

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

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Release Notification and Corrective Action

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☐ 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.

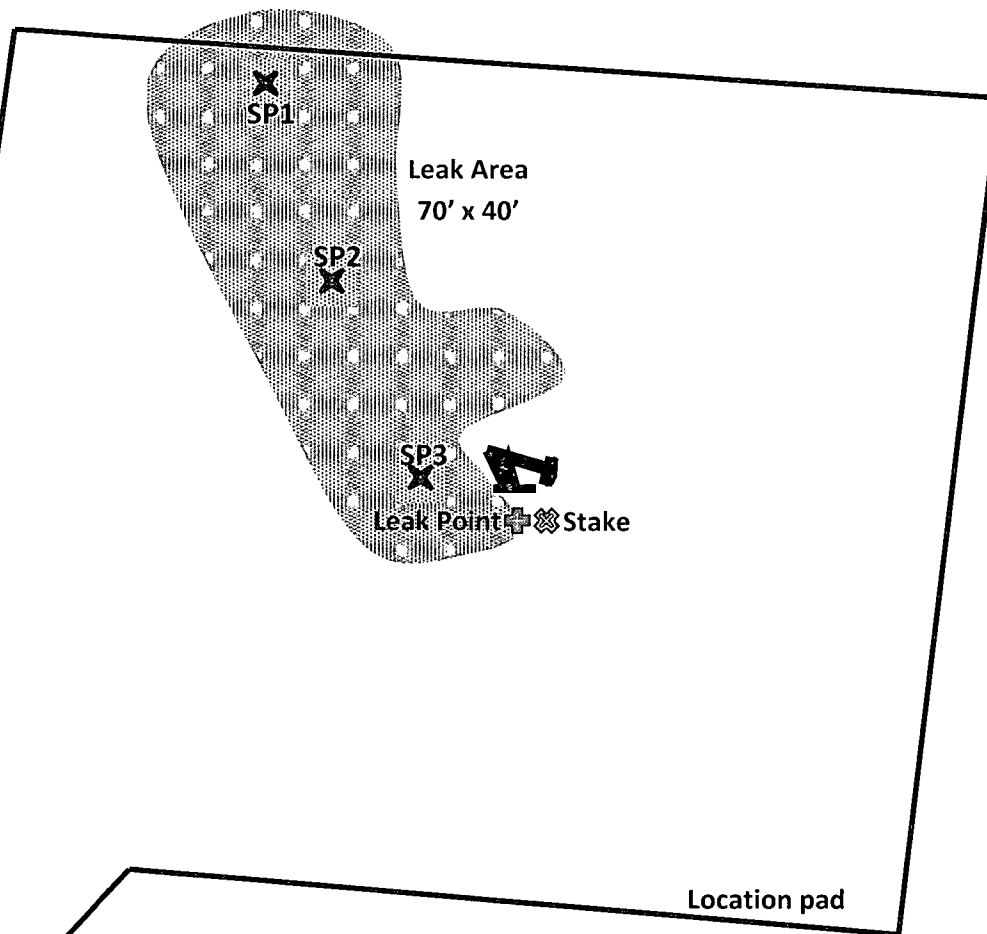
OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Christopher Jones			
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 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

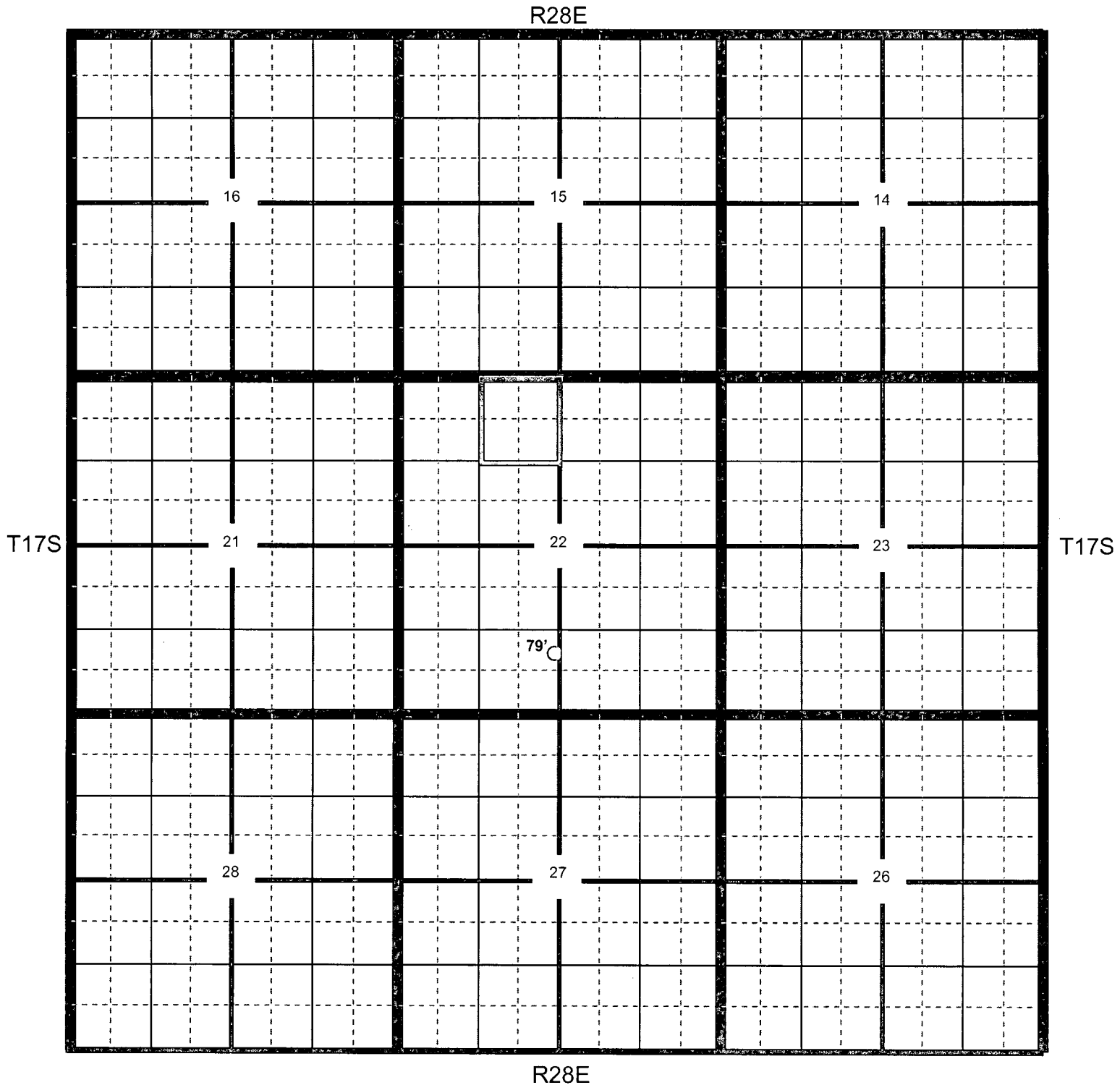
Unit Letter
C

Section
22

Township
17S

Range
28E

Trend Map 50'



Location

OCD

USGS

SEO

All Databases

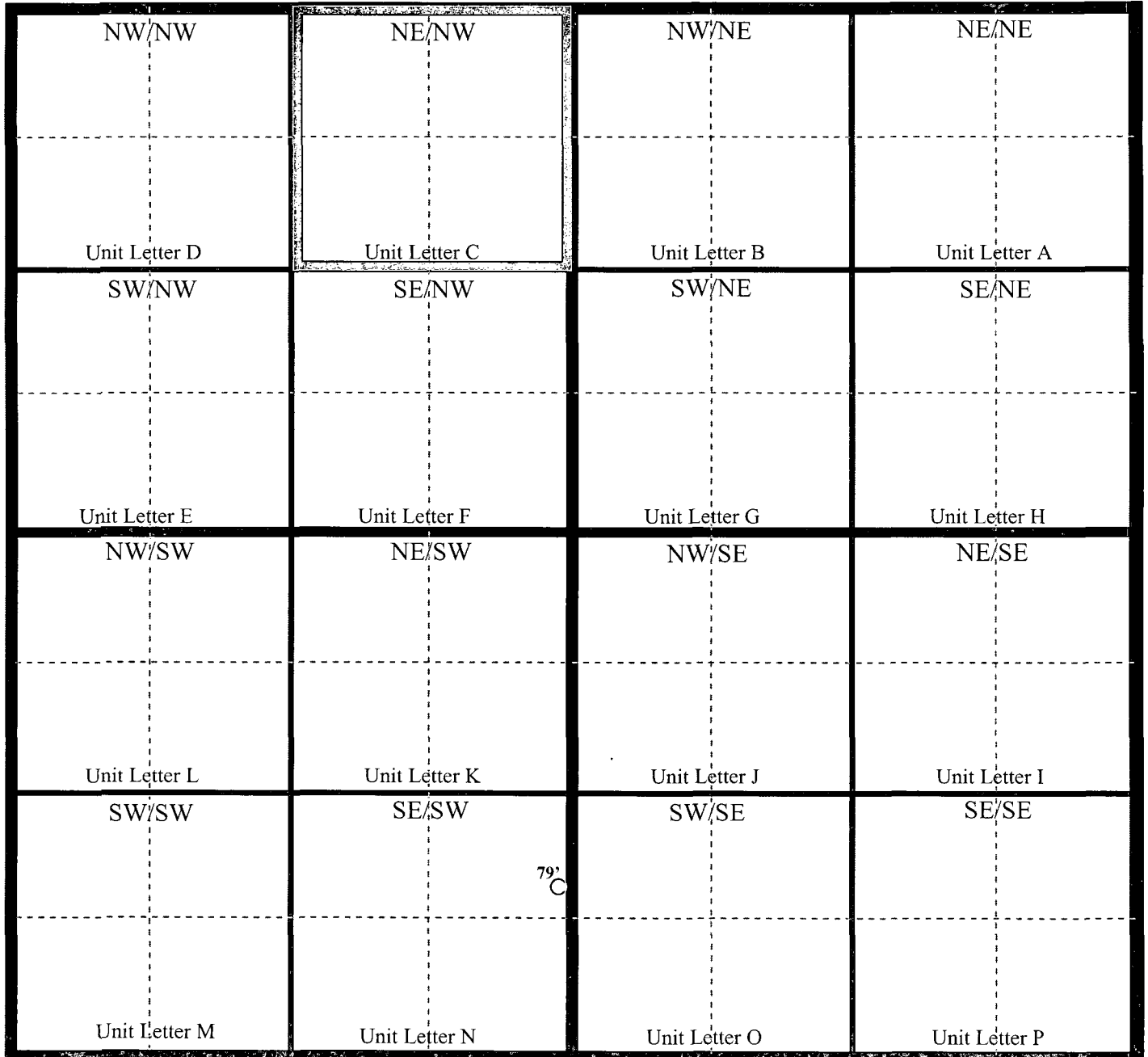
Oxy Roo 22 State #13

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

Trend Map 50'

1

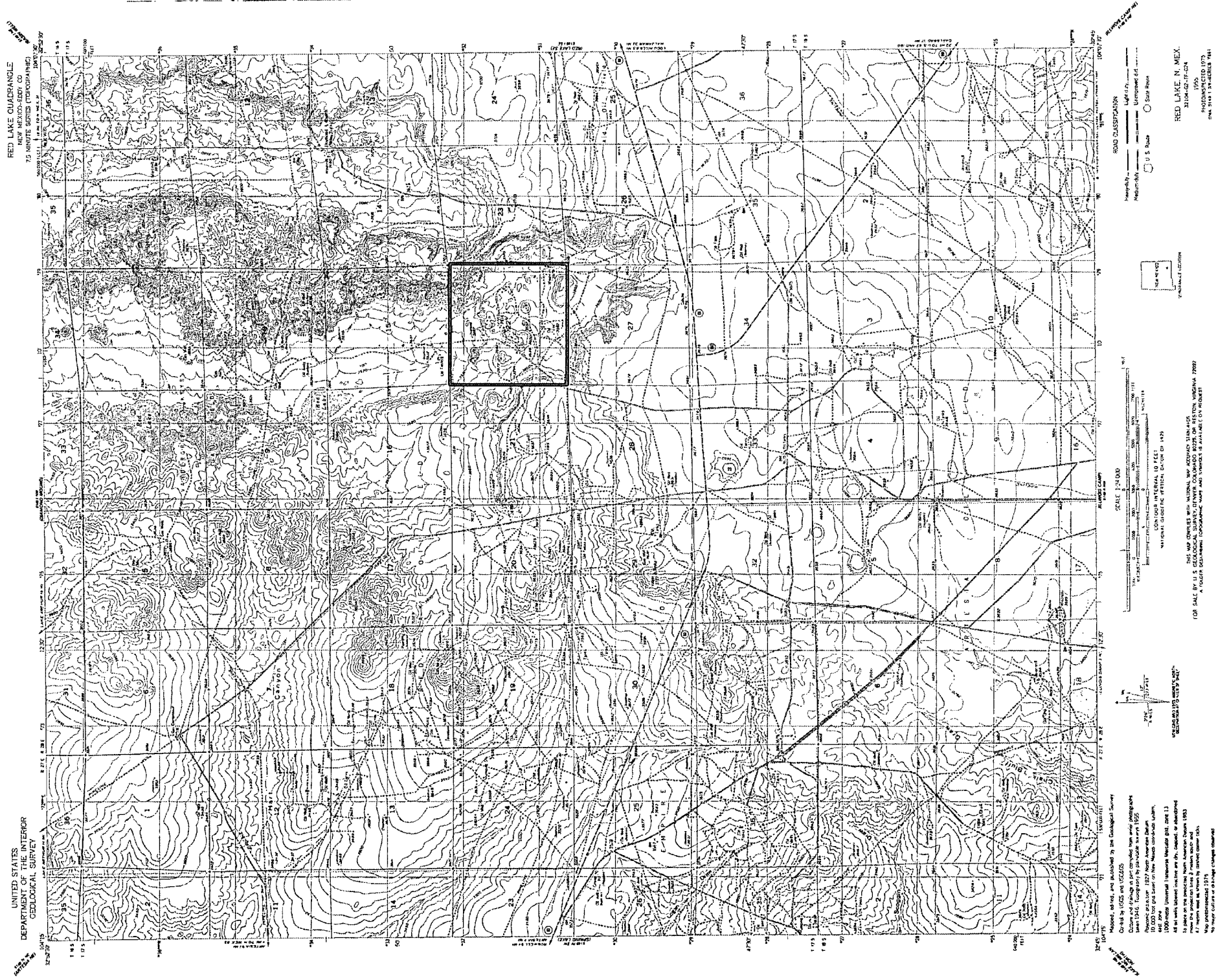
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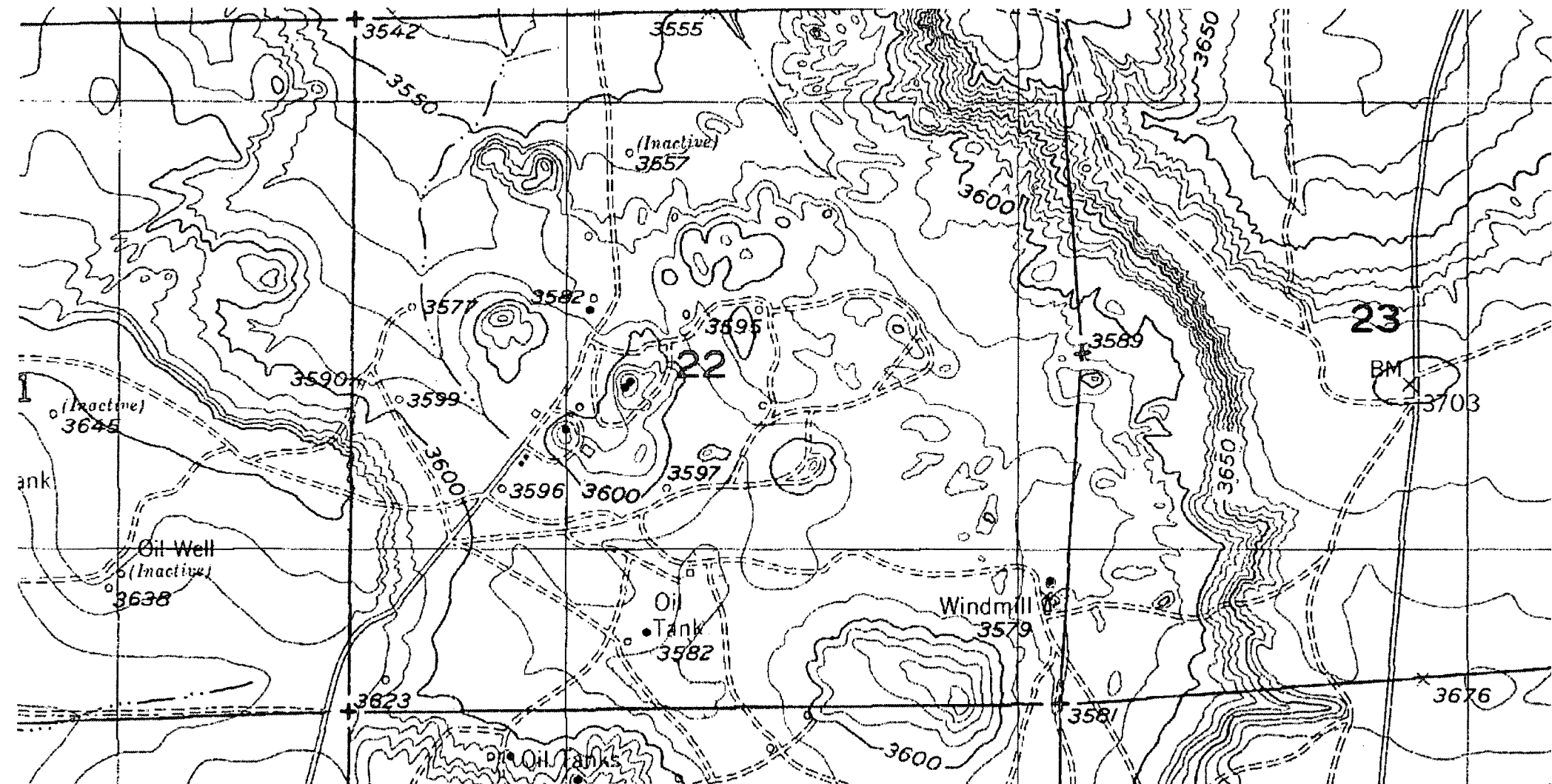
4

Roo 22 State #13



Oxy

Roo 22 State #13



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		1280	608	32
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		544	160	64
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		68.6	<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		384	128	32
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.

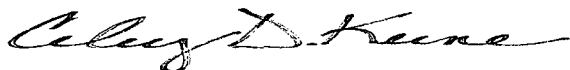
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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	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 @ 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, SM4500Cl-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		

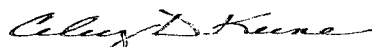
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

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	

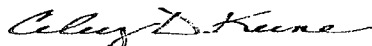
Surrogate: 1-Chlorooctane 102 % 63.2-140

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
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	

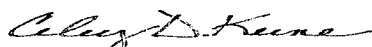
Surrogate: 1-Chlorooctane 72.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.5 % 63.6-154

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 @ 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						

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	

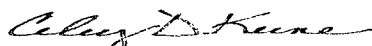
Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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 (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	

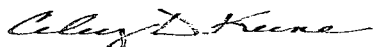
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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* = 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 @ 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, 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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*=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 @ 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, 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					

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	

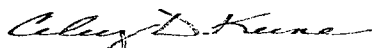
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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*=Accredited Analyte

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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 (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

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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: 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						

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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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL-</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> </div>											
Address: P.O. Box 805				Company:															
City: Hobbs State: NM Zip: 88241				Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>JEMP</i>															
Project #: Project Owner: <i>Oxy</i>				City:															
Project Name: <i>Ro 22 State 13</i>				State: Zip:															
Project Location: <i>Loco Hill</i>				Phone #:															
Sampler Name: <i>Vets Ornelas</i>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME					
H400250																			
1	SP1@1	A	1			X				X			1-24	1005	X	X			
2	SP1@2	G	1			X				X				1011	X	X			
3	SP1@3	G	1			X				X				1020	X	X			
4	SP2@1	G	1			X				X				1111	X	X			
5	SP2@2	G	1			X				X				1130	X	X			
6	SP2@3	G	1			X				X				1159	X	X			
7	SP3@1	G	1			X				X				130	X	X			
8	SP3@2	G	1			X				X				149	X	X			
9	SP3@3	G	1			X				X				222	X	X			

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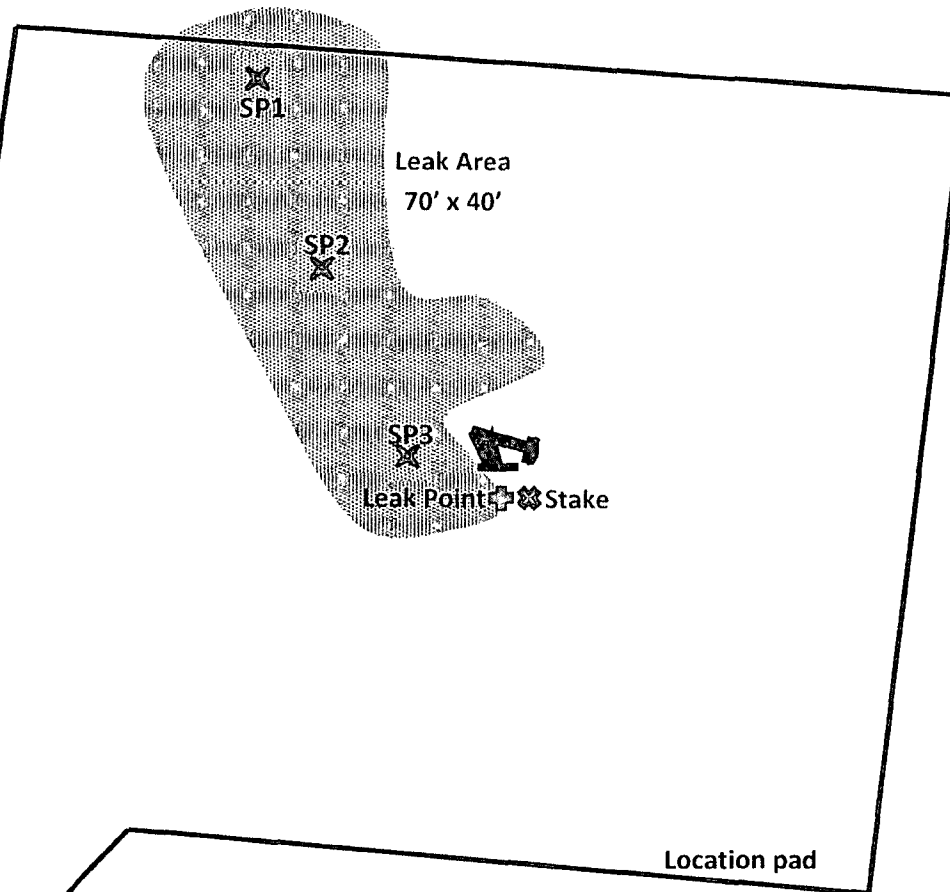
Relinquished By:	Date: 1-27-14 Time: 8:00	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 1-27-14 Time: 9:00	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.7°C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY:
REMARKS:			

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

#51



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

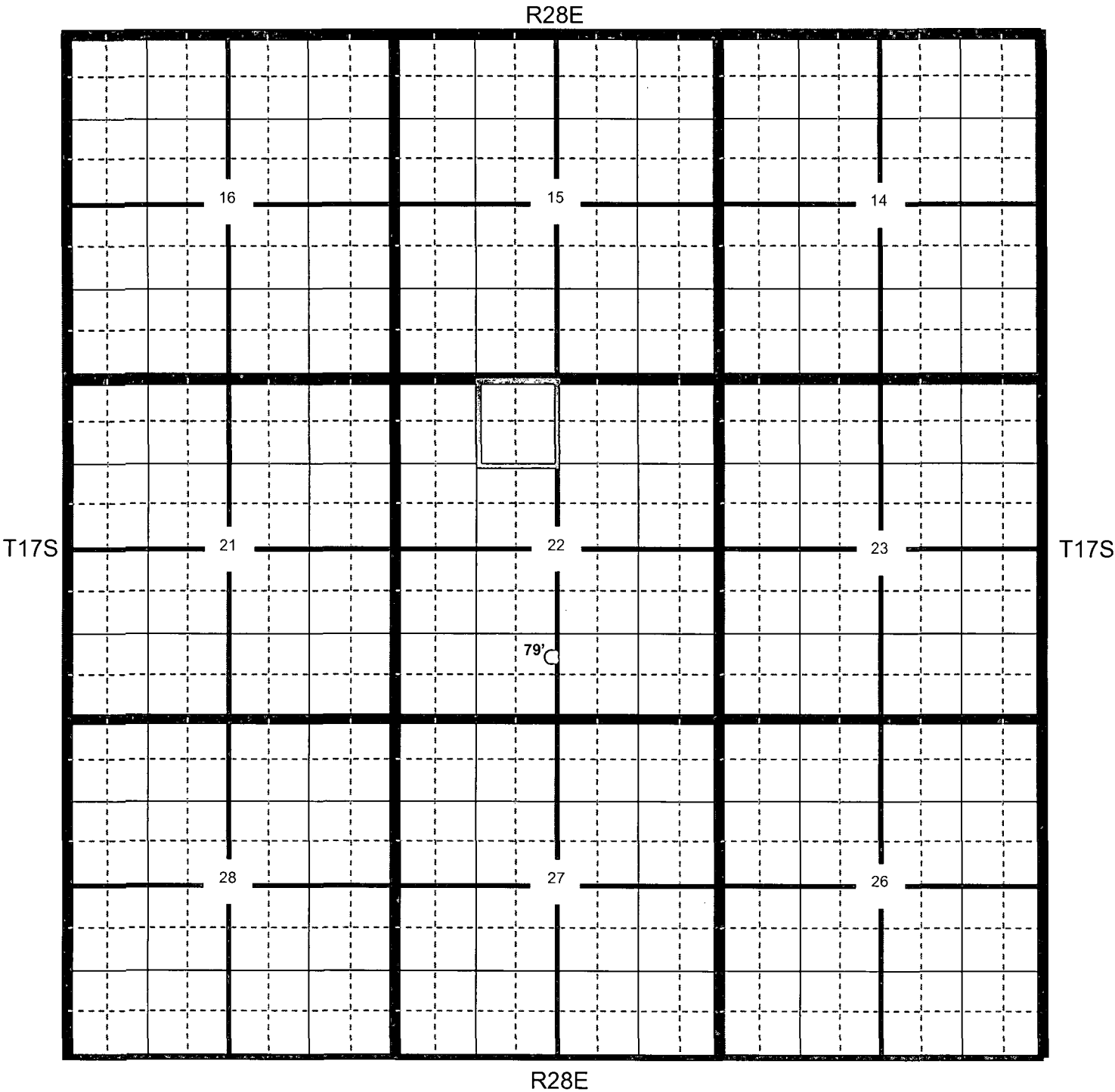
BBC International, Inc.	
Oxy Roo 22 State #13	
Date: 01/23/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



Groundwater Plot
Oxy Roo 22 State #13

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

Trend Map 50'



**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		1280	608	32
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		544	160	64
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		68.6	<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		384	128	32
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

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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 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

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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: 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 (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	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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 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					

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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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 @ 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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 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 (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	

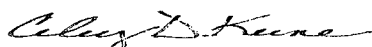
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

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P.O. Box 805
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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 (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	64.0	16.0	01/31/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: ms					

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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Analytical Results For:

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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 @ 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					

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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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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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

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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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#521

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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
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LOCATION OF RELEASE

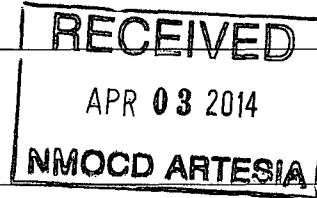
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	22	17S	28E	787	North	2023	West	Eddy County, NM

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