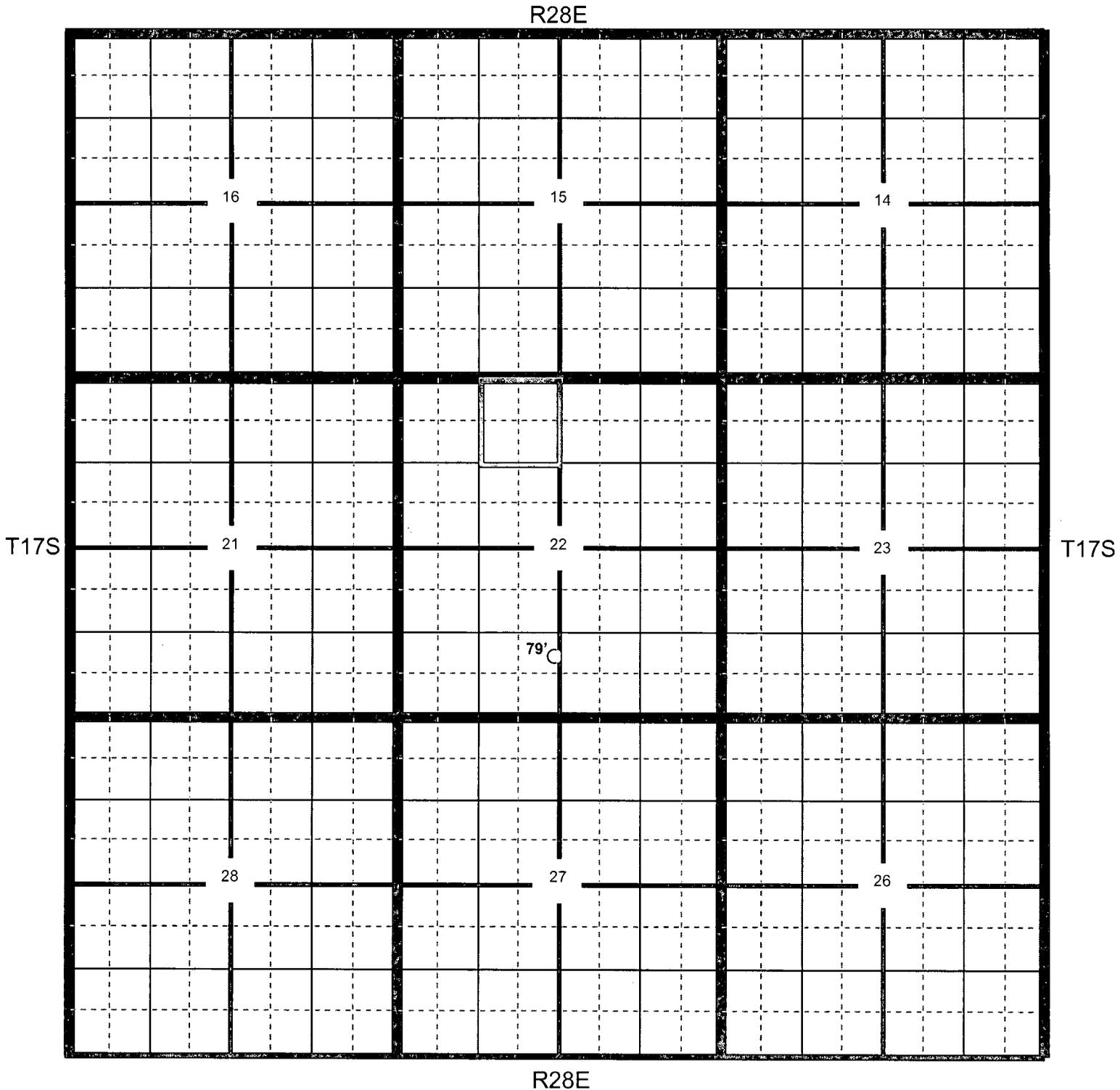
Unit Letter  
C

Section  
22

Township  
17S

Range  
28E

Trend Map 50'



