

Closure Report

Site Description

Site Name:	Roo 22 State #5 Satellite
Company:	Oxy Permian Ltd.
Legal Description:	U/L E, Section 22, T17S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.82176° W 104.16964°

Release Data

Date of Release:	01/08/2016
Type of Release:	Oil
Source of Release:	Ball came out of water transfer pump valve
Volume of Release:	20 bbls
Volume Recovered:	15 bbls

Remediation Specifications

Remediation Parameters:	Surface scrape to a depth of 6 inches in the areas of SP1 and SP2. Excavate to a depth of 1.5 feet in the areas of SP3 and SP4. Backfill the site with clean soil.
Remediation Activities:	March 2016

Plan Sent to OCD:	03/14/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	03/16/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 01/14/2016
Final C-141	Signed 04/27/2016
Site Diagram	January 2016
Groundwater Plot	75'
TOPO Maps	January 2016
Lab Summary	01/29/2016 to 02/01/2016
Lab Analysis	01/29/2016 to 02/01/2016
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.

05/02/2016

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Roo 22 State #5 Satellite	Facility Type	Satellite
Surface Owner	State	Mineral Owner	API No. 30-015-39497

LOCATION OF RELEASE

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

Latitude N 32.82176° Longitude W 104.16964°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	20 bbls	Volume Recovered	15 bbls
Source of Release	Vibration of water transfer pump valve caused the ball to come out	Date and Hour of Occurrence	01/08/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson-NMOCD		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/08/2016 @ 8:21 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

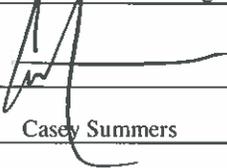
Describe Cause of Problem and Remedial Action Taken.*

Vibration of a water transfer pump caused the ball to come out of the valve and spill 20 bbls of oil onto the ground. A vacuum truck recovered 15 bbls of oil and the valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 135' x 105' on location. Remediation will be completed in accordance with a remediation 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:		OIL CONSERVATION DIVISION	
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxv.com	Conditions of Approval:	
Date:	1-14-16	Phone:	(575) 513-8289
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Roo 22 State #5 Satellite	Facility Type	Satellite
Surface Owner	State	Mineral Owner	API No. 30-015-39497

LOCATION OF RELEASE

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

Latitude N 32.82176° Longitude W 104.16964°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	20 bbls	Volume Recovered	15 bbls
Source of Release	Vibration of water transfer pump valve caused the ball to come out	Date and Hour of Occurrence	01/08/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson-NMOCD		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/08/2016 @ 8:21 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

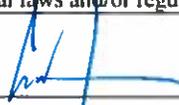
Describe Cause of Problem and Remedial Action Taken.*

Vibration of a water transfer pump caused the ball to come out of the valve and spill 20 bbls of oil onto the ground. A vacuum truck recovered 15 bbls of oil and the valve was repaired.

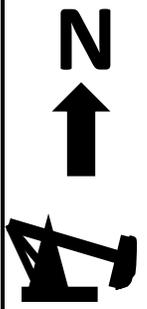
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 135' x 105' on location. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 03/16/2016.

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

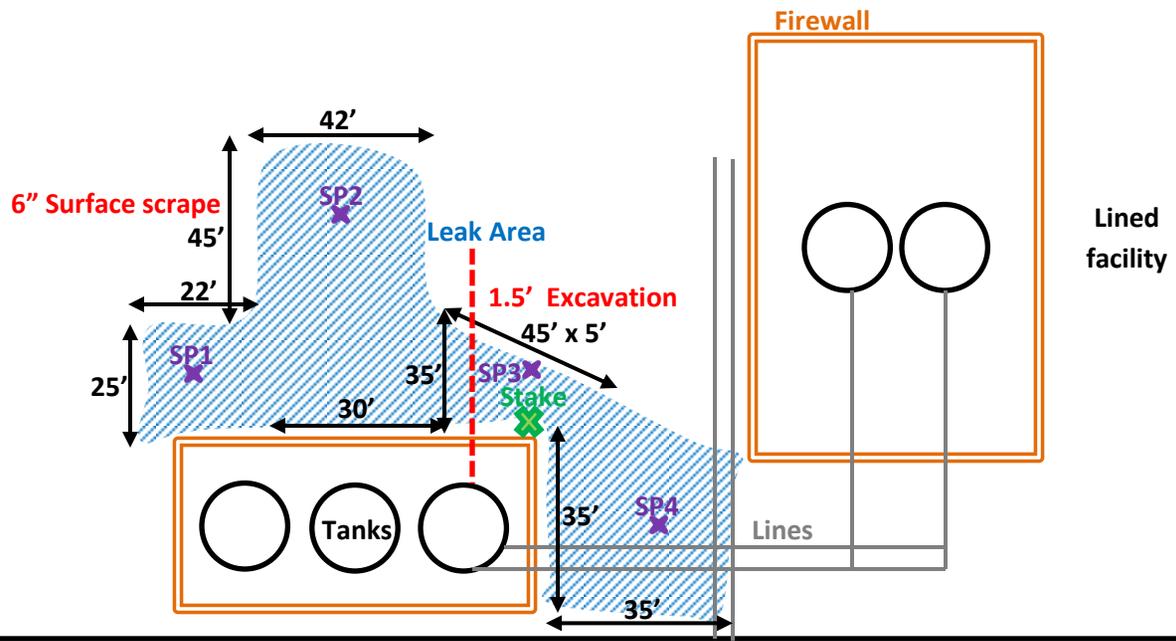
Signature:		OIL CONSERVATION DIVISION		
Printed Name:	Casey Summers	Approved by Environmental Specialist:		
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address:	Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	4-27-16	Phone:	(575) 513-8289	

* Attach Additional Sheets If Necessary



Oxy
Roo 22 State #5 Satellite

Location



Road

U/L E, Section 22, T17S, R28E
 Eddy County, NM
 N 32.82176° W 104.16964°
 API# 30-015-39497

BBC International, Inc.	
Oxy	
Roo 22 State #5 Satellite	
Date: 1/13/16	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2016

