

**RECEIVED**

By JKeyes at 9:25 am, Mar 21, 2016

## Closure Report

**APPROVED**

## Site Description

Site Name:	MLMU #141
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 5, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.25021° W 103.19031°

## Release Data

Date of Release:	11/13/2014
Type of Release:	Produced water
Source of Release:	Injection line lead
Volume of Release:	300 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the areas around SP1 and SP2 to a depth of 3 feet and install a clay liner. Excavate the area around SP3 to a depth of 3 feet. Surface scrape the rest of the spill area. Backfill the site with clean soil.	
Remediation Activities:	01/25/2016 to 03/08/2016	
Plan Sent to OCD:	09/26/2015	Email from Cliff Brunson to Jamie Keyes
OCD Approval of Plan:	09/30/2015	Email from Jamie Keyes to Cliff Brunson
Plan Sent to BLM:	09/26/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	10/05/2015	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 11/21/2014
Final C-141	Signed 03/11/2016
Site Diagram	November 2014
Groundwater Plot	100'
TOPO Maps	November 2014
Lab Summary	02/11/2015-02/16/2015 and 08/11/2015-08/12/2015
Lab Analysis	02/11/2015-02/16/2015 and 08/11/2015-08/12/2015
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

03/14/2016

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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #141	Facility Type	Well/Injection
Surface Owner	Federal	Mineral Owner	
		API No.	30-025-11027

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	24S	37E					Lea County, NM

Latitude N 32.24815° Longitude W 103.19522°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	300 bbls	Volume Recovered	0 bbls
Source of Release	Leak in injection line	Date and Hour of Occurrence	11/13/2014	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?	Tomas Oberding- NMOCD, Sol Hughes- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	11/14/2014 @ 11:29 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.\*

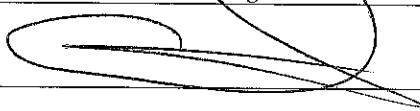
Describe Cause of Problem and Remedial Action Taken.\*

A leak in an injection line spilled 300 bbls of produced water onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 50' off location. Remediation will be completed in accordance with a remediation plan approved by 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 Advisor	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>11-21-14</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  
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	MLMU #141	Facility Type	Well/Injection
Surface Owner	Federal	Mineral Owner	
		API No.	30-025-11027

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	6	24S	37E					Lea County, NM

Latitude N 32.24815° Longitude W 103.19522°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	300 bbls	Volume Recovered	0 bbls
Source of Release	Leak in injection line	Date and Hour of Occurrence	11/13/2014	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?	Tomas Oberding- NMOCD, Sol Hughes- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	11/14/2014 @ 11:29 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.\*

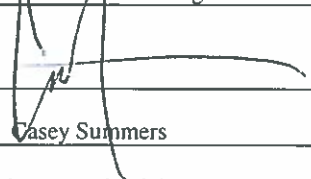

Describe Cause of Problem and Remedial Action Taken.\*

A leak in an injection line spilled 300 bbls of produced water onto the ground. No fluids were recovered and the line was repaired/replaced.

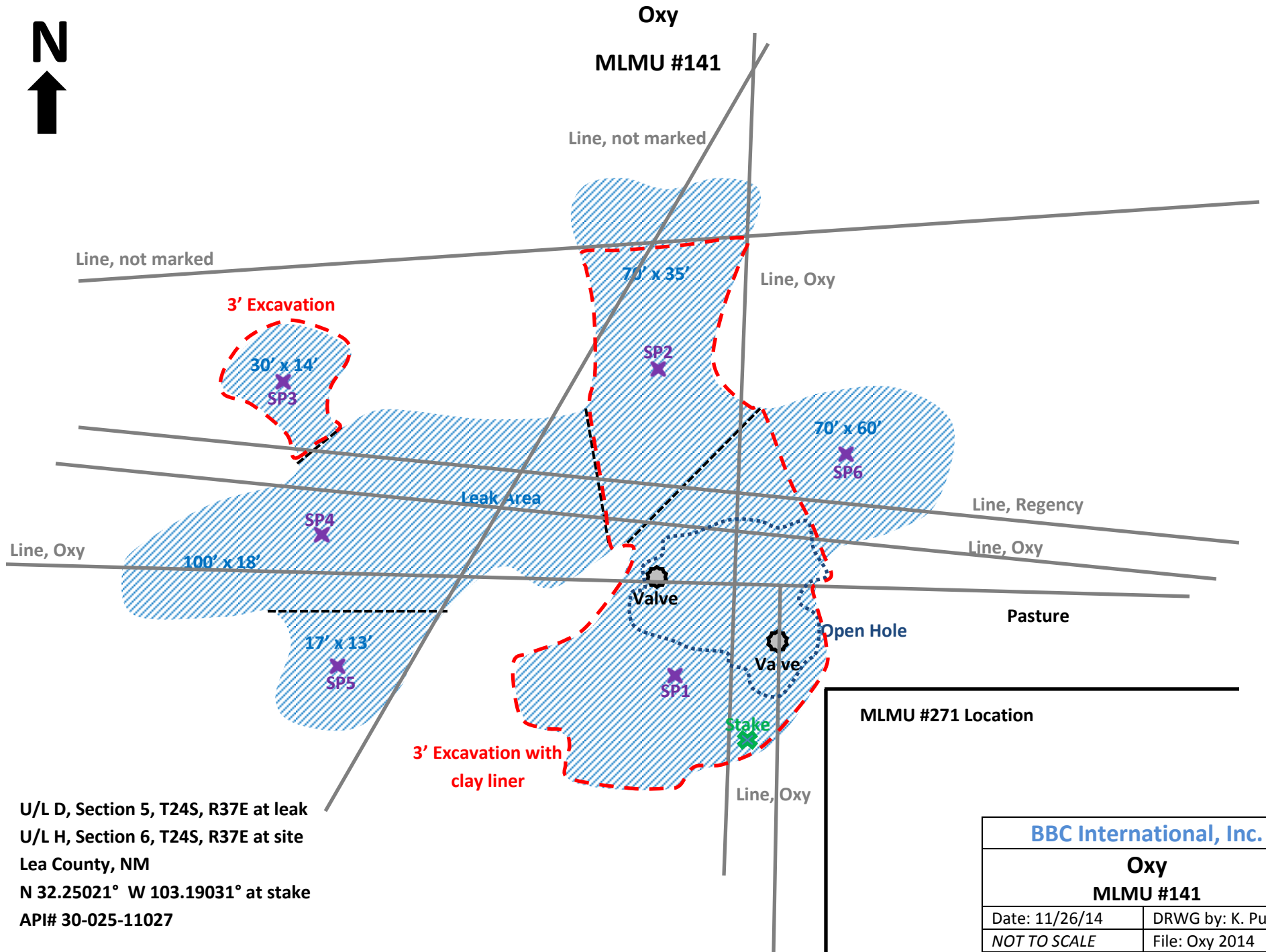
Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 50' off location. Remediation was completed in accordance with the remediation plan approved by Jamie Keyes of NMOCD via email on 09/30/2015 and approved by Shelly Tucker of the BLM via email on 10/05/2015.

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

Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Casey Summers		Approved by Environmental Specialist: 	
Title: NM Environmental Advisor		Approval Date: 03/21/2016	Expiration Date: ///
E-mail Address: Casey.Summers@oxy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-11-16 Phone: (575) 513-8289		///	1RP 3434

\* Attach Additional Sheets If Necessary



# Groundwater Plot

Oxy MLMU #141

County  
Lea

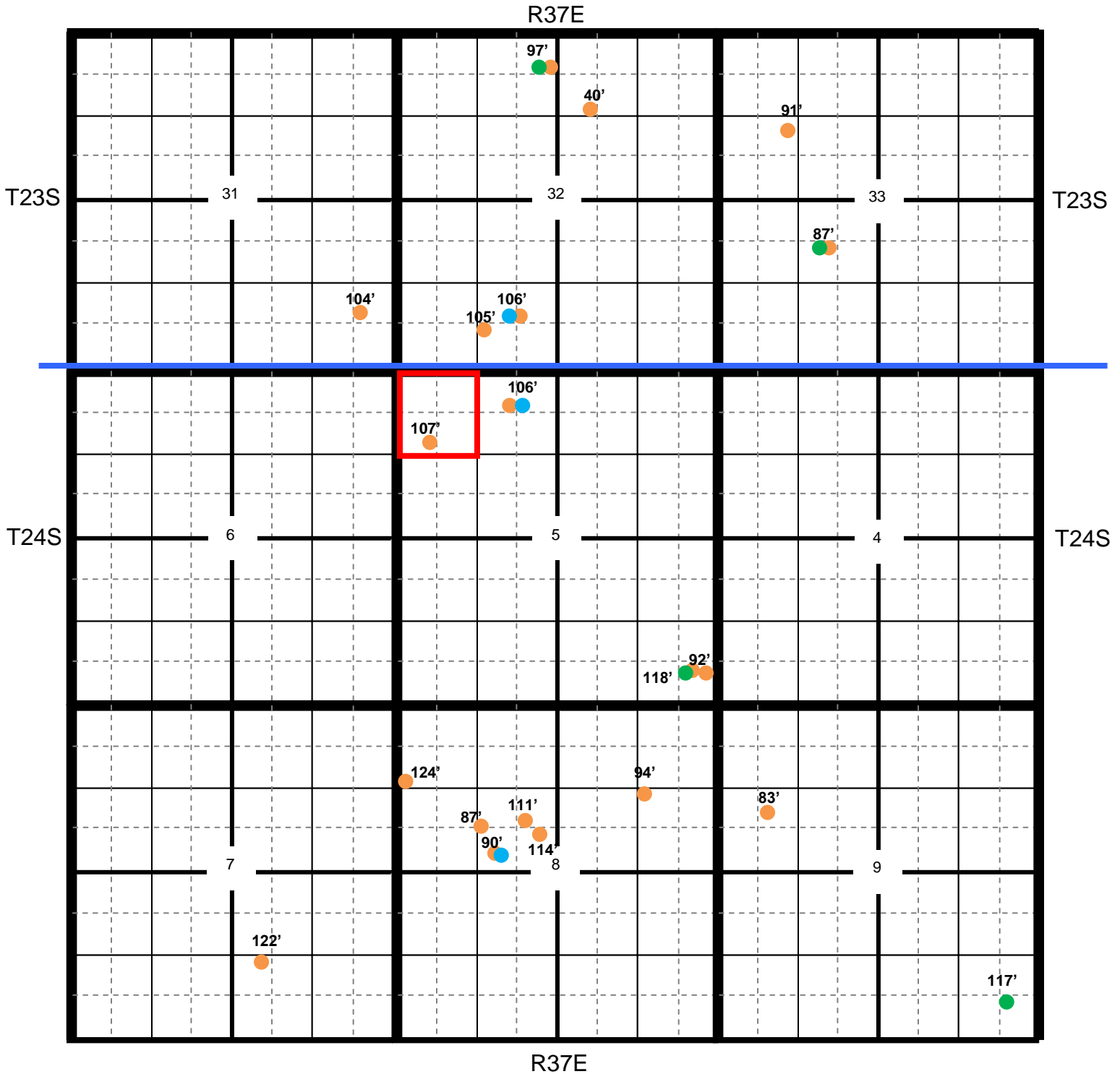
Unit Letter  
D

Section  
5

Township  
24S

Range  
37E

Trend Map 100'



Location

OCD

USGS

SEO

All Databases

Section Quarters

Oxy MLMU #141

County  
Lea

Unit Letter  
D

Section  
5

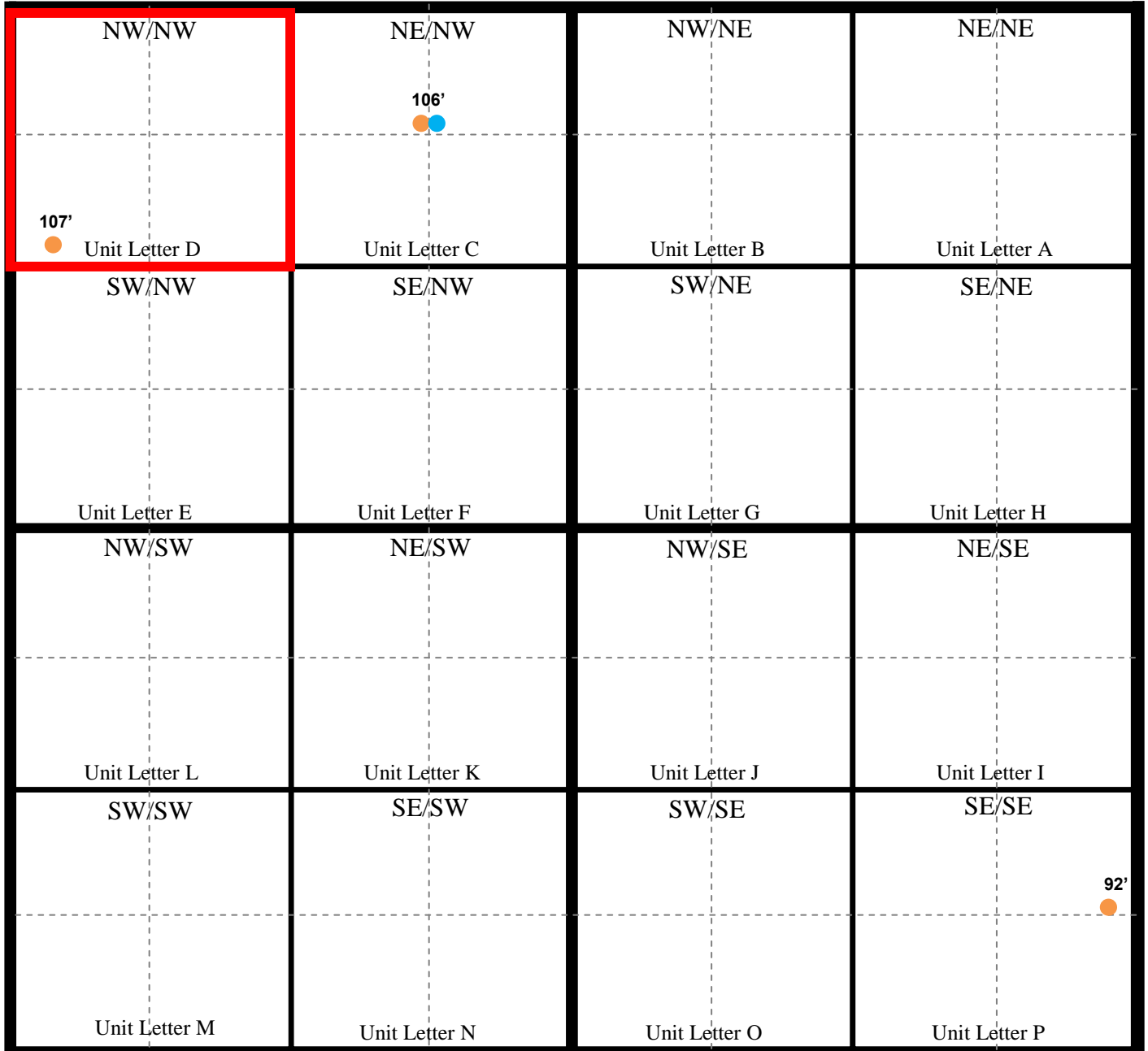
Township  
24S

Range  
37E

Trend Map 100'

1

2



3

4

Location

OCD

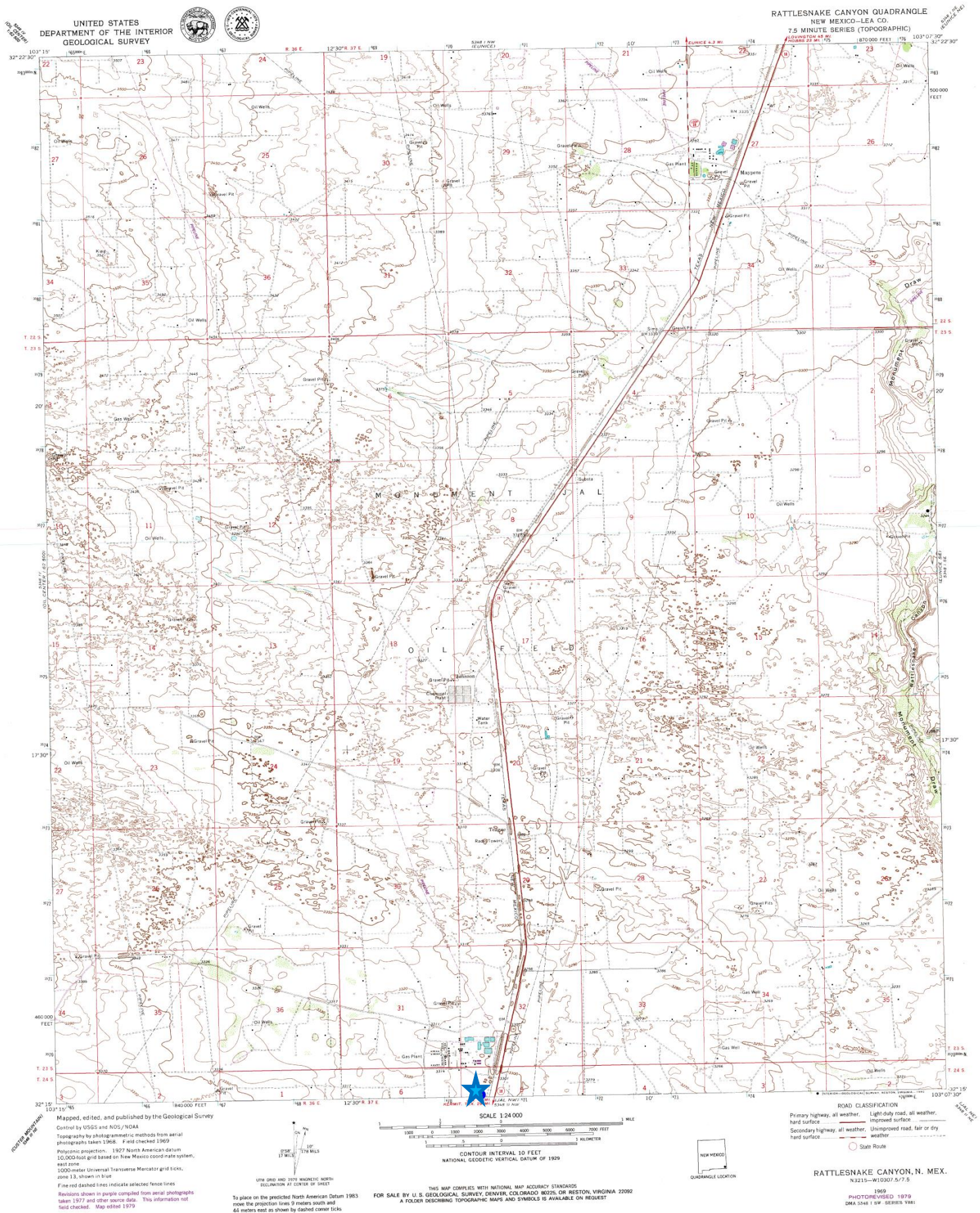
USGS

SEO

All Databases

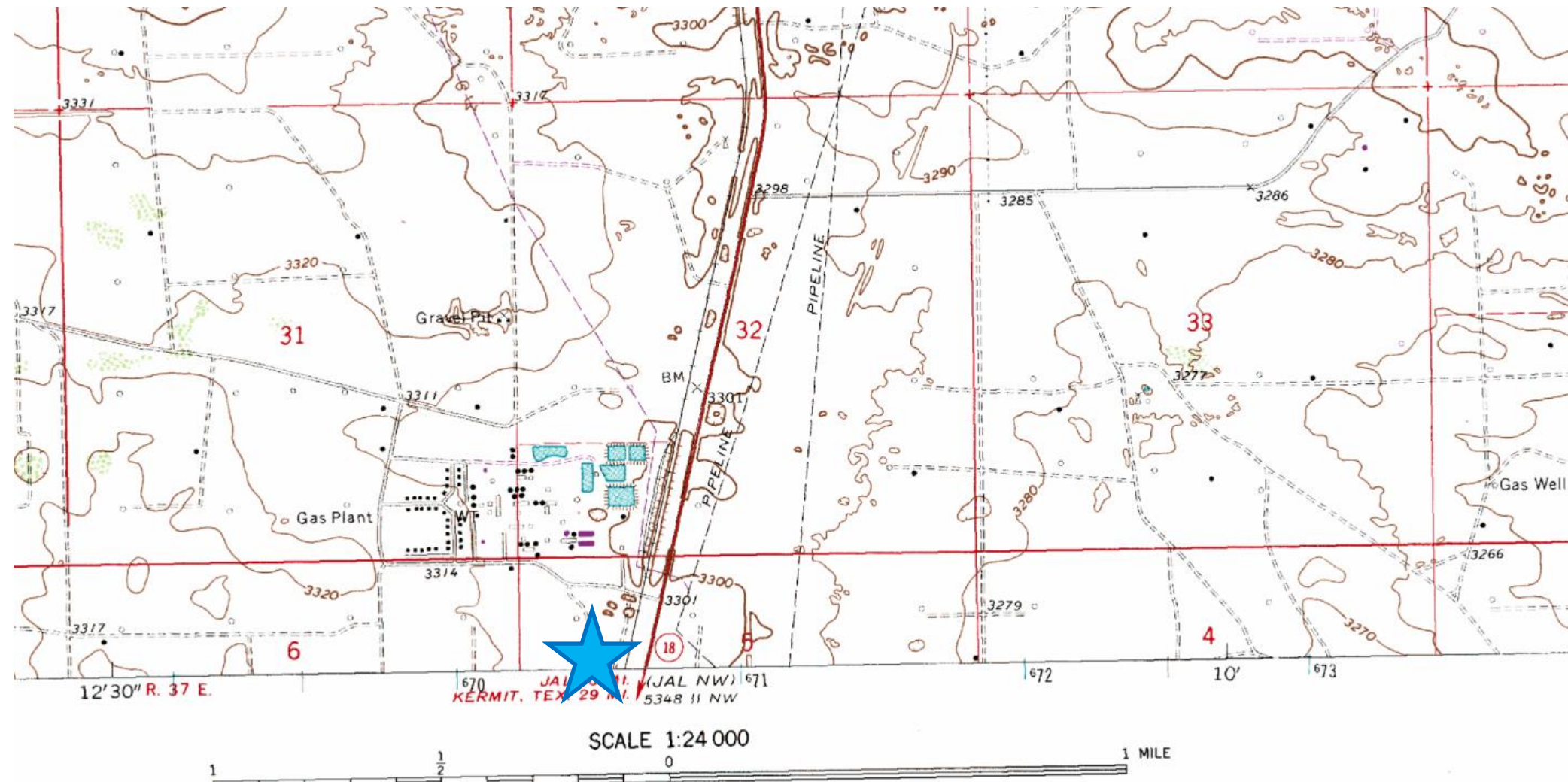
Oxy

## MLMU #141



Oxy

MLMU #141



**Laboratory Analytical Results Summary  
MLMU #141**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 8'	SP1 @ 11'	SP1 @ 13'	SP1 @ 15'
Analyte	Method	Date	2/11/15	2/11/15	2/12/15	2/12/15	2/12/15	2/12/15	2/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		368	1020	784	1800	1250	656	48

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 9'	SP2 @ 13'
Analyte	Method	Date	2/12/15	2/12/15	2/13/15	2/13/15	2/13/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		800	992	752	1710	1220

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	2/16/15	2/16/15	2/16/15	2/16/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		944	1070	240	<16.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/11/15	8/11/15	8/11/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		592	<16.0	<16.0

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	8/11/15	8/11/15	8/11/15	8/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1090	<16.0	<16.0	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	8/12/15	8/12/15
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0



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

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February 23, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #141

Enclosed are the results of analyses for samples received by the laboratory on 02/18/15 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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: 02/18/2015  
Reported: 02/23/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/11/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H500470-01)**

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	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 3' (H500470-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 6' (H500470-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 8' (H500470-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	02/18/2015	ND	416	104	400	3.77	

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: 02/18/2015  
Reported: 02/23/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/12/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H500470-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	02/18/2015	ND	416	104	400	3.77		

**Sample ID: SP 1 @ 13' (H500470-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 15' (H500470-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 1' (H500470-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 3' (H500470-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/18/2015	ND	416	104	400	3.77	

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: 02/18/2015  
Reported: 02/23/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/13/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6' (H500470-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 9' (H500470-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 13' (H500470-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 1' (H500470-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/18/2015	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 3' (H500470-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	02/18/2015	ND	416	104	400	3.77	

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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: 02/18/2015  
Reported: 02/23/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: JAL, NM

Sampling Date: 02/16/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H500470-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/18/2015	ND	416	104	400	3.77		

**Sample ID: SP 3 @ 6' (H500470-16)**

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	02/18/2015	ND	416	104	400	3.77	

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\*=Accredited Analyte

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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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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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: MIMV #141

Project Location: 121

Sampler Name: Left One 125

FOR LAB USE ONLY

### BILL TO

### ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

H50047D

SP 101

03

06

08

011

013

015

SP 101

03

06

01

01

01

01

01

01

01

01

01

01

01

01

01

01

01

01

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

DATE TIME

2-11 215

2-11 300

2-12 915

2-12 1010

2-12 1111

2-12 1130

2-12 1153

2-12 1333

2-12 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

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2-13 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

2-13 1338

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By: [Signature]

Received By: Ramon Montoya

Date: 2-18-15

Time: 2:18:15

Relinquished By: [Signature]

Received By: Ramon Montoya

Date: 2-18-15

Time: 2:18:15

Relinquished By: [Signature]

Received By: Ramon Montoya

Date: 2-18-15

Date: 2-18-15

Time: 2:18:15

Relinquished By: [Signature]

Received By: Ramon Montoya

Date: 2-18-15

Time: 2:18:15

Relinquished By: [Signature]

Sample Condition

Cool ☐ Yes ☐ No

Intact ☐ Yes ☐ No

Checked By: [Signature]

Initials: [Signature]

Signature: [Signature]

Signature: [Signature]

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

#54



**CARDINAL 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.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: mmy #1410xy

Project Location: 121

Sampler Name: Jeff Arnold

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H50047D

11 SP209  
12 SP2013  
13 SP301  
14 SP303  
15 CS  
16 CB

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

2-13 11:13  
2-13 3:00  
2-16 10:10  
11-12 1:00  
200

MATRIX

PRESERV

SAMPLING

**BILL TO**

**ANALYSIS REQUEST**

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

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Relinquished By:

Date: 2-18-15

Received By:

Relinquished By:

Date: 2/18/15

Received By:

Receivd By: Ramon Montoya

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 2-18-15

Received By:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

#54

August 18, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #141

Enclosed are the results of analyses for samples received by the laboratory on 08/13/15 9:07.

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: 08/13/2015  
Reported: 08/18/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 08/11/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H502107-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/17/2015	ND	416	104	400	0.00		

**Sample ID: SP 4 @ 1' (H502107-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/17/2015	ND	432	108	400	0.00		

**Sample ID: SP 4 @ 2' (H502107-03)**

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	08/17/2015	ND	432	108	400	0.00		

**Sample ID: SP 5 @ SURFACE (H502107-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/17/2015	ND	432	108	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: 08/13/2015  
Reported: 08/18/2015  
Project Name: MLMU #141  
Project Number: NONE GIVEN  
Project Location: DEEP WELLS ROAD

Sampling Date: 08/11/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H502107-05)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 2' (H502107-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 3' (H502107-07)**

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	08/17/2015	ND	432	108	400	0.00	

**Sample ID: SP 6 @ SURFACE (H502107-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/17/2015	ND	432	108	400	0.00		

**Sample ID: SP 6 @ 1' (H502107-09)**

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	08/17/2015	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BCB International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		Attn:					
City: Hobbs		State: NM		Zip: 88241			
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: (Cliff Brunson)			
Project #:		Project Owner: OXY		City:			
Project Name: MUM-14		State:		Zip:			
Project Location: Deep Wells Road		Phone #:					
Sample Name: West Ranch		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE / COOL					
		OTHER:					
Lab I.D. H502107		Sample I.D.		DATE		TIME	
		SP40SP2HACE		8-11		11	
		SP50SP2HACE		8-11		130	
		SP60SP2HACE		8-11		132	
		SP70SP2HACE		8-11		130	
		SP80SP2HACE		8-11		130	
		SP90SP2HACE		8-11		130	
		SP100SP2HACE		8-11		130	
		SP110SP2HACE		8-11		130	
		SP120SP2HACE		8-11		130	
		SP130SP2HACE		8-11		130	
		SP140SP2HACE		8-11		130	
		SP150SP2HACE		8-11		130	
		SP160SP2HACE		8-11		130	
		SP170SP2HACE		8-11		130	
		SP180SP2HACE		8-11		130	
		SP190SP2HACE		8-11		130	
		SP200SP2HACE		8-11		130	
		SP210SP2HACE		8-11		130	
		SP220SP2HACE		8-11		130	
		SP230SP2HACE		8-11		130	
		SP240SP2HACE		8-11		130	
		SP250SP2HACE		8-11		130	
		SP260SP2HACE		8-11		130	
		SP270SP2HACE		8-11		130	
		SP280SP2HACE		8-11		130	
		SP290SP2HACE		8-11		130	
		SP300SP2HACE		8-11		130	
		SP310SP2HACE		8-11		130	
		SP320SP2HACE		8-11		130	
		SP330SP2HACE		8-11		130	
		SP340SP2HACE		8-11		130	
		SP350SP2HACE		8-11		130	
		SP360SP2HACE		8-11		130	
		SP370SP2HACE		8-11		130	
		SP380SP2HACE		8-11		130	
		SP390SP2HACE		8-11		130	
		SP400SP2HACE		8-11		130	
		SP410SP2HACE		8-11		130	
		SP420SP2HACE		8-11		130	
		SP430SP2HACE		8-11		130	
		SP440SP2HACE		8-11		130	
		SP450SP2HACE		8-11		130	
		SP460SP2HACE		8-11		130	
		SP470SP2HACE		8-11		130	
		SP480SP2HACE		8-11		130	
		SP490SP2HACE		8-11		130	
		SP500SP2HACE		8-11		130	
		SP510SP2HACE		8-11		130	
		SP520SP2HACE		8-11		130	
		SP530SP2HACE		8-11		130	
		SP540SP2HACE		8-11		130	
		SP550SP2HACE		8-11		130	
		SP560SP2HACE		8-11		130	
		SP570SP2HACE		8-11		130	
		SP580					

## Kathy Purvis

---

**From:** Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>  
**Sent:** Wednesday, September 30, 2015 2:56 PM  
**To:** Cliff Brunson; Jones, Kellie, EMNRD; Shelly Tucker  
**Cc:** Dusty Wilson; Jennifer\_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY - MLMU #141 - Remediation Plan

Good afternoon,

The work plan is approved. Ensure BLM concurrence/approval.

Thank you,

Jamie

---

**From:** Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, September 26, 2015 2:50 PM  
**To:** Jones, Kellie, EMNRD; Shelly Tucker  
**Cc:** Keyes, Jamie, EMNRD; Oberding, Tomas, EMNRD; Dusty Wilson; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - MLMU #141 - Remediation Plan

Kellie,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy MLMU #141. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

Shelly,

I am requesting BLM approval for the attached remediation plan for this site. Kellie Jones has agreed to this plan already.

If both of you would please reply back via e-mail with your concurrence on this 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:** Tucker, Shelly <stucker@blm.gov>  
**Sent:** Monday, October 05, 2015 12:28 PM  
**To:** Cliff Brunson  
**Cc:** Kellie Jones; Jamie Keyes; Tomas J. Oberding; Dusty Wilson; Jennifer\_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY - MLMU #141 - Remediation Plan

BLM approves your proposal and you are cleared for Arch in this area....

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist  
Bureau of Land Management

620 E. Greene St  
Carlsbad, NM 88220

575.234.5905 - Direct  
575.361.0084 - Cellular

[stucker@blm.gov](mailto:stucker@blm.gov)



On Sat, Sep 26, 2015 at 2:50 PM, Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:

Kellie,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy MLMU #141. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

Shelly,

I am requesting BLM approval for the attached remediation plan for this site. Kellie Jones has agreed to this plan already.

If both of you would please reply back via e-mail with your concurrence on this 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

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E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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