

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

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 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: 	OIL CONSERVATION DIVISION		
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

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.

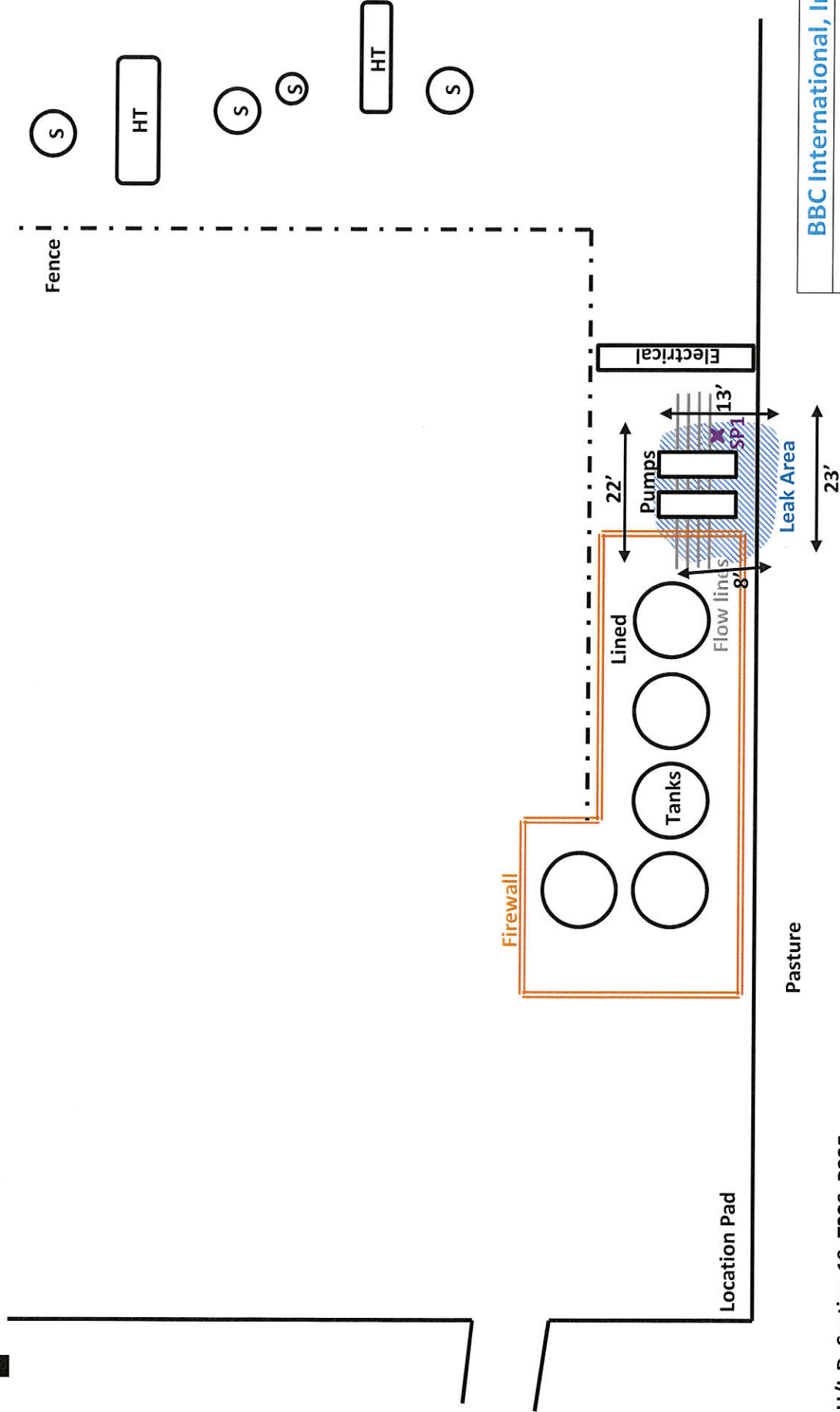
Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>1-7-15</u>	Phone: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

* Attach Additional Sheets If Necessary



Oxy

Livingston Ridge 19 Federal #1 CTB



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
Lea

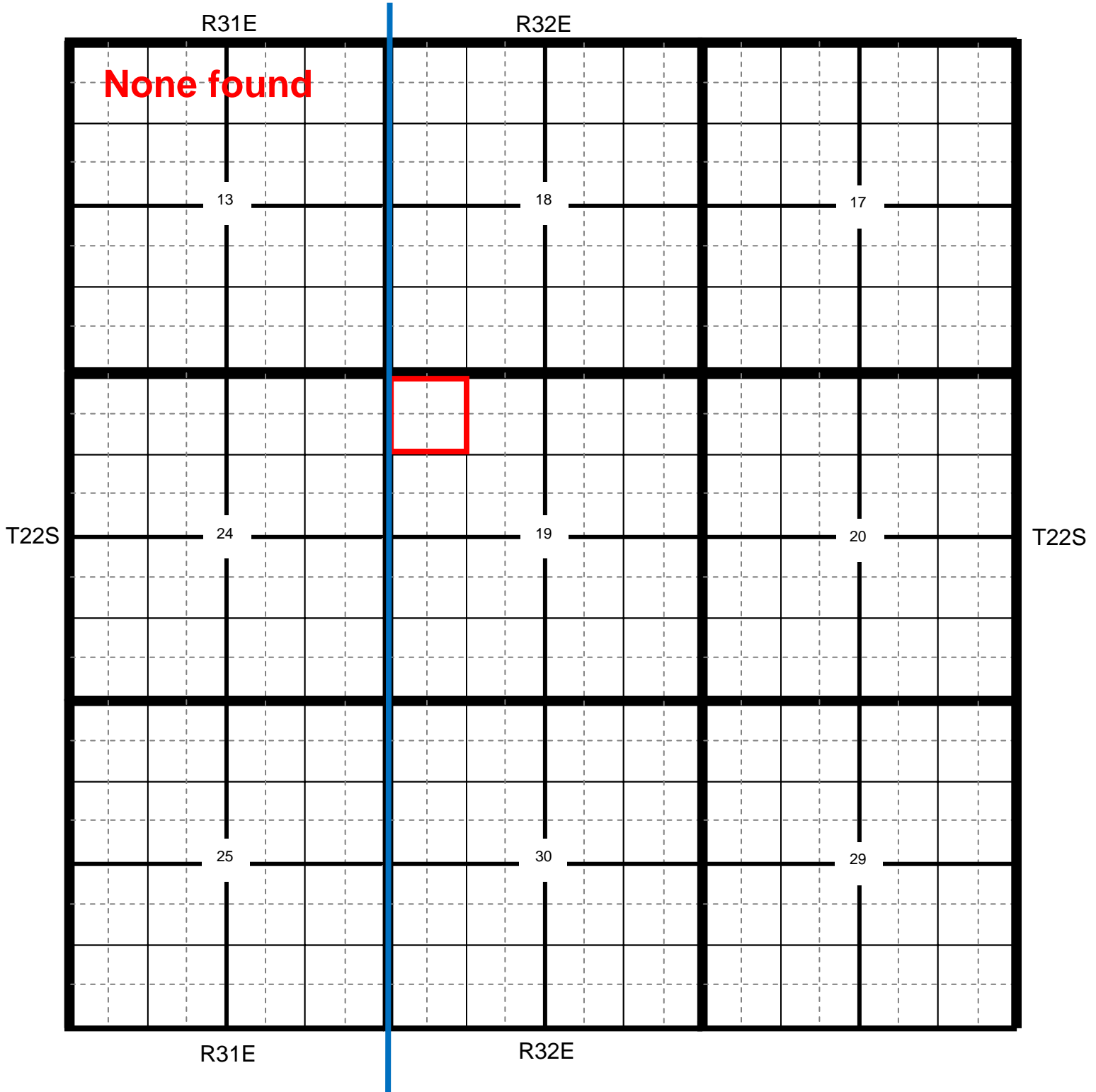
Unit Letter
D

Section
19

Township
22S

Range
32E

Trend Map 225'



Location

OCD

USGS

SEO

All Databases

Oxy Livingston Ridge 19 Fed #1 CTB

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

Trend Map 225'

1

2

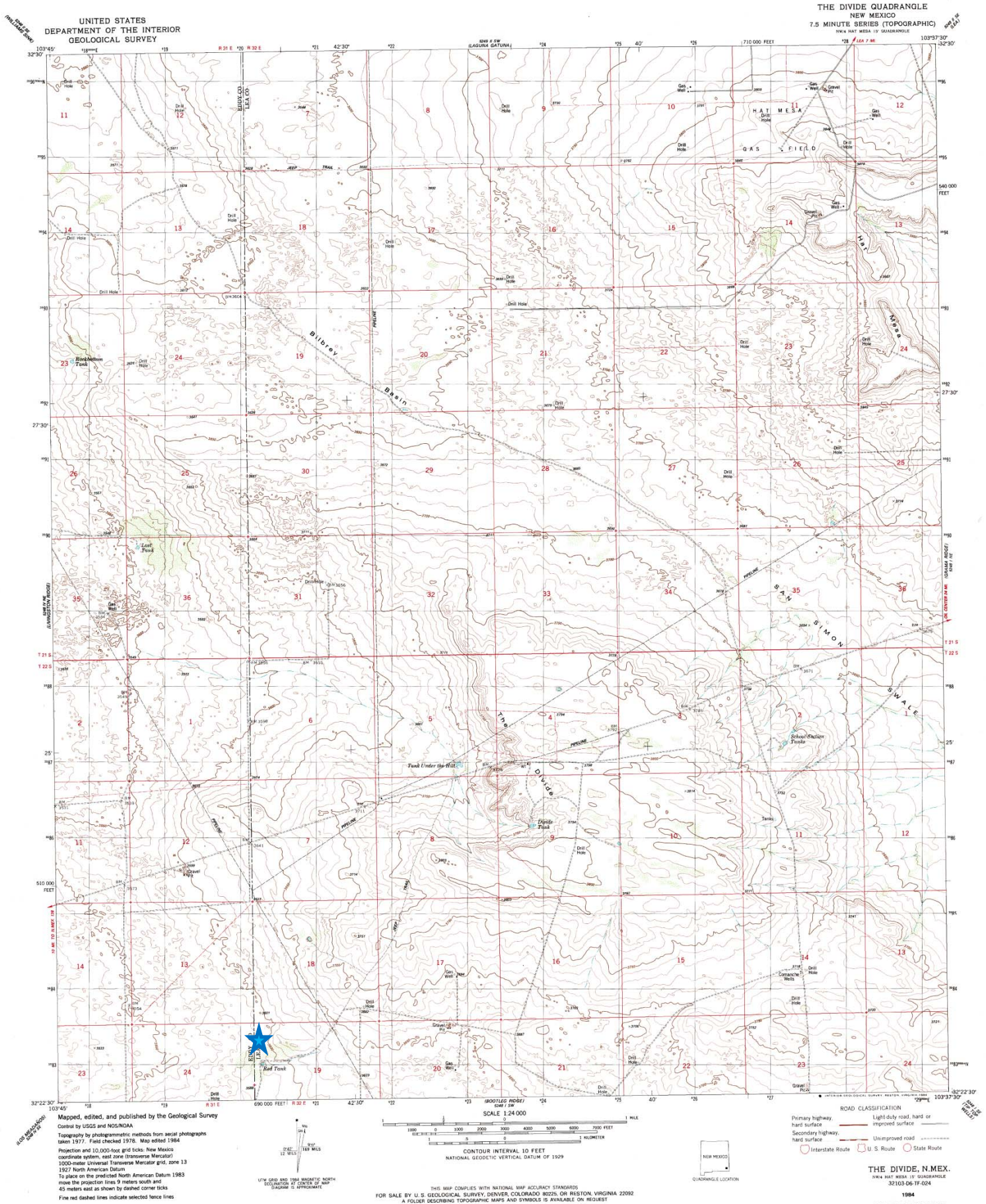
NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE None found	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE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

3

4

Oxy

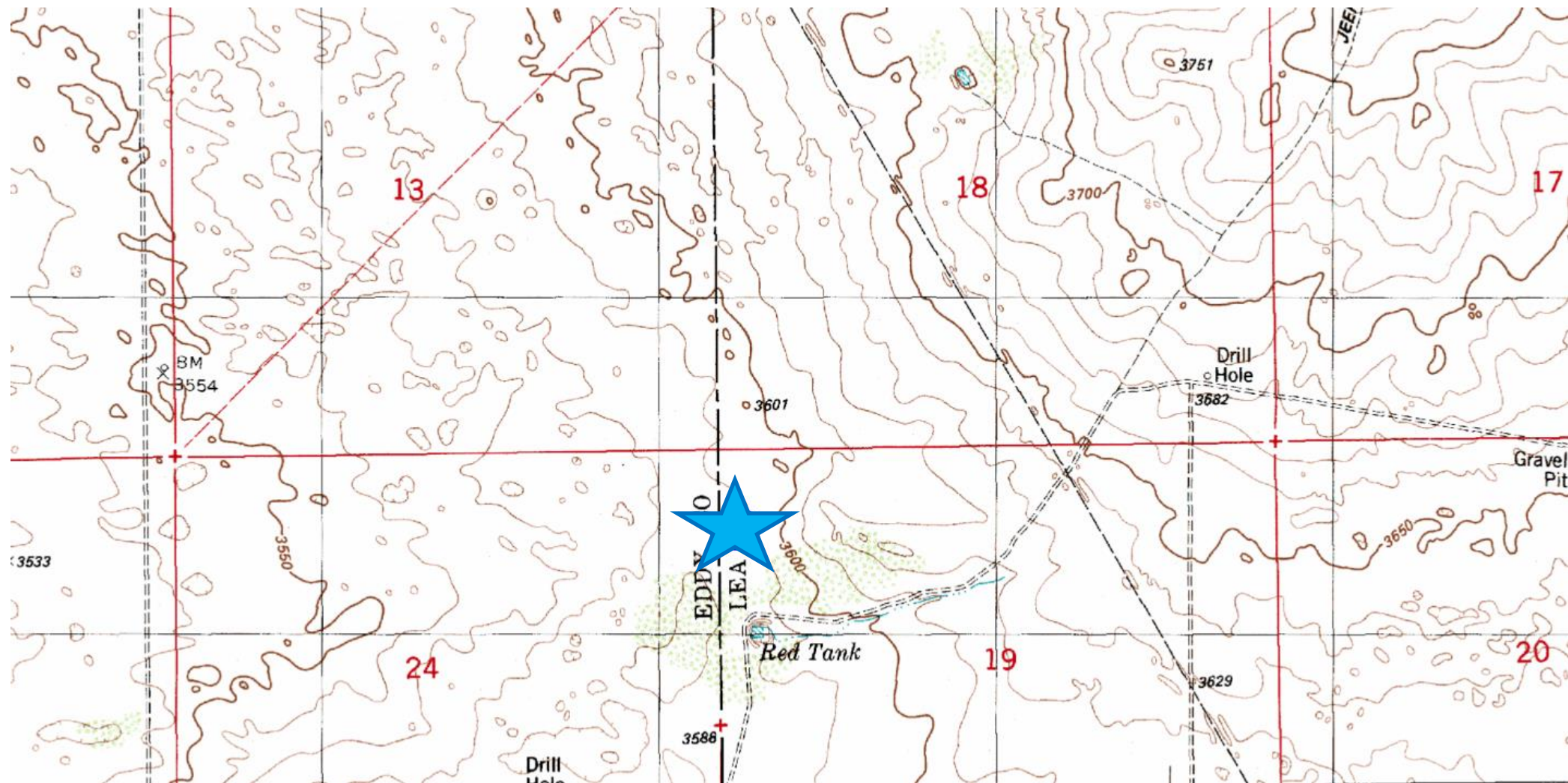
Livingston Ridge 19 Fed #1 CTB



Oxy

Livingston Ridge 19

Federal #1 CTB



**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
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.95	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.93	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		11.4	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		15.3	<0.300	<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		819	<50.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		35100	1240	207	90.8	<10.0	38.8



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

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.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	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	
Toluene*	1.95	0.500	09/11/2014	ND	1.65	82.5	2.00	14.4	
Ethylbenzene*	1.93	0.500	09/11/2014	ND	1.73	86.7	2.00	14.7	
Total Xylenes*	11.4	1.50	09/11/2014	ND	5.36	89.3	6.00	14.8	
Total BTEX	15.3	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	
GRO C6-C10	819	100	09/08/2014	ND	157	78.7	200	3.06		
DRO >C10-C28	35100	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

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

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 @ 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

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:	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

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:	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

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:	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	
DRO >C10-C28	38.8	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

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

ORDINAL 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.							BILL TO							ANALYSIS REQUEST											
Project Manager: Cliff Brunson							P.O. #:																		
Address: P.O. Box 805							Company:																		
City: Hobbs							Attn:																		
Phone #: 575-397-6388							State: NM Zip: 88241																		
Fax #: 575-397-0397							Address:																		
Project #:							City:																		
Project Owner: OK							State:																		
Project Location: Livingston Ridge 19 Hectare #1							Zip:																		
Sample Name: VET Crockles							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											
HQ0757-	SP10S-HA4	C	1	X									9-2	838	X										
01	SP10E-1	C	1	X									9-3	913	X										
02	SP10E-3	C	1	X									9-6	960	X										
03	SP10E-5	C	1	X									1-00	100	X										
04	SP10E-3	C	1	X									1-14	114	X										
05	SP10E-3	C	1	X									1-14	114	X										
06	SP10E-8	C	1	X									1-14	114	X										

PLEASE NOTE: Liability and Damages. Cardman's liability and claims exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardman within 30 days after completion of the applicable service. In no event shall Cardman 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 services hereunder by Cardman, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By:		Date: 9-14		Received By:		Date: 9-14	
Relinquished By:		Time:		Received By:		Time:	
Delivered By: (Circle One)		Time: 4:55		Received By:		Time:	
Sampler - UPS - Bus - Other:				Sample Condition:		CHECKED BY:	
				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
				No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>			
REMARKS:							

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
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

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

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

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> wrote:

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

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

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

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.