Groundwater Plot

Oxy Roo 22 State #5 Satellite

County
Eddy

Unit Letter
E

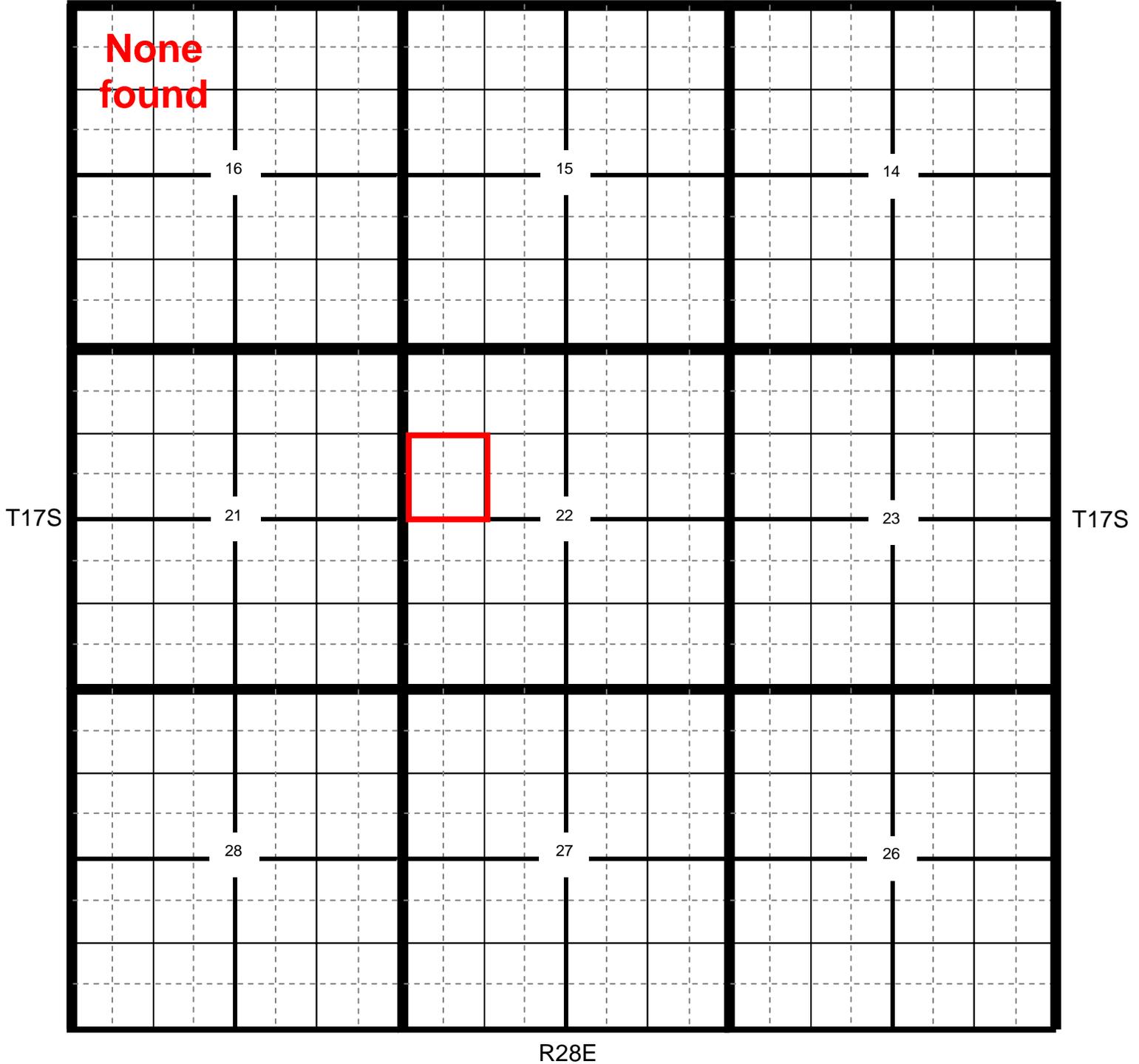
Section
22

Township
17S

Range
28E

Trend Map 75'

R28E



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Roo 22 State #5 Satellite

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

Trend Map 75'

1

2

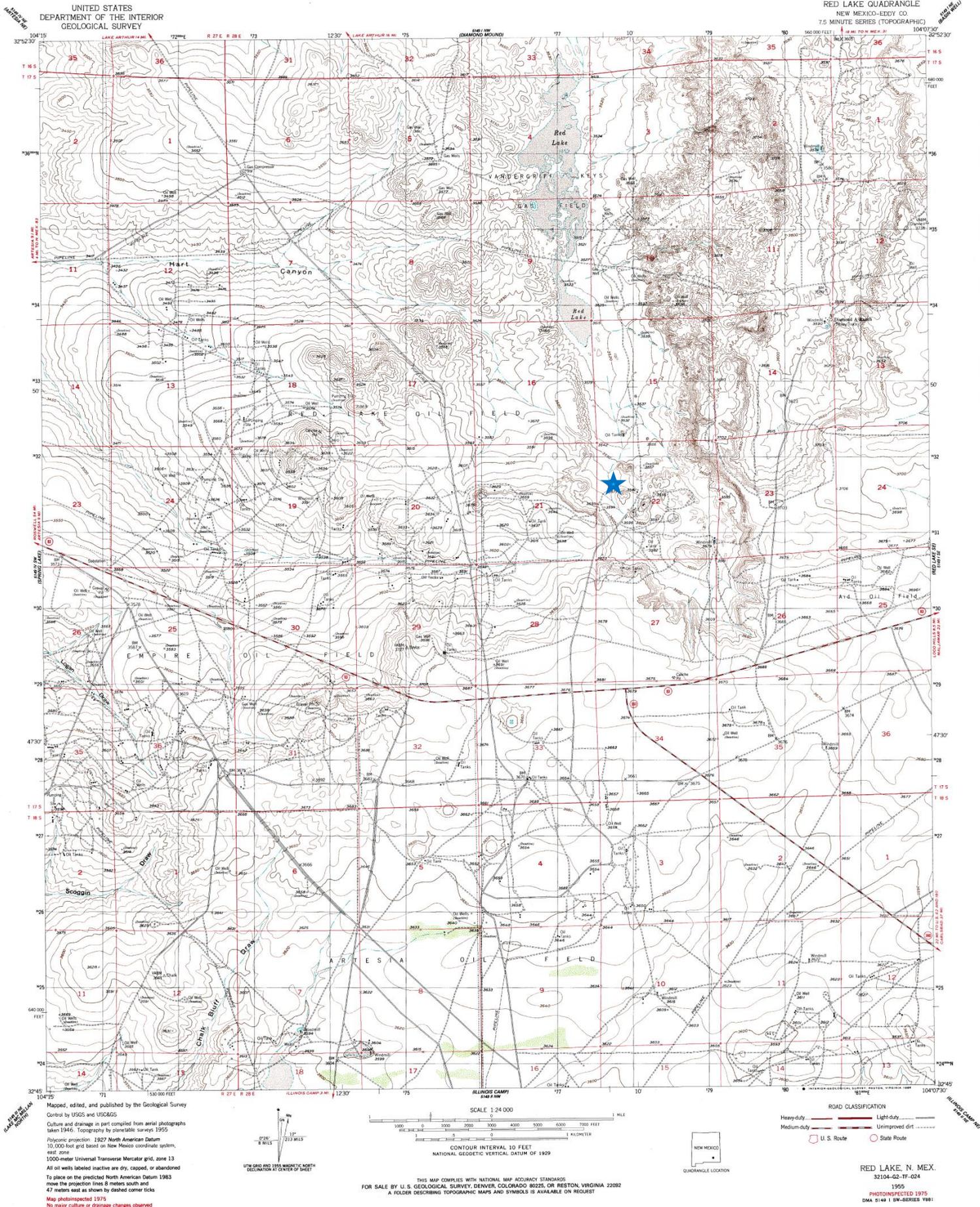
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Oxy

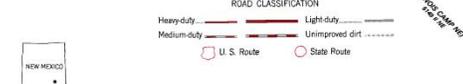
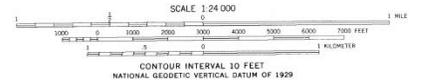
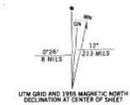
Roo 22 State #5 Satellite



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RED LAKE QUADRANGLE
NEW MEXICO-EEZY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Maped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Culture and drainage in part compiled from aerial photographs
taken 1946. Topography by plane-table surveys 1955
Polyconic projection. 1927 North American Datum
10,000-foot grid based on New Mexico coordinate system,
east zone
1000-meter Universal Transverse Mercator grid, zone 13
All oil wells labeled inactive are dry, capped, or abandoned
To place on the predicted North American Datum 1983
move the projection lines 8 meters south and
47 meters east as shown by dashed corner ticks
Map photomicrofed 1976
No major culture or drainage changes observed

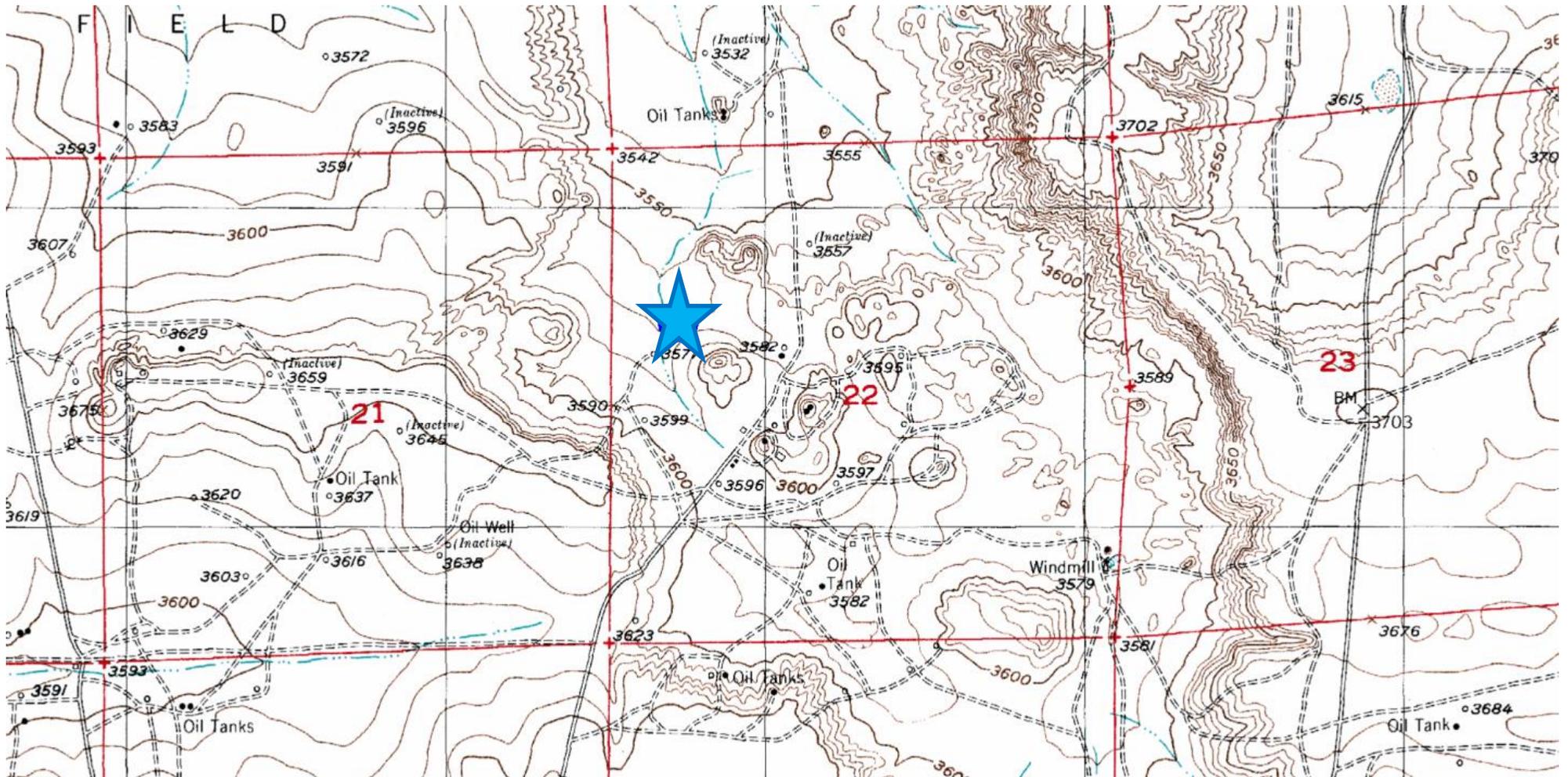


THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

RED LAKE, N. MEX.
32104-G2-TF-024
1955
PHOTOMICROFED 1976
DMA 5149 1 0N-SERIES 1981

Oxy

Roo 22 State #5 Satellite



**Laboratory Analytical Results Summary
Ro0 22 State #5 Satellite**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	1/29/16	1/29/16	1/29/16	1/29/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/29/16	1/29/19	1/29/19
			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
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	2/1/16	2/1/16	2/1/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050
Toluene	BTEX 8021B		8.55	<0.050	<0.050
Ethylbenzene	BTEX 8021B		16.9	<0.050	<0.050
Total Xylenes	BTEX 8021B		36.2	<0.150	<0.150
Total BTEX	BTEX 8021B		61.7	<0.300	<0.300
GRO	TPH 8015M		1440	<10.0	<10.0
DRO	TPH 8015M		5220	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 4'	SP4 @ 6'	SP4 @ 7'
Analyte	Method	Date	2/1/16	2/1/16	2/1/16	2/1/16	2/1/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		6.01	0.053	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		11.4	0.05	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		24.8	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		42.1	<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		1450	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		5600	<10.0	<10.0	<10.0	<10.0



February 10, 2016

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

RE: ROO 22 STATE #5 SATELLITE

Enclosed are the results of analyses for samples received by the laboratory on 02/05/16 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP1 @ 1 (H600262-01)

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	02/08/2016	ND	2.17	109	2.00	1.43	
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168	
Total BTEX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80	
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13	

Surrogate: 1-Chlorooctane 70.9 % 35-147

Surrogate: 1-Chlorooctadecane 78.4 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP1 @ 2 (H600262-02)

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	02/08/2016	ND	2.17	109	2.00	1.43		
Toluene*	<0.050	0.050	02/08/2016	ND	2.14	107	2.00	0.784		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.93	96.4	2.00	0.121		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.94	99.0	6.00	0.168		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80		
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13		

Surrogate: 1-Chlorooctane 63.9 % 35-147

Surrogate: 1-Chlorooctadecane 71.7 % 28-171

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:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP1 @ 3 (H600262-03)

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	02/08/2016	ND	2.04	102	2.00	1.81	
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80	
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13	

Surrogate: 1-Chlorooctane 69.7 % 35-147

Surrogate: 1-Chlorooctadecane 77.9 % 28-171

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:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP1 @ 4 (H600262-04)

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	02/08/2016	ND	2.04	102	2.00	1.81		
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80		
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13		

Surrogate: 1-Chlorooctane 66.4 % 35-147

Surrogate: 1-Chlorooctadecane 73.6 % 28-171

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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:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP2 @ 1 (H600262-05)

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	02/08/2016	ND	2.04	102	2.00	1.81		
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80		
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13		

Surrogate: 1-Chlorooctane 65.2 % 35-147

Surrogate: 1-Chlorooctadecane 73.3 % 28-171

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP2 @ 2 (H600262-06)

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	02/08/2016	ND	2.04	102	2.00	1.81		
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80		
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13		

Surrogate: 1-Chlorooctane 65.6 % 35-147

Surrogate: 1-Chlorooctadecane 74.2 % 28-171

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 Fax To: (575) 397-0397

Received:	02/05/2016	Sampling Date:	01/29/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP2 @ 3 (H600262-07)

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	02/08/2016	ND	2.04	102	2.00	1.81		
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	02/06/2016	ND	205	103	200	1.80		
DRO >C10-C28	<10.0	10.0	02/06/2016	ND	206	103	200	3.13		

Surrogate: 1-Chlorooctane 62.5 % 35-147

Surrogate: 1-Chlorooctadecane 70.4 % 28-171

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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP3 @ 1 (H600262-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/09/2016	ND	2.04	102	2.00	1.81	
Toluene*	8.55	0.500	02/09/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	16.9	0.500	02/09/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	36.2	1.50	02/09/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	61.7	3.00	02/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1440	50.0	02/08/2016	ND	200	99.9	200	8.63		
DRO >C10-C28	5220	50.0	02/08/2016	ND	190	94.9	200	12.2		

Surrogate: 1-Chlorooctane 165 % 35-147

Surrogate: 1-Chlorooctadecane 141 % 28-171

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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP3 @ 3 (H600262-09)

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	02/09/2016	ND	2.04	102	2.00	1.81	
Toluene*	<0.050	0.050	02/09/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	<0.050	0.050	02/09/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/09/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.2 % 28-171

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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP3 @ 4 (H600262-10)

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	02/08/2016	ND	2.04	102	2.00	1.81	
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 85.0 % 28-171

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP4 @ 1 (H600262-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/09/2016	ND	2.04	102	2.00	1.81	
Toluene*	6.01	0.500	02/09/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	11.4	0.500	02/09/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	24.8	1.50	02/09/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	42.1	3.00	02/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1450	50.0	02/08/2016	ND	200	99.9	200	8.63		
DRO >C10-C28	5600	50.0	02/08/2016	ND	190	94.9	200	12.2		

Surrogate: 1-Chlorooctane 169 % 35-147

Surrogate: 1-Chlorooctadecane 152 % 28-171

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 Cliff Brunson
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 Hobbs NM, 88241
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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP4 @ 2 (H600262-12)

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	02/09/2016	ND	2.04	102	2.00	1.81	
Toluene*	0.053	0.050	02/09/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	0.050	0.050	02/09/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/09/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 89.0 % 35-147

Surrogate: 1-Chlorooctadecane 97.4 % 28-171

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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP4 @ 4 (H600262-13)

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	02/08/2016	ND	2.04	102	2.00	1.81	
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 79.8 % 35-147

Surrogate: 1-Chlorooctadecane 85.9 % 28-171

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Received:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP4 @ 6 (H600262-14)

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	02/08/2016	ND	2.04	102	2.00	1.81		
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44		
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77		
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81		
Total BTEX	<0.300	0.300	02/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63		
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2		

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

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:	02/05/2016	Sampling Date:	02/01/2016
Reported:	02/10/2016	Sampling Type:	Soil
Project Name:	ROO 22 STATE #5 SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Celey D. Keene
Project Location:	LOCO HILLS, NM		

Sample ID: SP4 @ 7 (H600262-15)

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	02/08/2016	ND	2.04	102	2.00	1.81	
Toluene*	<0.050	0.050	02/08/2016	ND	2.01	100	2.00	1.44	
Ethylbenzene*	<0.050	0.050	02/08/2016	ND	1.83	91.7	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/08/2016	ND	5.54	92.4	6.00	1.81	
Total BTEX	<0.300	0.300	02/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	02/08/2016	ND	200	99.9	200	8.63	
DRO >C10-C28	<10.0	10.0	02/08/2016	ND	190	94.9	200	12.2	

Surrogate: 1-Chlorooctane 72.9 % 35-147

Surrogate: 1-Chlorooctadecane 78.4 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
Project Manager: Cliff Brunson Company:
Address: P.O. Box 805 Attn:
City: Hobbs State: NM Zip: 88241 Address:
Phone #: 575-397-6388 Fax #: 575-397-0397 City:
Project #: Project Owner: OKV State: Zip:
Project Name: Box 72 Spts #5 Site/1K Phone #:
Project Location: Love Hill Fax #:
Sampler Name: Cliff Brunson

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				
H000262	SP101		1			X	X	X	X	X	X	1-29	957		
	SP102		1			X	X	X	X	X	X		1030		
	SP103		1			X	X	X	X	X	X		1058		
	SP104		1			X	X	X	X	X	X		1124		
	SP201		1			X	X	X	X	X	X		1301		
	SP202		1			X	X	X	X	X	X		145		
	SP203		1			X	X	X	X	X	X		215		
	SP301		1			X	X	X	X	X	X		850		
	SP302		1			X	X	X	X	X	X		1000		
	SP303		1			X	X	X	X	X	X		1030		

FOR LAB USE ONLY

Relinquished By: *[Signature]* Date: 1/11/14 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 2/1/16 Received By: *[Signature]*

Delivered By: (Circle One) UPS Bus Other: 4.22

Sample Condition: Cool Intact Yes No

CHECKED BY: (Initials) *OK*

REMARKS:

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

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, March 16, 2016 3:16 PM
To: Cliff Brunson
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-Roo 22 State #5 Satellite-Remediation Plan

RE: OXY USA 8 * ROO 22 St 5 * 30-015-39497 * **2RP-3498** * DOR 1/8/2016

Cliff,

Your proposal for remediation of the above referenced release is approved. Please reference the listed **2RP** number in future correspondence.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, March 14, 2016 6:51 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Roo 22 State #5 Satellite-Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy Roo 22 State #5 Satellite release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.6189 / Virus Database: 4542/11823 - Release Date: 03/16/16

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Version: 2015.0.6189 / Virus Database: 4542/11823 - Release Date: 03/16/16















