

# Closure Report

## Site Description

Site Name:	MLMU #71
Company:	Oxy Permian Ltd.
Legal Description:	U/L J, Section 31, T23S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.25922° W 103.21630°

## Release Data

Date of Release:	04/08/2014
Type of Release:	Produced water
Source of Release:	1" stainless steel injection line caused by stress/fatigue
Volume of Release:	100 bbls
Volume Recovered:	50 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 4 feet. Excavate the area around SP4 to a depth of 2 feet. Excavate the remainder of the spill areas around SP2, SP3, SP5, SP6, & SP7 to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	08/21/2014 to 08/28/2014	
Plan Sent to OCD:	06/26/2014	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	07/01/2014	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	06/26/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	06/30/2014	Verbal approval in Meeting

## Supporting Documentation

Initial C-141	Signed 04/15/2014
Final C-141	Signed 09/16/2014
Site Diagram	April 2014
Groundwater Plot	125'
TOPO Maps	April 2014
Lab Summary	05/09/2014-05/12/2014
Lab Analysis	05/09/2014-05/12/2014
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.

09/22/2014

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #71 CTB	Facility Type	Battery
Surface Owner	Kelly Myers	Mineral Owner	
		API No.	30-025-10901(nearest well)

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	31	23S	37E					Lea

Latitude N 32.26219° Longitude W 103.2074°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	100 bbls	Volume Recovered	50 bbls
Source of Release	1" stainless steel injection line caused by stress/fatigue at remote header	Date and Hour of Occurrence	04/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Jennifer Gilkey	Date and Hour	04/09/2014 @ 5:24 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.\*

Stress on a 1" stainless steel injection line at a remote header caused a leak of 100 bbls of produced water to spill onto the ground. A vacuum truck recovered 50 bbls of produced water and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 8' x 650' on and off location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>4-15-14</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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Facility Name	MLMU #71 CTB	Facility Type	Battery
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	31	23S	37E					Lea

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Type of Release	Produced water	Volume of Release	100 bbls	Volume Recovered	50 bbls
Source of Release	1" stainless steel injection line caused by stress/fatigue at remote header	Date and Hour of Occurrence	04/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Jennifer Gilkey	Date and Hour	04/09/2014 @ 5:24 pm		
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Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 8' x 650' on and off location. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking via email on 07/01/2014 and approved by Jennifer Van Curen of the BLM via meeting on 06/30/2014.

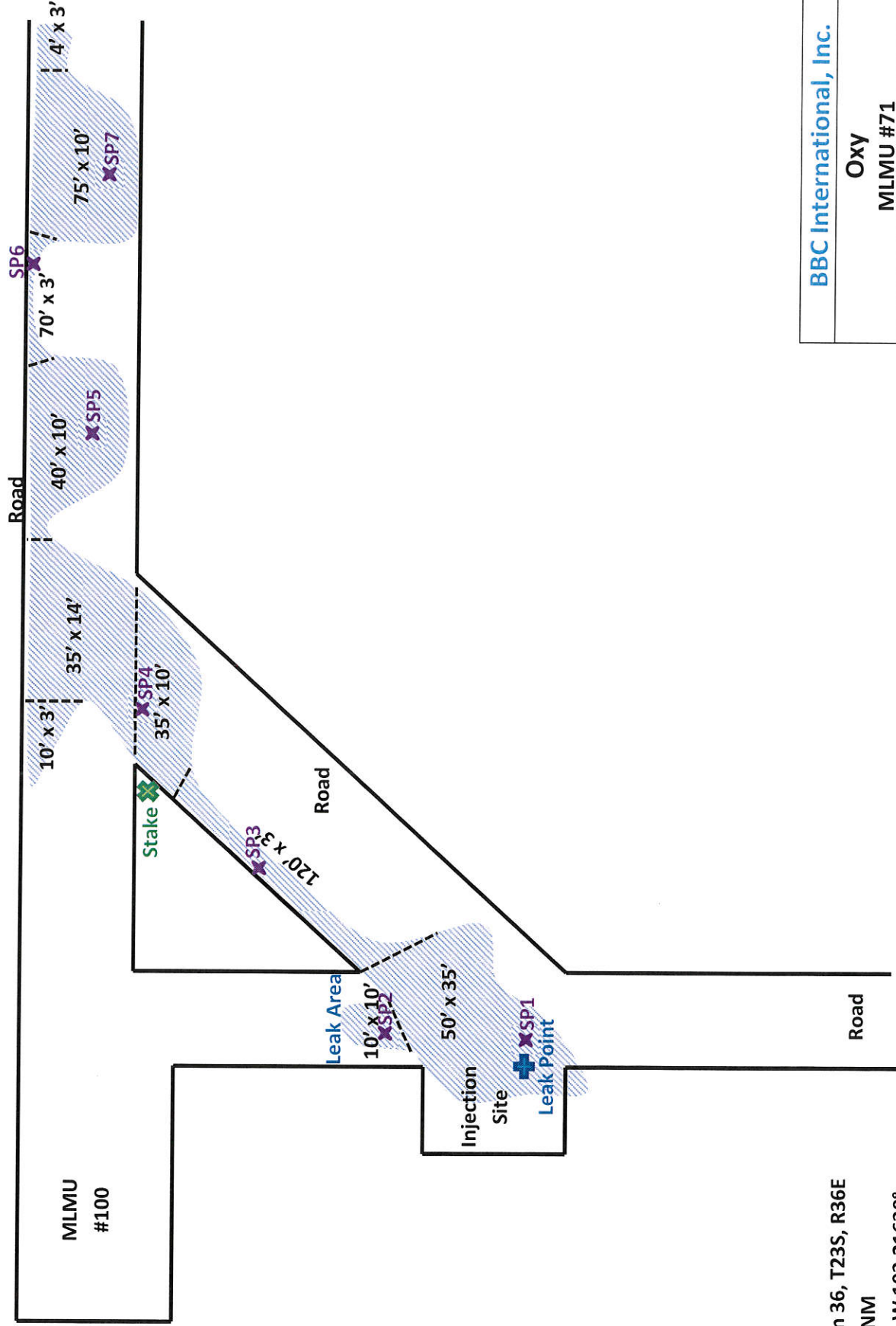
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 9-16-14	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy  
MLMU #71



U/L J, Section 36, T23S, R36E  
Lea County, NM  
N 32.25922° W 103.21630°

BBC International, Inc.		
Oxy		
MLMU #71		
Date: 04/21/2014	DRWG by: K. Purvis	
NOT TO SCALE	File: Oxy 2014	

# Groundwater Plot

Oxy MLMU #71

County  
Lea

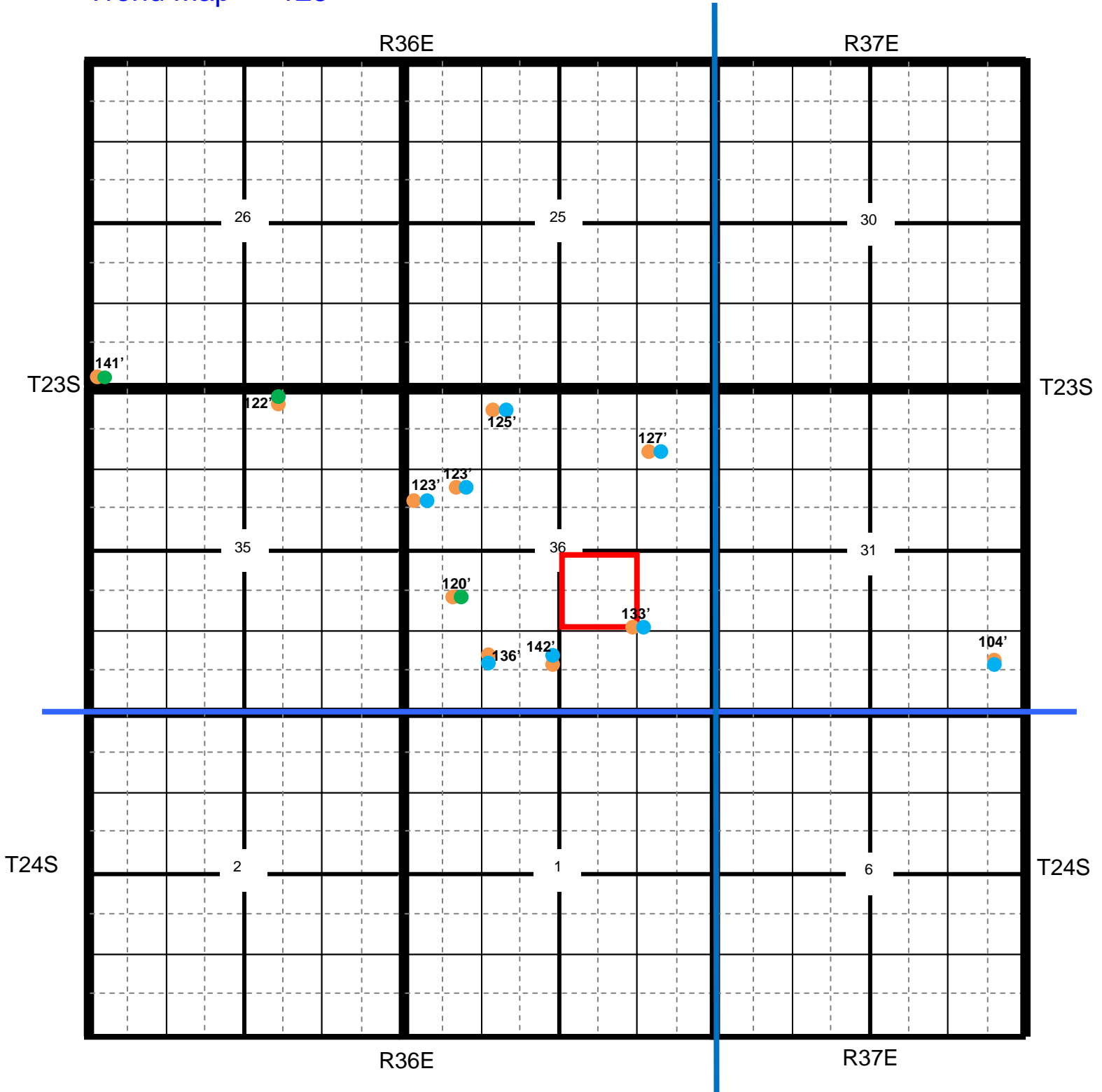
Unit Letter  
J

Section  
36

Township  
23S

Range  
36E

Trend Map 125'



Location

OCD

USGS

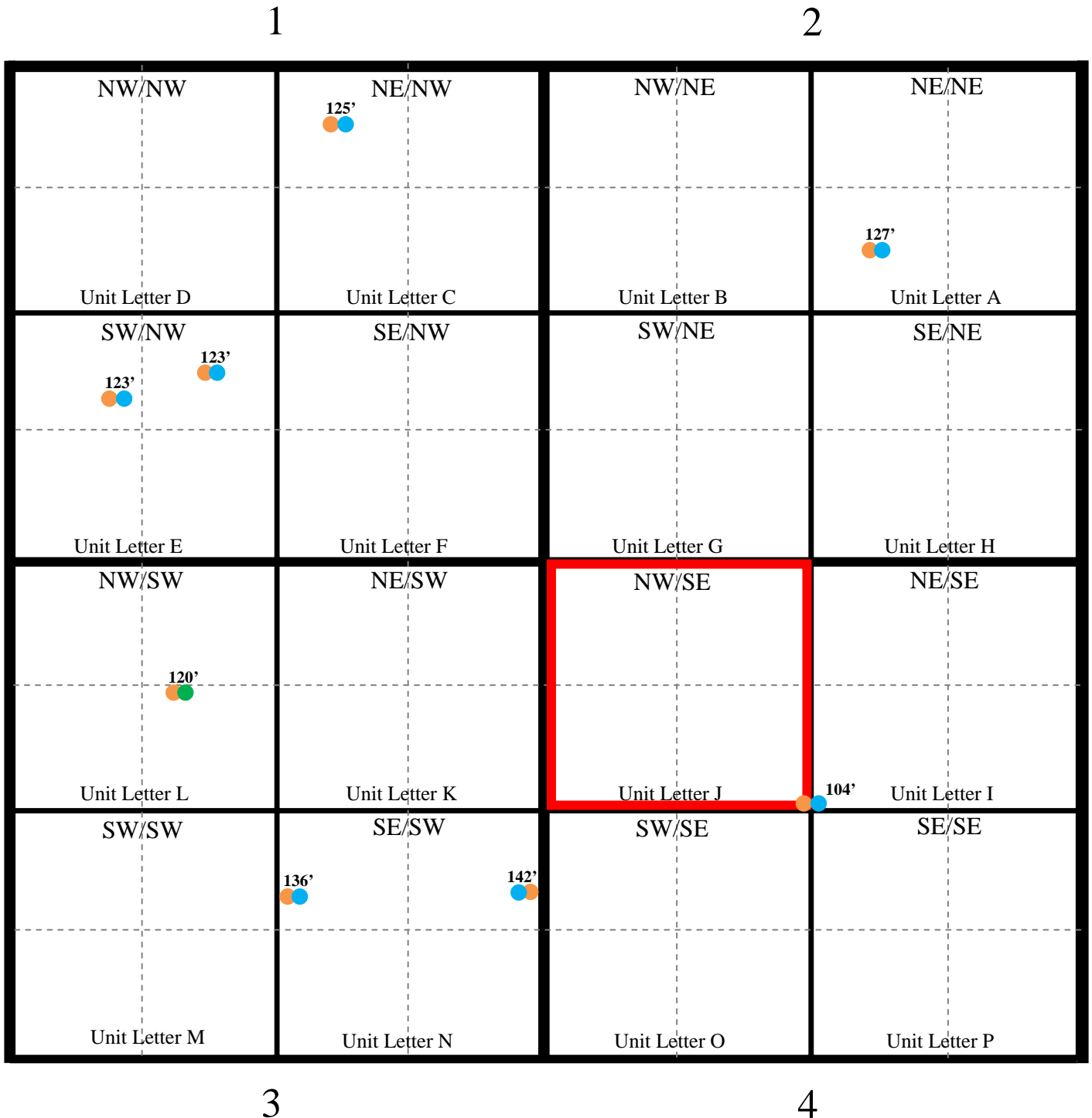
SEO

All Databases

# Oxy MLMU #71

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	J	36	23S	36E

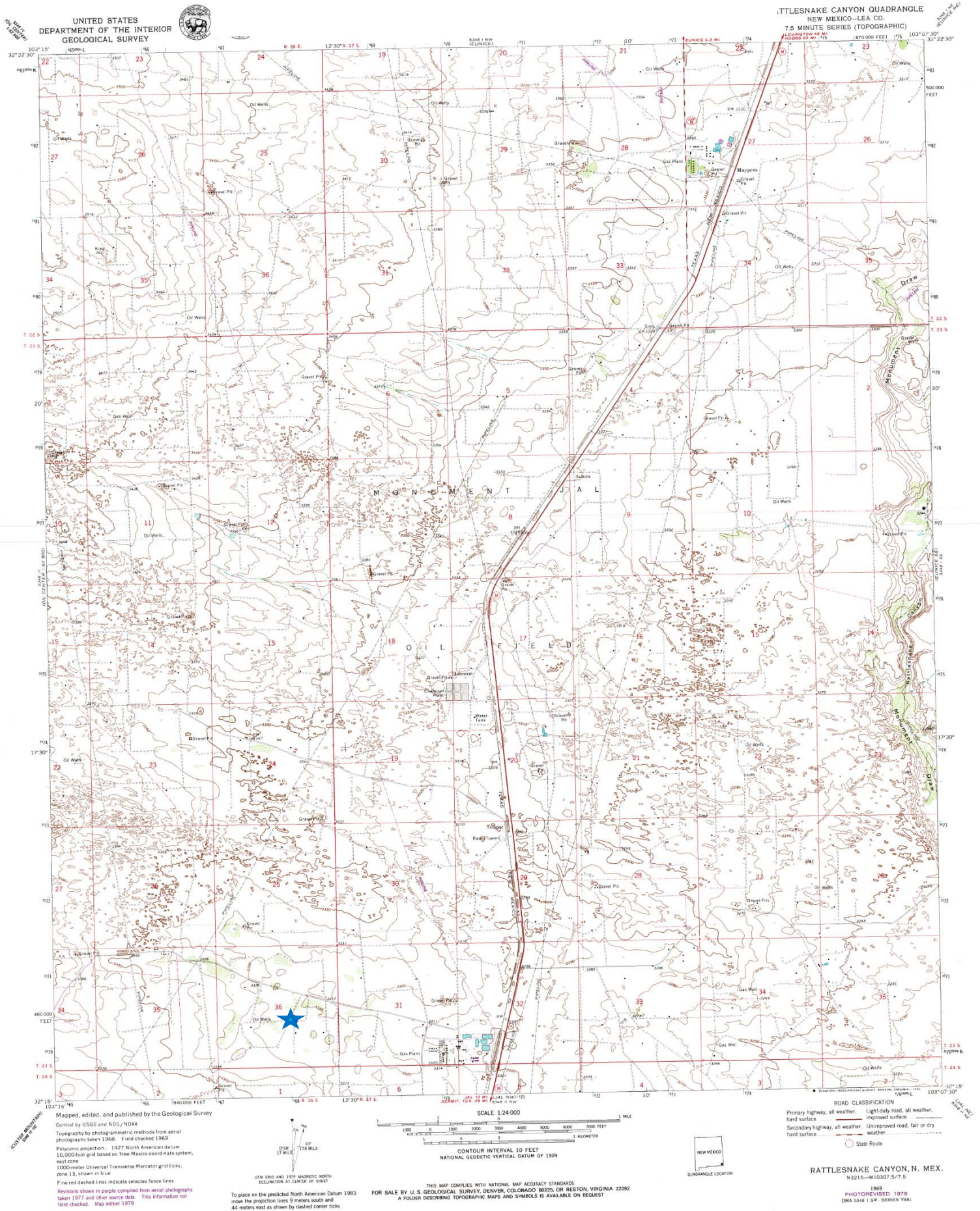
## Trend Map 125'





# Oxy

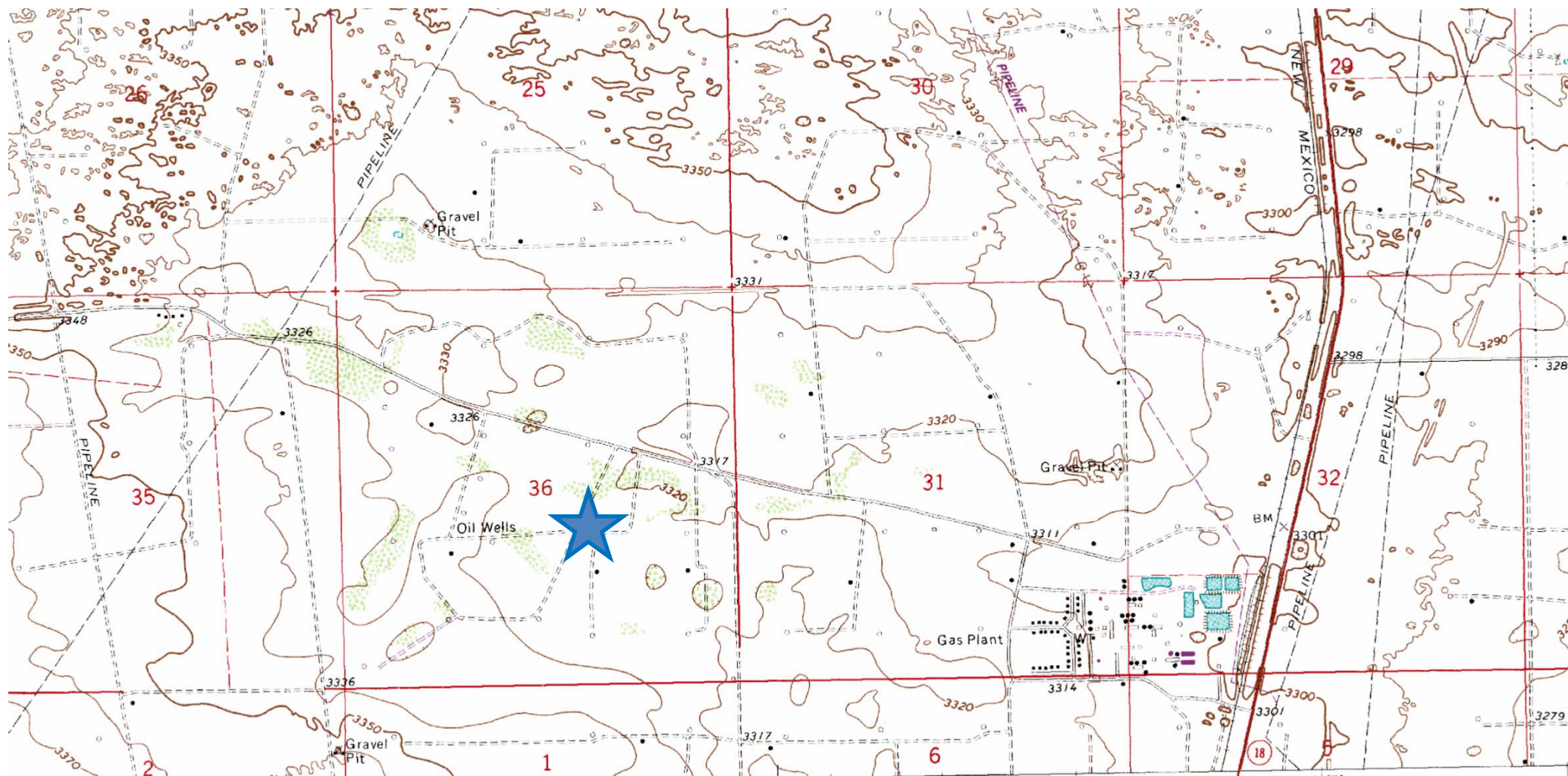
## MLMU #71





Oxy

## MLMU #71





**Laboratory Analytical Results Summary**  
**MLMU #71**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	5/9/14	5/9/14	5/9/14	5/9/14	5/9/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>480</b>	<b>704</b>	<b>912</b>	<b>464</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	5/9/14	5/9/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>192</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	5/9/14	5/9/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1040</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/9/14	5/9/14	5/9/14	5/9/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>496</b>	<b>624</b>	<b>384</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>928</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>192</b>	<b>16</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>688</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

May 19, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #71

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 12:32.

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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H401448-01)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 97.9 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H401448-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 4' (H401448-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 6' (H401448-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 7' (H401448-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 2 @ 1' (H401448-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/15/2014	ND	400	100	400	0.00	

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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H401448-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/15/2014	ND	400	100	400	0.00	

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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H401448-08)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 97.1 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 106 % 65.2-140  
Surrogate: 1-Chlorooctadecane 107 % 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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H401448-09)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/15/2014	ND	400	100	400	0.00		

**Sample ID: SP 4 @ 1' (H401448-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 2' (H401448-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 3' (H401448-12)**

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	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 4' (H401448-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2014	ND	400	100	400	0.00	

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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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H401448-14)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 96.5 % 61.3-142  
Surrogate: Toluene-d8 98.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 114 % 65.2-140  
Surrogate: 1-Chlorooctadecane 118 % 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: 05/13/2014  
 Reported: 05/19/2014  
 Project Name: MLMU #71  
 Project Number: NONE GIVEN  
 Project Location: DEEP WELLS ROAD

 Sampling Date: 05/12/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H401448-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/15/2014	ND	416	104	400	0.00		

**Sample ID: SP 6 @ 1' (H401448-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/15/2014	ND	416	104	400	0.00	

**Sample ID: SP 6 @ 2' (H401448-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2014	ND	416	104	400	0.00	

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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H401448-18)**

BTX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 99.8 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 106 % 65.2-140  
Surrogate: 1-Chlorooctadecane 105 % 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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 2' (H401448-19)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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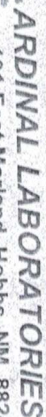
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Celey D. Keene, Lab Director/Quality Manager









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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#54

2/2



## Kathy Purvis

---

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Tuesday, July 01, 2014 2:42 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OCD Concurrence with Various OXY Remediation Plans

Cliff

The OCD concurs with the :

- 1) OXY-State C Trac 11 Battery-Remediation Plan
- 2) OXY-Fred Turner JR B Battery-Remediation Plan
- 3) OXY-Federal 27 #8-Remediation Plan
- 4) OXY-MLMU #98-Remediation Plan
- 5) OXY-South Mattix Battery-Remediation Plan
- 6) OXY-MLMU Satellite #2-Remediation Plan
- 7) OXY-MLMU #71-Remediation Plan

Approval of the Red Tank 35 Fed #3 Remediation Plan is dependent on your response regarding the excavation depth at SP2 and SP3. Thanks Cliff.

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

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, June 26, 2014 8:30 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-State C Trac 11 Battery-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet in the area around SP1, 1 foot in the areas of SP2 and SP3, 2 feet in the area of SP4, and 1 foot in the areas of SP5 and SP6 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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

\*\*\*\*\*

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\*\*\*\*\*

## Kathy Purvis

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Thursday, June 26, 2014 8:19 PM  
**To:** Jennifer Van Curen  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-MLMU #71-Remediation Plan  
**Attachments:** Remediation Packet, MLMU #71.pdf

Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Oxy will excavate to a depth of 1 foot in the entire leak areas as depicted on the attached site diagram except in the area of SP1, the excavation will be to a depth of 4 feet and the area around SP4 will be excavated to a depth of 2 feet. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

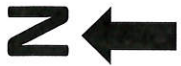
Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

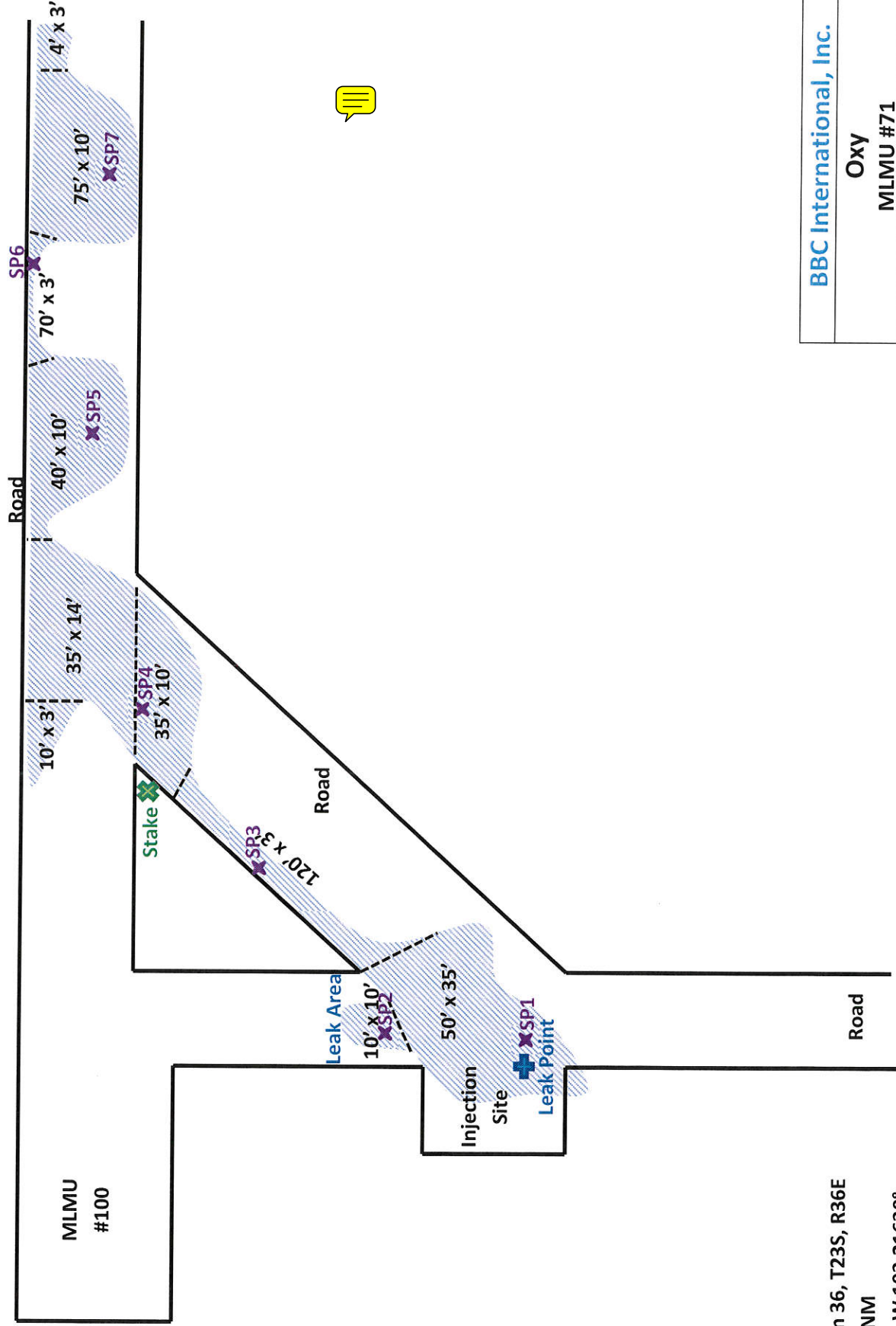
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\*\*\*\*\*





Oxy  
MLMU #71



U/L J, Section 36, T23S, R36E  
Lea County, NM  
N 32.25922° W 103.21630°

BBC International, Inc.		
Oxy		
MLMU #71		
Date: 04/21/2014	DRWG by: K. Purvis	
NOT TO SCALE	File: Oxy 2014	

# Groundwater Plot

Oxy MLMU #71

County  
Lea

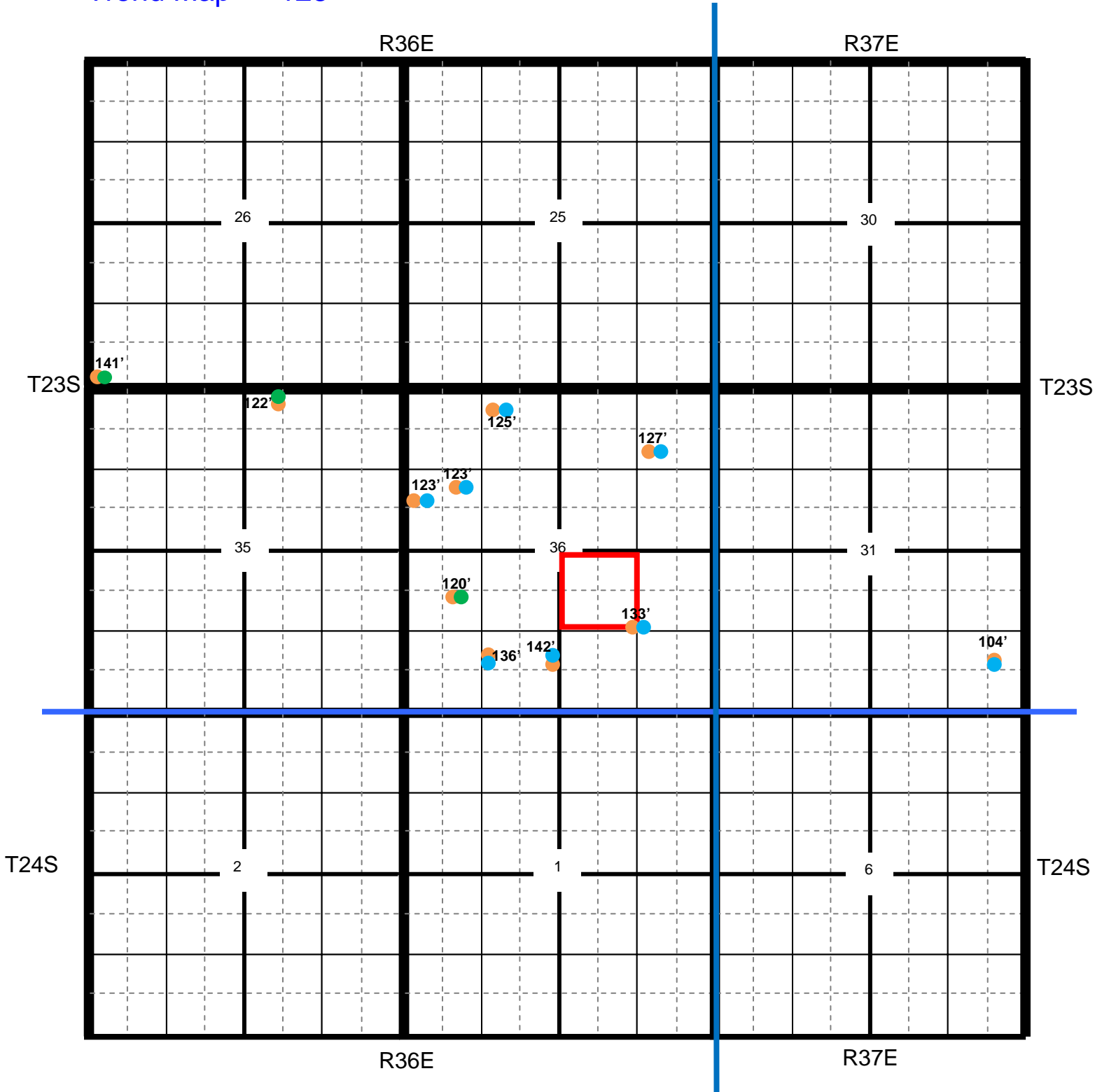
Unit Letter  
J

Section  
36

Township  
23S

Range  
36E

Trend Map 125'



Location

OCD

USGS

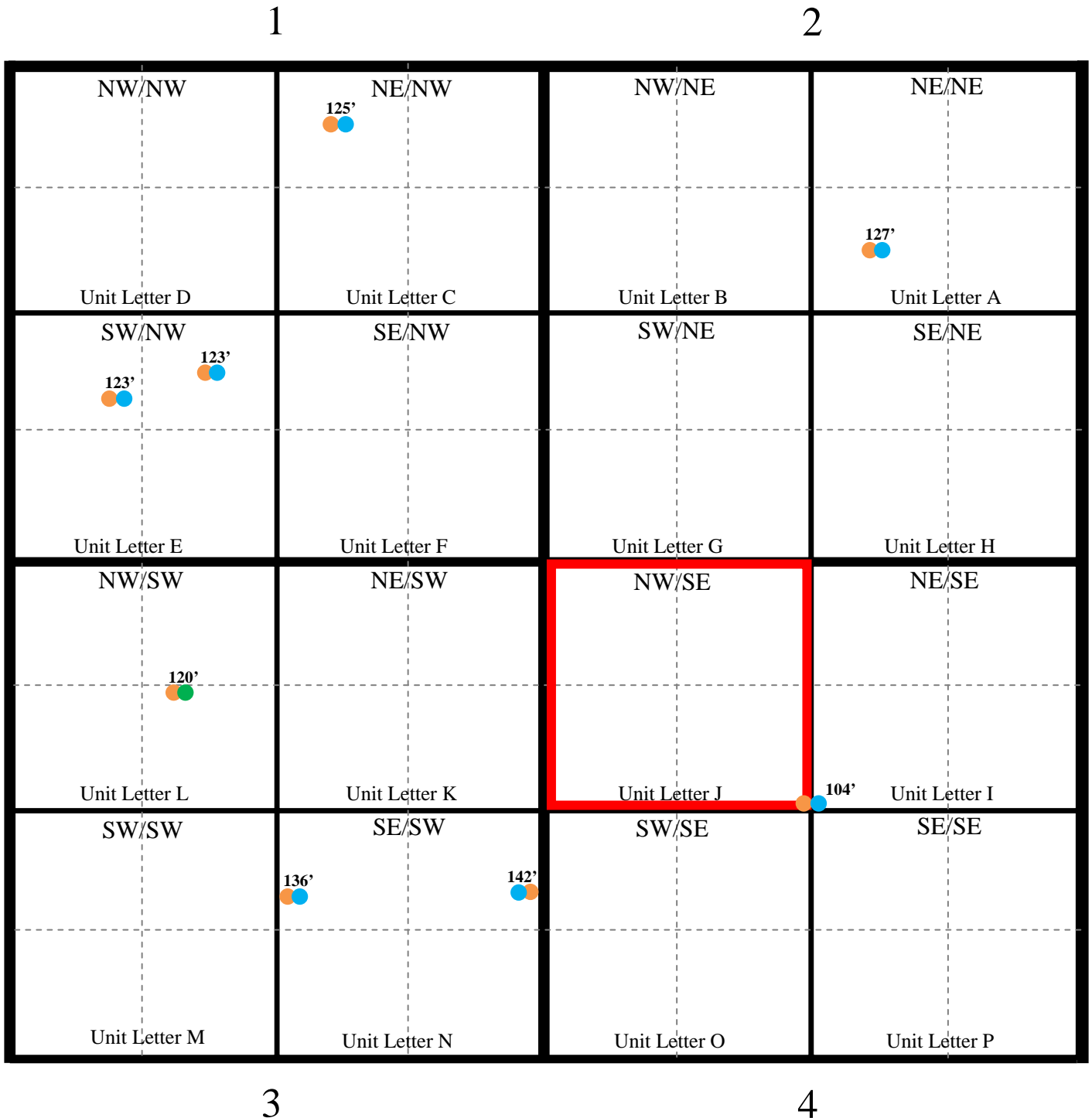
SEO

All Databases

# Oxy MLMU #71

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	J	36	23S	36E

## Trend Map 125'



**Laboratory Analytical Results Summary  
MLMU #71**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	5/9/14	5/9/14	5/9/14	5/9/14	5/9/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>480</b>	<b>704</b>	<b>912</b>	<b>464</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	5/9/14	5/9/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>192</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	5/9/14	5/9/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1040</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/9/14	5/9/14	5/9/14	5/9/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>496</b>	<b>624</b>	<b>384</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>928</b>	<16.0
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		n/a	n/a
<b>Toluene</b>	BTEX 8021B		n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>192</b>	<b>16</b>
<b>GRO</b>	TPH 8015M		n/a	n/a
<b>DRO</b>	TPH 8015M		n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	5/12/14	5/12/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>688</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a

May 19, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #71

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 12:32.

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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H401448-01)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTEX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 97.9 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 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: 05/13/2014  
 Reported: 05/19/2014  
 Project Name: MLMU #71  
 Project Number: NONE GIVEN  
 Project Location: DEEP WELLS ROAD

 Sampling Date: 05/09/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H401448-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 4' (H401448-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 6' (H401448-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 7' (H401448-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 2 @ 1' (H401448-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/15/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H401448-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/15/2014	ND	400	100	400	0.00	

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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H401448-08)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 97.1 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	05/15/2014	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	05/16/2014	ND	203	101	200	4.36	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	230	115	200	6.27	

Surrogate: 1-Chlorooctane 106 % 65.2-140  
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/09/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H401448-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 1' (H401448-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 2' (H401448-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 3' (H401448-12)**

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	05/15/2014	ND	400	100	400	0.00	

**Sample ID: SP 4 @ 4' (H401448-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2014	ND	400	100	400	0.00	

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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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H401448-14)**

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2014	ND	2.28	114	2.00	0.684	
Toluene*	<0.050	0.050	05/16/2014	ND	2.23	112	2.00	3.55	
Ethylbenzene*	<0.050	0.050	05/16/2014	ND	2.07	104	2.00	3.35	
Total Xylenes*	<0.150	0.150	05/16/2014	ND	6.30	105	6.00	2.33	
Total BTX	<0.300	0.300	05/16/2014	ND					

Surrogate: Dibromofluoromethane 96.5 % 61.3-142  
Surrogate: Toluene-d8 98.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 114 % 65.2-140  
Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H401448-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/15/2014	ND	416	104	400	0.00		

**Sample ID: SP 6 @ 1' (H401448-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/15/2014	ND	416	104	400	0.00	

**Sample ID: SP 6 @ 2' (H401448-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H401448-18)**

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 99.8 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 106 % 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: 05/13/2014  
Reported: 05/19/2014  
Project Name: MLMU #71  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 05/12/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 2' (H401448-19)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	05/15/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager









# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO												ANALYSIS REQUEST													
Project Manager: Cliff Brunson		Company:																											
Address: P.O. Box 805		Attn:																											
City: Hobbs		Address:																											
Phone #: 575-397-6388		City:																											
Fax #: 575-397-0397		State:																											
Project #:		Zip:																											
Project Name: MUMC # 71		Project Owner: OXY																											
Project Location: Deep Wells Rd		State:																											
Sample Name: Left Ornel/25		Phone #:																											
FOR LAB USE ONLY		Fax #:																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX						PRESERV.		SAMPLING													
								GROUNDWATER																					
								WASTEWATER																					
								SOIL																					
								OIL																					
								SLUDGE																					
								OTHER:																					
								ACID/BASE:																					
								ICE / COOL																					
								OTHER:																					
								DATE																					
								TIME																					
H4D1448		SP4E2		CL		1		5-9						259				CL -											
11		SP4E3		CL		1		5-9						320				TPH											
12		SP4E4		CL		1		5-9						340				BTEX											
13		SP5E1		CL		1		5-12						944															
14		SP5E2		CL		1		1001																					
15		SP6E1		CL		1		1051																					
16		SP6E2		CL		1		1130																					
17		SP7E1		CL		1		138																					
18		SP7E2		CL		1		222																					
19																													
Relinquished By:		Date:		5/13/14		Time:		8:00am		Received By:		Date:		3/13/14		Time:		12:33		CHECKED BY:		1.86		#54					
Relinquished By:		Date:		5/13/14		Time:		8:00am		Received By:		Date:		3/13/14		Time:		12:33		CHECKED BY:		1.86		#54					
Delivered By: (Circle One)		Date:		5/13/14		Time:		8:00am		Received By:		Date:		3/13/14		Time:		12:33		CHECKED BY:		1.86		#54					
Sampler - UPS - Bus - Other:		Date:		5/13/14		Time:		8:00am		Received By:		Date:		3/13/14		Time:		12:33		CHECKED BY:		1.86		#54					



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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #71 CTB	Facility Type	Battery
Surface Owner	Kelly Myers	Mineral Owner	
		API No.	30-025-10901(nearest well)

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	31	23S	37E					Lea

Latitude N 32.26219° Longitude W 103.2074°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	100 bbls	Volume Recovered	50 bbls
Source of Release	1" stainless steel injection line caused by stress/fatigue at remote header	Date and Hour of Occurrence	04/08/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD, Jennifer Van Curen-BLM		
By Whom?	Jennifer Gilkey	Date and Hour	04/09/2014 @ 5:24 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.\*

Stress on a 1" stainless steel injection line at a remote header caused a leak of 100 bbls of produced water to spill onto the ground. A vacuum truck recovered 50 bbls of produced water and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 8' x 650' on and off location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4-15-14	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary