

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	Livingston Ridge 19 Federal #1CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-35960

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	19	22S	32E					Lea County, NM

Latitude N 32.382350° Longitude W 103.72136°

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	10 bbls	Volume Recovered	0 bbls
Source of Release	External corrosion on a 2" steel production flow line	Date and Hour of Occurrence	06/23/2014	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, Geoffrey Leking-NMOCD; Jennifer Van Curen- BLM		
By Whom?	Kathy Purvis	Date and Hour	06/23/2014 @ 2:20 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.\*

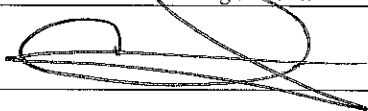
Describe Cause of Problem and Remedial Action Taken.\*

External corrosion on a 2" steel production flow line caused 10 bbls of oil to leak onto the ground. No fluids were recovered and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 10' x 10' on and off location. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/15/2014 and approved by Sol Hughes of the BLM via email on 10/15/2014.

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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist: Jocelyn Harimon		
Title: HES Specialist	Approval Date: 07/13/2023	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-7-15	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary

## Kathy Purvis

---

**From:** Hughes, Solomon <shughes@blm.gov>  
**Sent:** Tuesday, January 13, 2015 2:56 PM  
**To:** Oberding, Tomas, EMNRD  
**Cc:** Kathy Purvis; C J Summers; Susan Miller; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; jgilkey@bbcinternational.com  
**Subject:** Re: Closure Report, Livingston Ridge 19 Federal #1 CTB

Kathy,

Good to go.

Thanks,  
Sol

### Sol Hughes

Environmental Protection Division  
Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM

Office: 575.234.5951  
Cell: 575.499.3378

On Mon, Jan 12, 2015 at 12:20 PM, Oberding, Tomas, EMNRD <[Tomas.Oberding@state.nm.us](mailto:Tomas.Oberding@state.nm.us)> wrote:

Aloha Ms. Purvis, Mr. Hughes et al,

Thank you for sending this document.

Based on depth to groundwater, and sample results provided, OCD conditionally approves closure of this event based on the following stipulation-

- 1) Obtain concurrence from the BLM

Your RP for this event was

1RP-3173

Mahalo

-Doc

Tomáš 'Doc' Oberding, PhD

Hydrologist-Advanced

Oil Conservation Division, EMNRD

(575) 393-6161 ext 111

E-Mail: [tomas.oberding@state.nm.us](mailto:tomas.oberding@state.nm.us)

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.

---

**From:** Kathy Purvis [mailto:[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)]

**Sent:** Monday, January 12, 2015 11:52 AM

**To:** Oberding, Tomas, EMNRD

**Cc:** C J Summers; Susan Miller; [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com); [kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com);

[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)

**Subject:** Closure Report, Livingston Ridge 19 Federal #1 CTB

Attached is the closure report for a leak that occurred at the Livingston Ridge 19 Federal #1 CTB on 06/23/2014 in Lea County, NM. Receipt notification via email is greatly appreciated.

*Kathy Purvis*

BBC International, Inc.

1324 W. Marland

Hobbs, NM 88240

Phone: (575) 397-6388

Fax: (575) 397-0397

Email: [kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)

# Closure Report

## Site Description

Site Name:	Livingston Ridge 19 Federal #1 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 19, T22S, R32e
County:	Lea County, NM
GPS Coordinates:	N 32.38202° W 103.72176°

## Release Data

Date of Release:	06/23/2014
Type of Release:	Oil
Source of Release:	External corrosion on a 2" steel production flow line
Volume of Release:	10 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak site to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	12/17/2014 to 12/19/2014	
Plan Sent to OCD:	10/14/2014	Email from Cliff Brunson to Tomas Oberding
OCD Approval of Plan:	10/15/2014	Email from Tomas Oberding to Cliff Brunson
Plan Sent to BLM:	10/15/2014	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	10/15/2014	Email from Sol Hughes to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 07/10/2014
Final C-141	Signed 01/07/2015
Site Diagram	July 2014
Groundwater Plot	225'
TOPO Maps	July 2014
Lab Summary	09/02/2014
Lab Analysis	09/02/2014
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.

01/12/2015

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☒ Initial Report ☐ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Livingston Ridge 19 Federal #1CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-35960

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	19	22S	32E					Lea County, NM

Latitude N 32.382350° Longitude W 103.72136°

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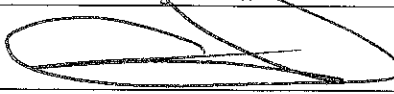
Describe Cause of Problem and Remedial Action Taken.\*

External corrosion on a 2" steel production flow line caused 10 bbls of oil to leak onto the ground. No fluids were recovered and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 10' x 10' on and 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 Specialist			Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	7-10-14			Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary

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Facility Name	Livingston Ridge 19 Federal #1CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-35960

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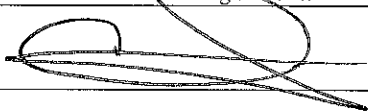
Describe Cause of Problem and Remedial Action Taken.\*

External corrosion on a 2" steel production flow line caused 10 bbls of oil to leak onto the ground. No fluids were recovered and the line was repaired or replaced.

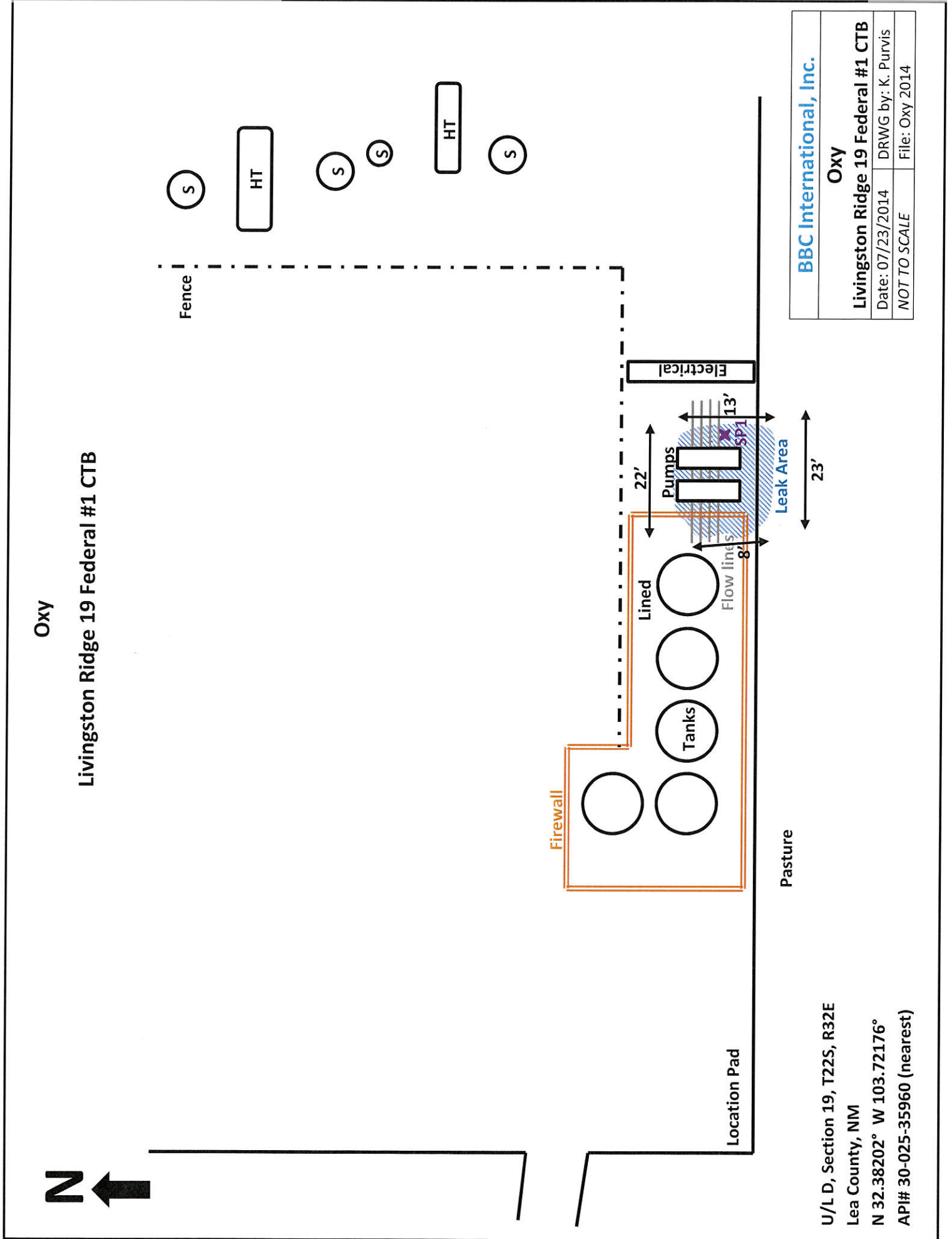
Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 10' x 10' on and off location. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/15/2014 and approved by Sol Hughes of the BLM via email on 10/15/2014.

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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <a href="mailto:Chancey.Summers@oxy.com">Chancey.Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-7-15	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



BBC International, Inc.	
Oxy	
Livingston Ridge 19 Federal #1 CTB	
Date: 07/23/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

U/L D, Section 19, T22S, R32E  
 Lea County, NM  
 N 32.38202° W 103.72176°  
 API# 30-025-35960 (nearest)



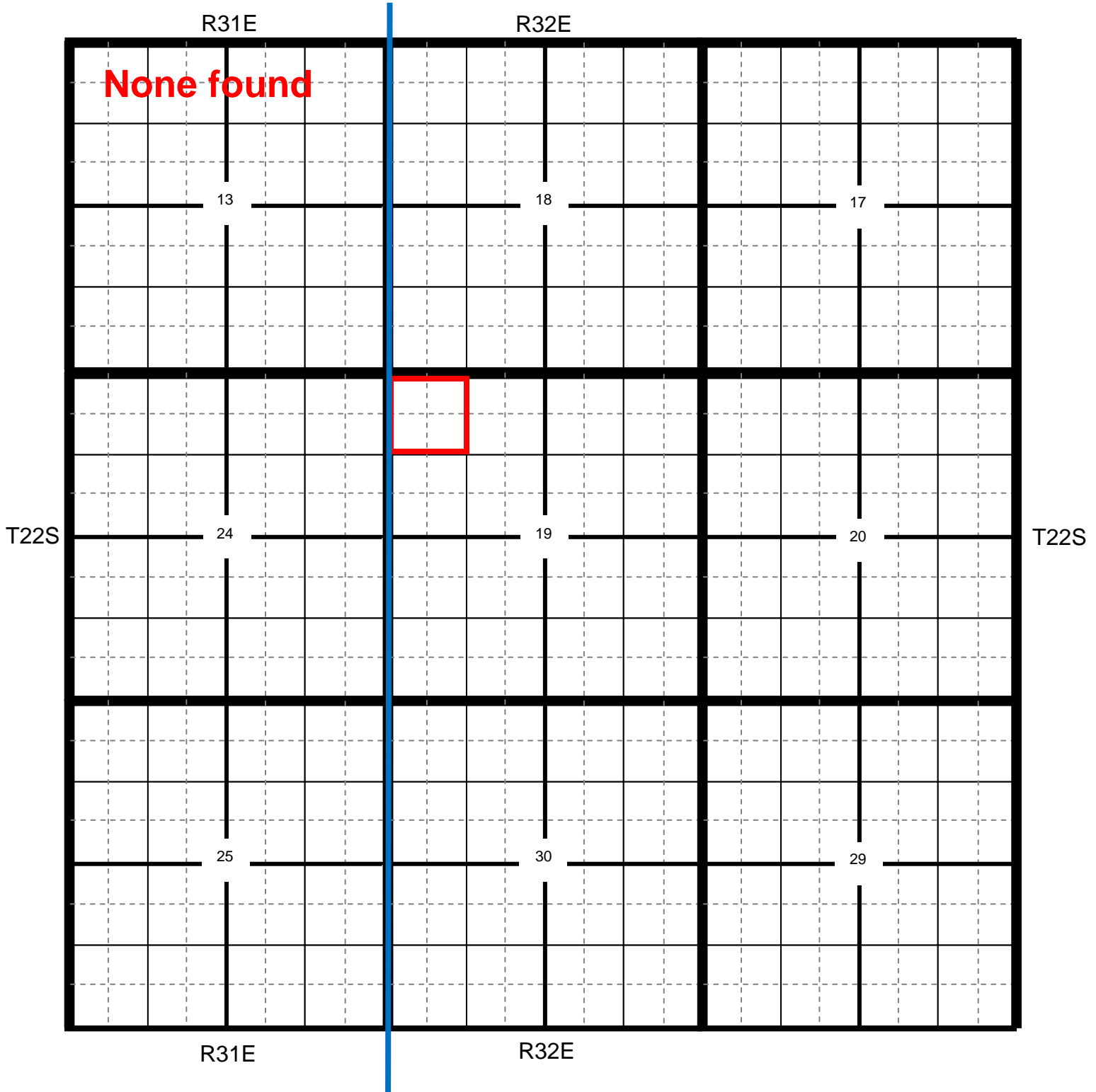


# Groundwater Plot

## Oxy Livingston 19 Federal #1 CTB

County	Unit Letter	Section	Township	Range
Lea	D	19	22S	32E

Trend Map 225'





## Section Quarters

## Oxy Livingston Ridge 19 Fed #1 CTB

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	D	19	22S	32E

Trend Map 225'

1

2

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

3

4

📍 Location

🟠 OCD

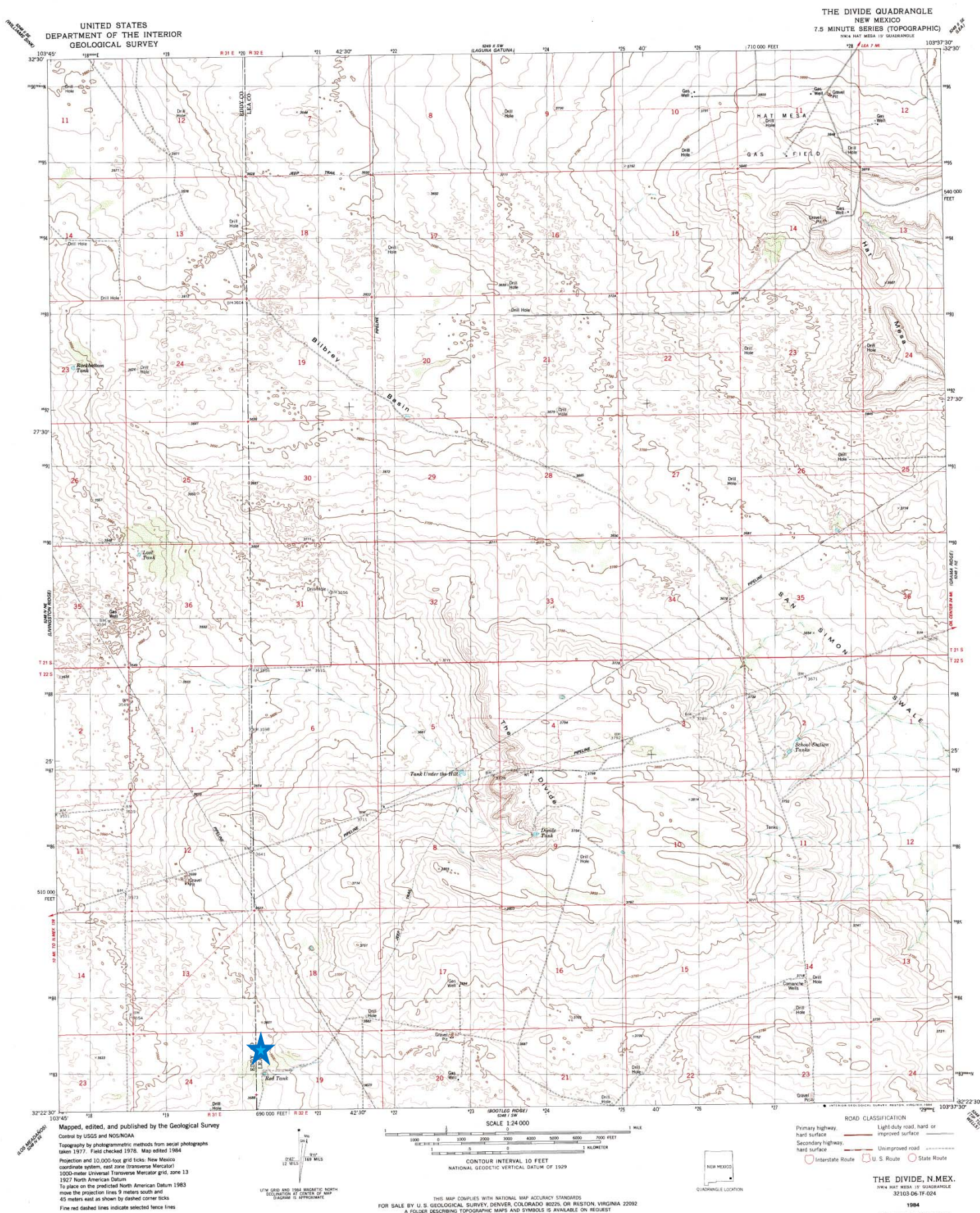
🟢 USGS

🟡 SEO

🟣 All Databases

Oxy

## Livingston Ridge 19 Fed #1 CTB





Oxy



**Laboratory Analytical Results Summary  
Livingston Ridge 19 Federal #1**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 8'
Analyte	Method	Date	9/2/14	9/2/14	9/2/14	9/2/14	9/2/14	9/2/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>1.95</b>	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.93</b>	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>11.4</b>	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>15.3</b>	<0.300	<0.300	<0.300	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<b>819</b>	<50.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>35100</b>	<b>1240</b>	<b>207</b>	<b>90.8</b>	<10.0	<b>38.8</b>



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

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September 11, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LIVINGSTON RIDGE 19 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 16:55.

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



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

**Analytical Results For:**

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ SURFACE (H402757-01)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4	
<b>Toluene*</b>	<b>1.95</b>	0.500	09/11/2014	ND	1.65	82.5	2.00	14.4	
<b>Ethylbenzene*</b>	<b>1.93</b>	0.500	09/11/2014	ND	1.73	86.7	2.00	14.7	
<b>Total Xylenes*</b>	<b>11.4</b>	1.50	09/11/2014	ND	5.36	89.3	6.00	14.8	
<b>Total BTEX</b>	<b>15.3</b>	3.00	09/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>819</b>	100	09/08/2014	ND	157	78.7	200	3.06		
<b>DRO &gt;C10-C28</b>	<b>35100</b>	100	09/08/2014	ND	182	90.8	200	10.2		

Surrogate: 1-Chlorooctane 164 % 65.2-140

Surrogate: 1-Chlorooctadecane 1720 % 63.6-154

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



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

**Analytical Results For:**

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ 1 (H402757-02)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4		
Toluene*	<0.050	0.050	09/11/2014	ND	1.65	82.5	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	14.7		
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.36	89.3	6.00	14.8		
Total BTEX	<0.300	0.300	09/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/08/2014	ND	157	78.7	200	3.06	
DRO >C10-C28	1240	50.0	09/08/2014	ND	182	90.8	200	10.2	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

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





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Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ 3 (H402757-03)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4		
Toluene*	<0.050	0.050	09/11/2014	ND	1.65	82.5	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	14.7		
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.36	89.3	6.00	14.8		
Total BTEX	<0.300	0.300	09/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

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	09/08/2014	ND	157	78.7	200	3.06		
DRO >C10-C28	207	10.0	09/08/2014	ND	182	90.8	200	10.2		

Surrogate: 1-Chlorooctane 94.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.0 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ 5 (H402757-04)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4		
Toluene*	<0.050	0.050	09/11/2014	ND	1.65	82.5	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	14.7		
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.36	89.3	6.00	14.8		
Total BTEX	<0.300	0.300	09/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

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	09/08/2014	ND	157	78.7	200	3.06	
DRO >C10-C28	90.8	10.0	09/08/2014	ND	182	90.8	200	10.2	

Surrogate: 1-Chlorooctane 94.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ 7 (H402757-05)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4		
Toluene*	<0.050	0.050	09/11/2014	ND	1.65	82.5	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	14.7		
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.36	89.3	6.00	14.8		
Total BTEX	<0.300	0.300	09/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 89.4-126

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	09/08/2014	ND	157	78.7	200	3.06	
DRO >C10-C28	<10.0	10.0	09/08/2014	ND	182	90.8	200	10.2	

Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/04/2014	Sampling Date:	09/02/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE 19 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - MILLS RANCH		

**Sample ID: SP 1 @ 8 (H402757-06)**

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	09/11/2014	ND	1.83	91.7	2.00	13.4		
Toluene*	<0.050	0.050	09/11/2014	ND	1.65	82.5	2.00	14.4		
Ethylbenzene*	<0.050	0.050	09/11/2014	ND	1.73	86.7	2.00	14.7		
Total Xylenes*	<0.150	0.150	09/11/2014	ND	5.36	89.3	6.00	14.8		
Total BTEX	<0.300	0.300	09/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 89.4-126

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	09/08/2014	ND	157	78.7	200	3.06		
<b>DRO &gt;C10-C28</b>	<b>38.8</b>	10.0	09/08/2014	ND	182	90.8	200	10.2		

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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### 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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager







## Kathy Purvis

---

**From:** Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>  
**Sent:** Wednesday, October 15, 2014 10:56 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; jamos@blm.gov; Robertson, Jeffery; Hughes, Solomon  
**Subject:** RE: OXY - Livingstone Ridge 19 Federal #1 CTB - Remediation Plan

Aloha Mr. Brunson et al,

Thank you for the concise work plan. Please consider this the OCD notice of receipt.

Based on depth to groundwater and sample results, OCD conditionally grants approval of the scope of work outlined in the email.

Conditions include:

- 1) BLM approval and concurrence with the work plan.

Please keep us informed as the situation warrants.

Mahalo for your help,

Doc

Tomáš 'Doc' Oberding, PhD  
Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240  
(O): (575) 393-6161 ext 111  
(C): 575-370-3180  
(F): (575) 393-0720  
E-Mail: [tomas.oberding@state.nm.us](mailto:tomas.oberding@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/oed/>

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Tuesday, October 14, 2014 7:14 PM  
**To:** Oberding, Tomas, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - Livingstone Ridge 19 Federal #1 CTB - Remediation Plan

Tomas,

This e-mail is to confirm our conversation on September 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 1 foot in the entire leak area as depicted on the attached site diagram. 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  
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1324 W. Marland St.  
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\*\*\*\*\*

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\*\*\*\*\*



**Kathy Purvis**

---

**From:** Hughes, Solomon <shughes@blm.gov>  
**Sent:** Wednesday, October 15, 2014 1:41 PM  
**To:** Oberding, Tomas, EMNRD  
**Cc:** Cliff P. Brunson; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; jamos@blm.gov; Robertson, Jeffery  
**Subject:** Re: OXY - Livingstone Ridge 19 Federal #1 CTB - Remediation Plan

Hello All,

This plan is approved as read.

Please, send all cleanup plans involving BLM lands and/or minerals to both the BLM and OCD, as the joint approval of both agencies is required for these cleanups.

Thanks,  
Sol

**Sol Hughes**

Environmental Protection Division  
Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM

Office: 575.234.5951  
Cell: 575.499.3378

On Wed, Oct 15, 2014 at 10:55 AM, Oberding, Tomas, EMNRD <[Tomas.Oberding@state.nm.us](mailto:Tomas.Oberding@state.nm.us)> wrote:

Aloha Mr. Brunson et al,

Thank you for the concise work plan. Please consider this the OCD notice of receipt.

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1) BLM approval and concurrence with the work plan.

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Mahalo for your help,

Doc

Tomáš 'Doc' Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division

Energy, Minerals and Natural Resources Department

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(F): (575) 393-0720

E-Mail: [tomas.oberding@state.nm.us](mailto:tomas.oberding@state.nm.us)

Website: <http://www.emnrd.state.nm.us/ocd/>

---

**From:** Cliff P. Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]

**Sent:** Tuesday, October 14, 2014 7:14 PM

**To:** Oberding, Tomas, EMNRD

**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** OXY - Livingstone Ridge 19 Federal #1 CTB - Remediation Plan

Tomas,

This e-mail is to confirm our conversation on September 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 1 foot in the entire leak area as depicted on the attached site diagram. 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

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\*\*\*\*\*

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\*\*\*\*\*

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Phone:(575) 393-6161 Fax:(575) 393-0720  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 194969

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 194969
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	7/13/2023