⊛ Location

○ OCD

○ USGS

○ SEO

⊛ All Databases

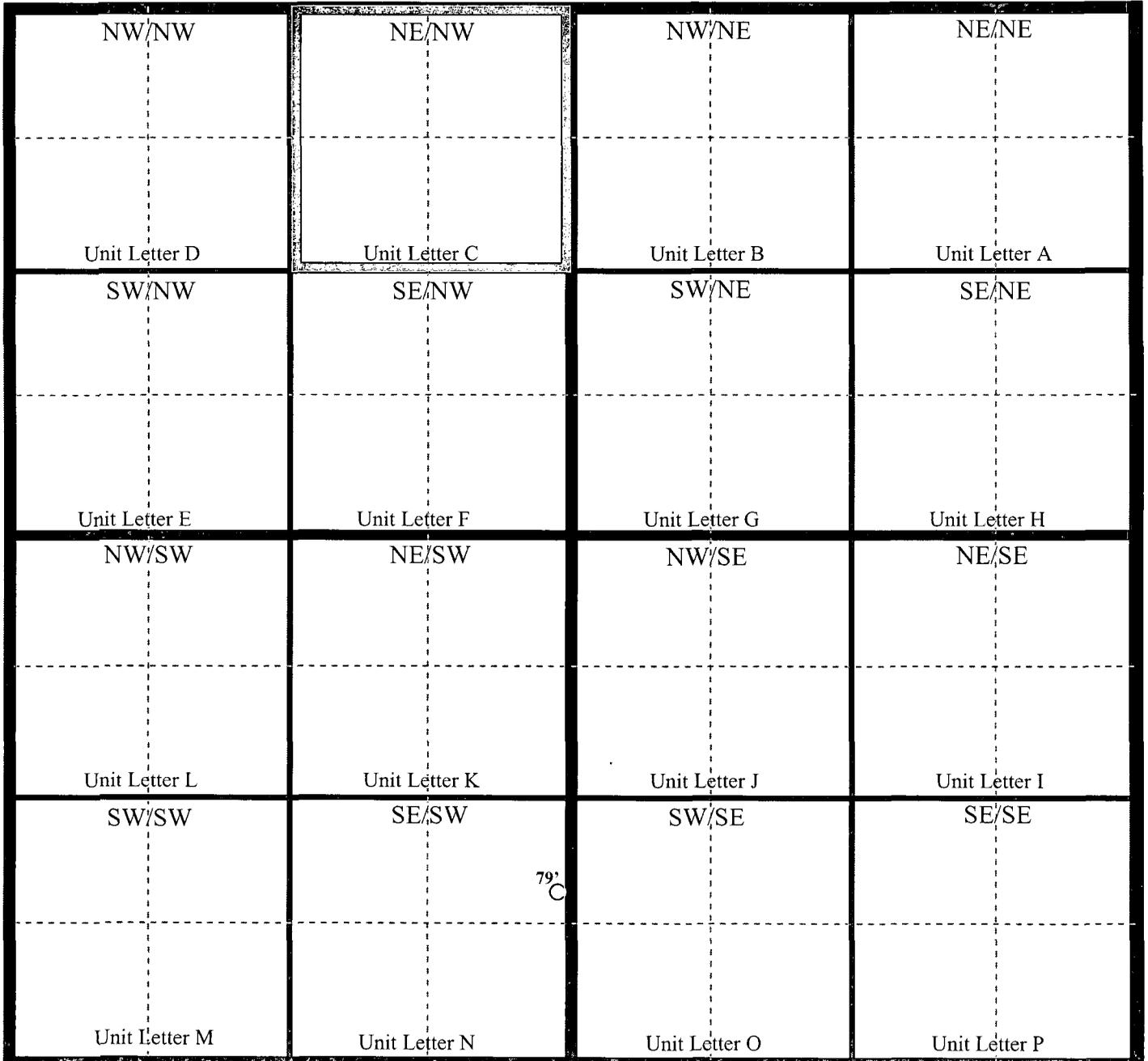
Oxy Roo 22 State #13

County Eddy      Unit Letter C      Section 22      Township 17S      Range 28E

Trend Map 50'

1

2



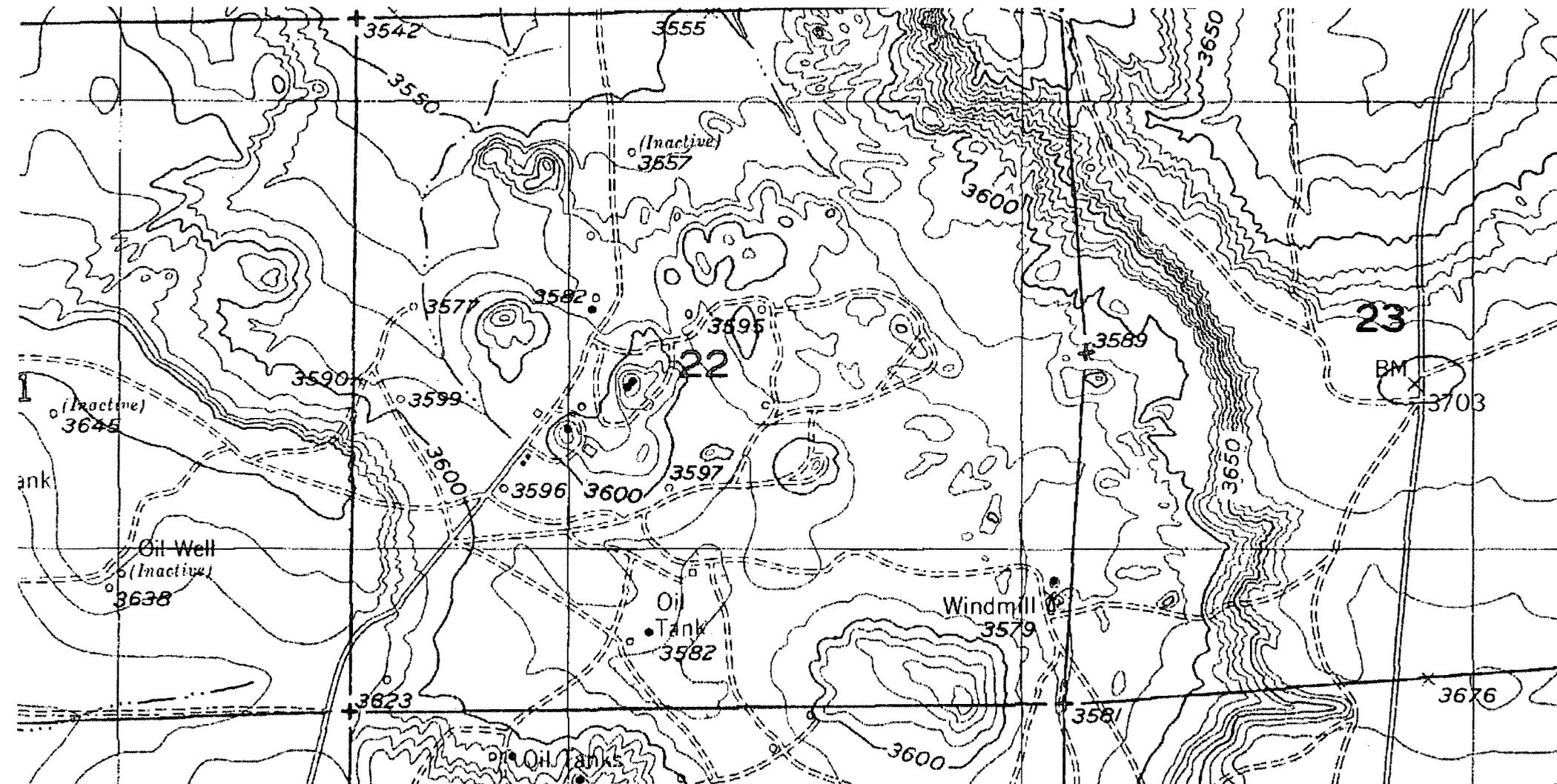
3

4



Oxy

Roo 22 State #13



**Laboratory Analytical Results Summary**  
**Ro 22 State #13**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<b>1280</b>	<b>608</b>	<b>32</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<b>544</b>	<b>160</b>	<b>64</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>68.6</b>	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		<b>384</b>	<b>128</b>	<b>32</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

January 31, 2014

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

RE: ROO 22 STATE 13

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 9:00.

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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 1' (H400250-01)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	1280	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 2' (H400250-02)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	608	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 3' (H400250-03)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	01/31/2014	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	01/30/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	198	99.0	200	2.28		

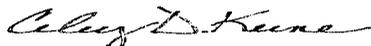
Surrogate: 1-Chlorooctane 72.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.5 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 1' (H400250-04)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	<b>544</b>	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
<b>DRO &gt;C10-C28</b>	<b>68.6</b>	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 2 @ 2' (H400250-05)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 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	160	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\* = 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 2 @ 3' (H400250-06)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 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	64.0	16.0	01/31/2014	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	01/30/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 72.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.7 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 1' (H400250-07)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 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	384	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 2' (H400250-08)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	128	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

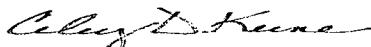
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.3 % 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 3' (H400250-09)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 67.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 68.0 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Caley 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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\*=Accredited Analyte

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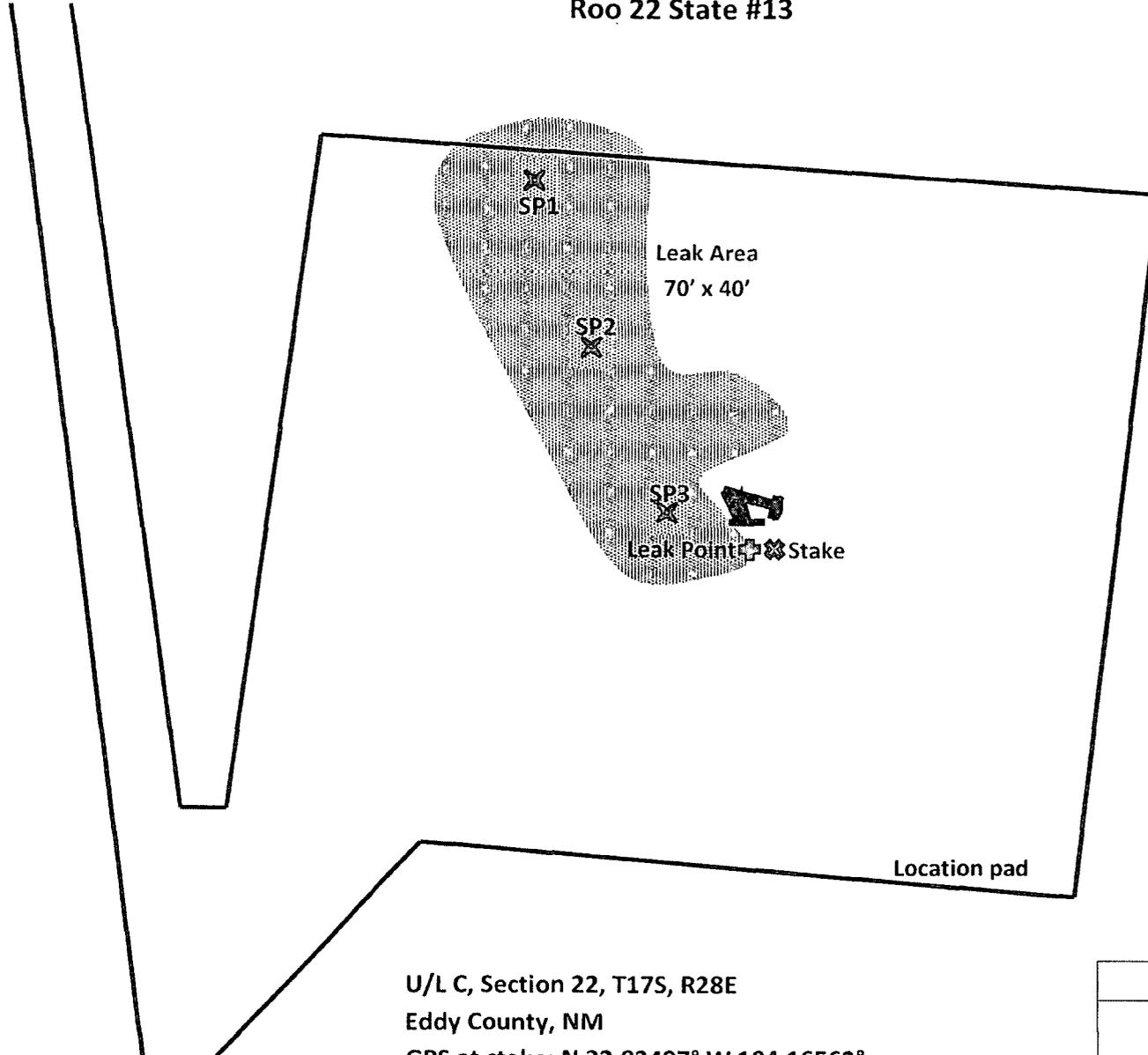
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Celestine D. Keene, Lab Director/Quality Manager





Oxy  
Roo 22 State #13



U/L C, Section 22, T17S, R28E  
Eddy County, NM  
GPS at stake: N 32.82497° W 104.16562°  
API# 30-015-40535

BBC International, Inc.	
Oxy Roo 22 State #13	
Date: 01/23/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

## Oxy Roo 22 State #13

County  
Eddy

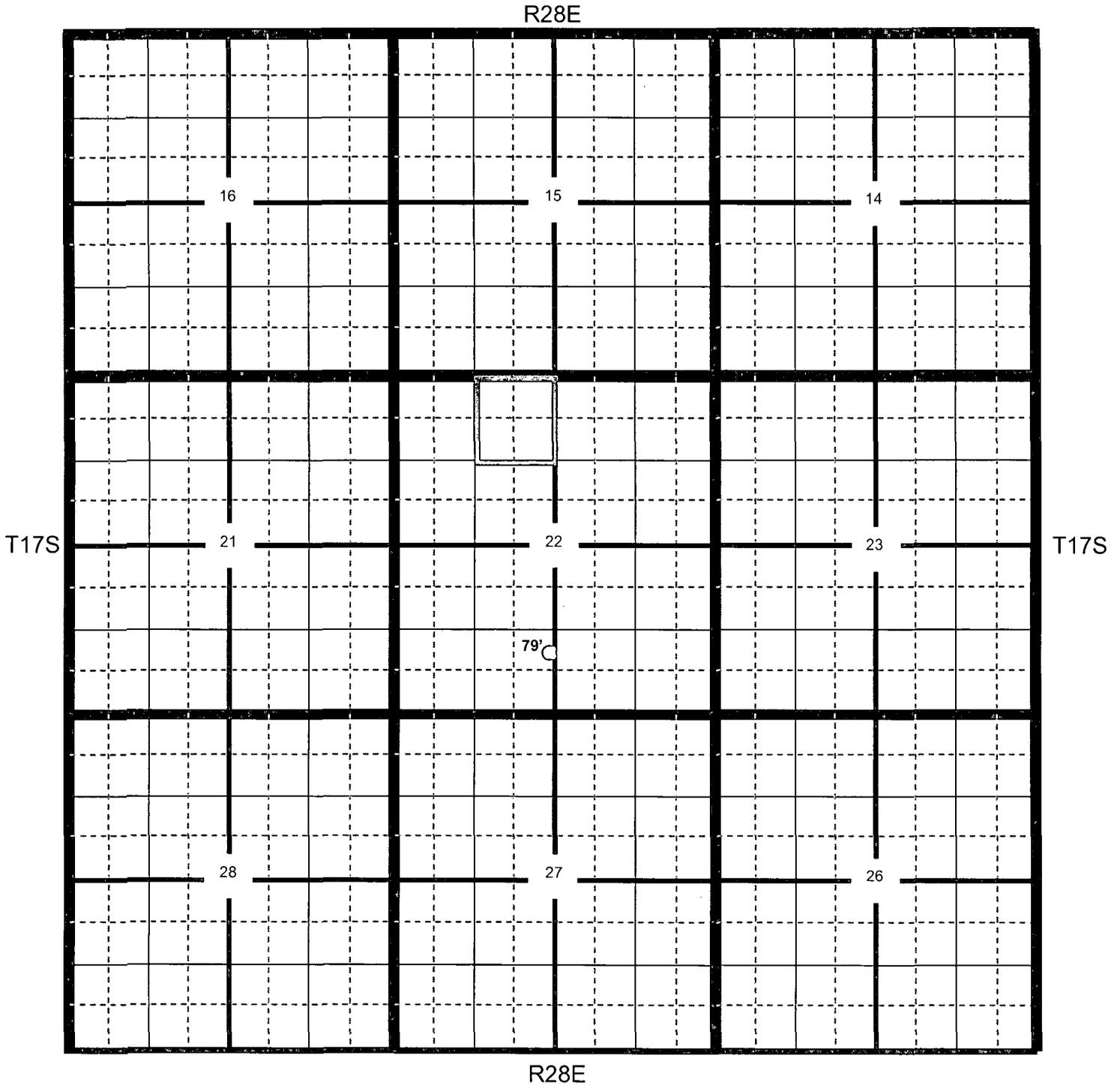
Unit Letter  
C

Section  
22

Township  
17S

Range  
28E

Trend Map 50'



⊛ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

Oxy Roo 22 State #13

County  
Eddy

Unit Letter  
C

Section  
22

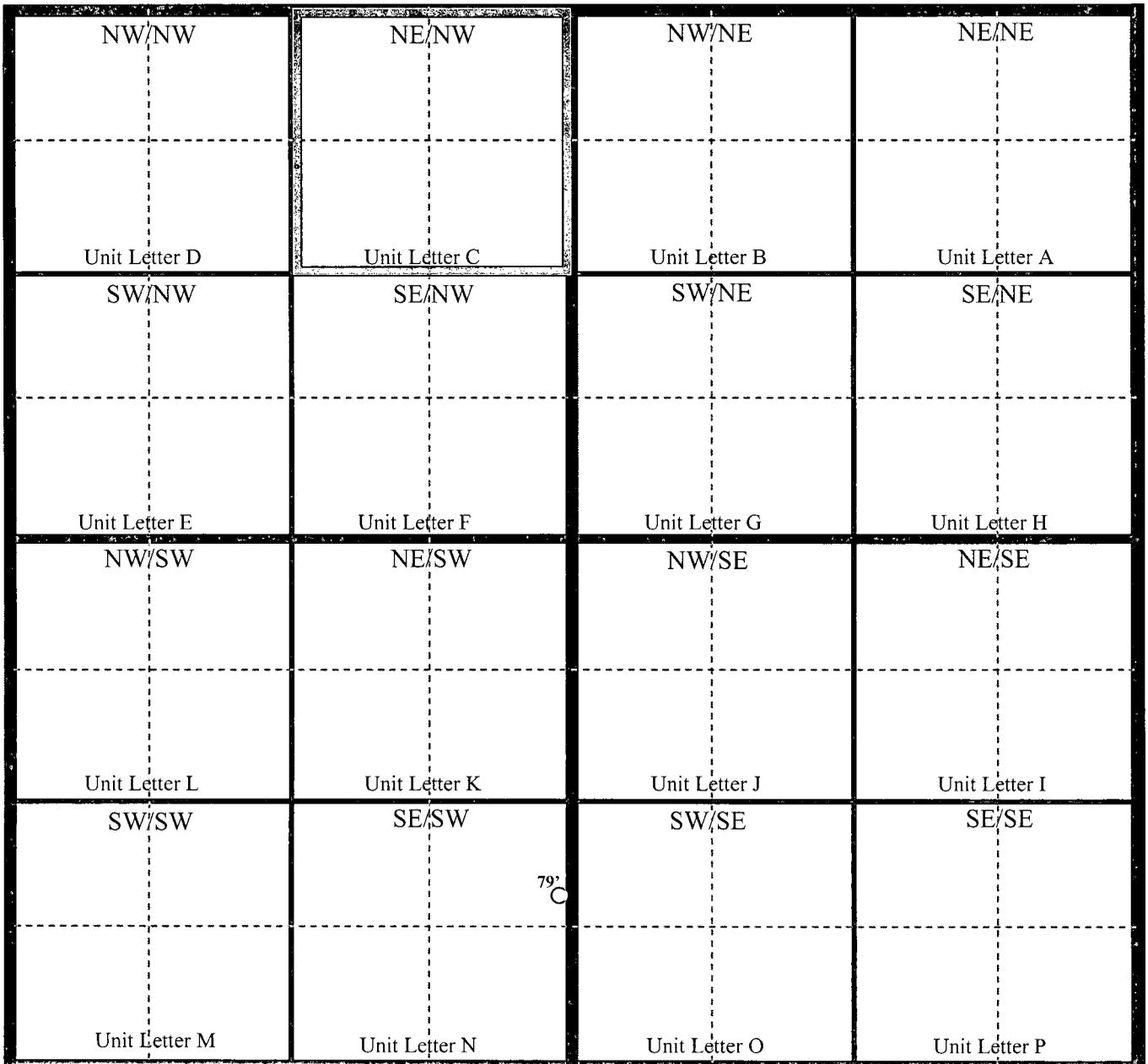
Township  
17S

Range  
28E

Trend Map 50'

1

2



3

4

⊛ Location

○ OCD

○ USGS

○ SEO

● All Databases

**Laboratory Analytical Results Summary  
Roo 22 State #13**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>1280</b>	<b>608</b>	<b>32</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>544</b>	<b>160</b>	<b>64</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<b>68.6</b>	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/24/14	1/24/14	1/24/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<b>384</b>	<b>128</b>	<b>32</b>
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0



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

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January 31, 2014

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

RE: ROO 22 STATE 13

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 9:00.

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 cursive script 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 1 @ 1' (H400250-01)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	1280	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

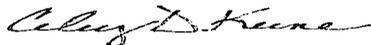
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 2' (H400250-02)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 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	608	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 3' (H400250-03)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	01/31/2014	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	01/30/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 72.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.5 % 63.6-154

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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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 1' (H400250-04)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	544	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	68.6	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 2' (H400250-05)**

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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	160	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 3' (H400250-06)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	64.0	16.0	01/31/2014	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	01/30/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/30/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 72.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.7 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 1' (H400250-07)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	384	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

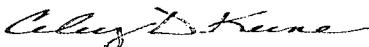
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 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: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: ROO 22 STATE 13  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 01/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: SP 3 @ 2' (H400250-08)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 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	128	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.3 % 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:	01/27/2014	Sampling Date:	01/24/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	ROO 22 STATE 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 3' (H400250-09)**

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	01/30/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/30/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 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	32.0	16.0	01/31/2014	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	01/29/2014	ND	198	98.9	200	4.82		
DRO >C10-C28	<10.0	10.0	01/29/2014	ND	198	99.0	200	2.28		

Surrogate: 1-Chlorooctane 67.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 68.0 % 63.6-154

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Caley 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



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	Roo 22 State #13	Facility Type	Well Location
Surface Owner	State	Mineral Owner	
		API No.	30-015-40535

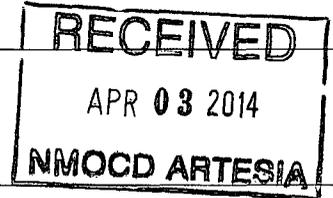
**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	28E	787	North	2023	West	Eddy County, NM

Latitude N 32.81631° Longitude W 104.17°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	7 bbls oil, 33 bbls produced water	Volume Recovered	Unknown
Source of Release	Valve open, handle off, bull plug missing	Date and Hour of Occurrence	12/28/2013	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-NMOCD		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	12/30/2013 @ 12:45 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.\*  
For an unknown reason, a valve was left open, a handle was off, and a bull plug was missing at the well head which caused 7 bbls of oil and 33 bbls of produced water to leak onto the ground. All free-standing fluids were recovered via vacuum truck and the well head parts were repaired and/or replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 10' 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: 1/9/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary