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## **OXY – CEDAR CANYON 16 STATE #8H**

### **REMEDIATION PLAN**

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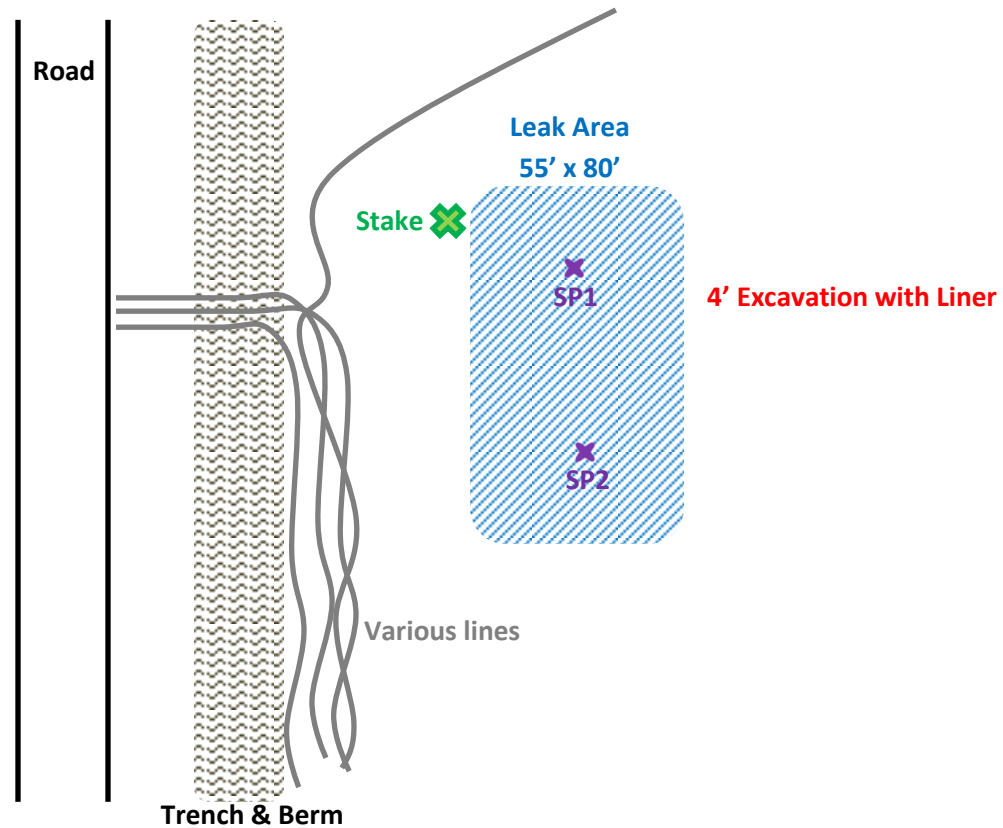
OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 4 feet, then a 20 mil liner will be placed in the bottom of the excavation. The entire site will be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy

# Cedar Canyon 16 State #8H



U/L A, Section 16, T24S, R29E

Eddy County, NM

N 32.22223° W 103.98106°

API# 30-015-41596

**BBC International, Inc.**

**Oxy**

**Cedar Canyon 16 State #8H**

Date: 12/04/2015

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



# Groundwater Plot

Oxy Cedar Canyon 16 State #8H

County  
Eddy

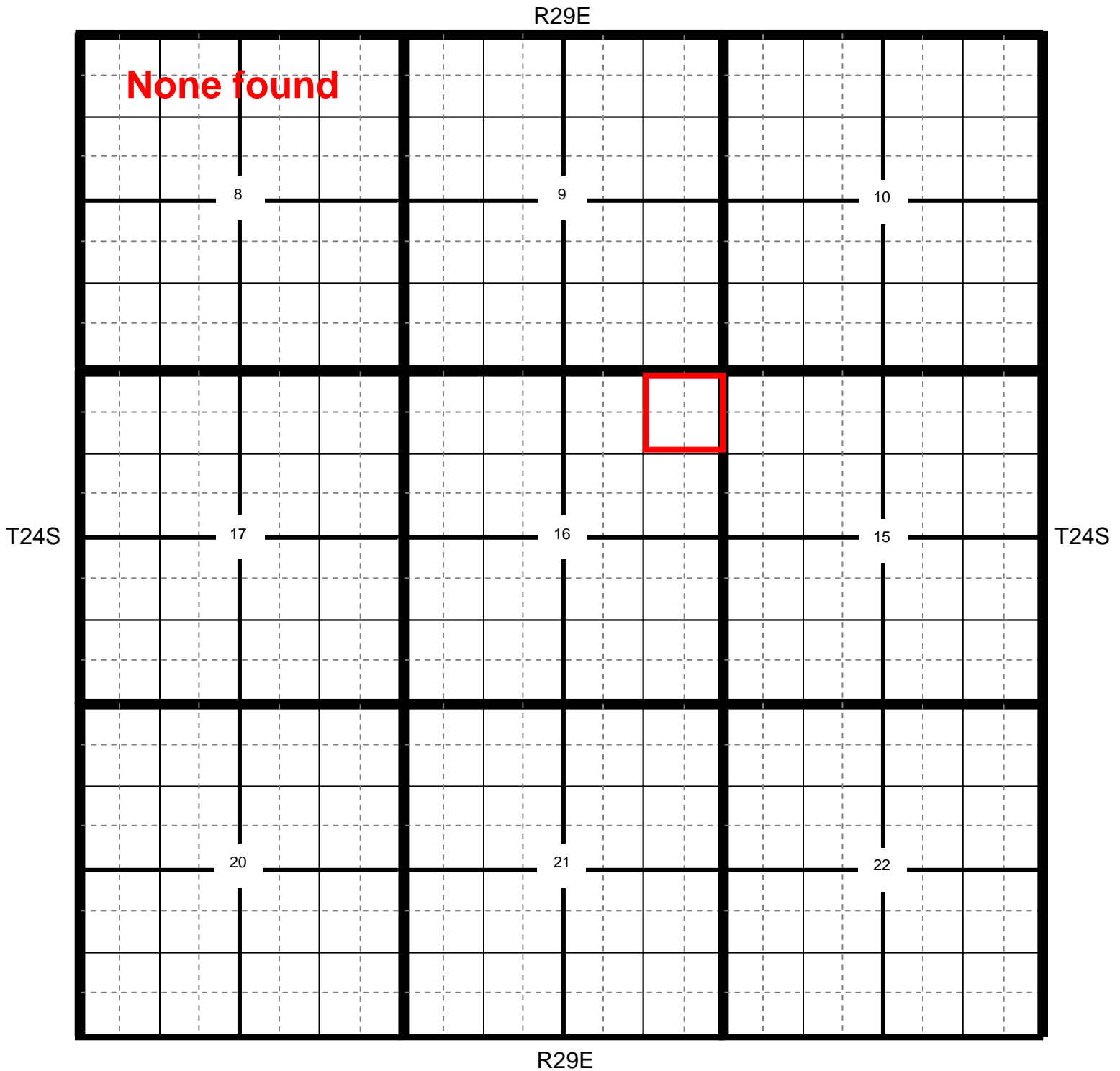
Unit Letter  
A

Section  
16

Township  
24S

Range  
29E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Cedar Canyon 16 State #8H

<b>County</b> Eddy	<b>Unit Letter</b> A	<b>Section</b> 16	<b>Township</b> 24S	<b>Range</b> 29E
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Trend Map 75'-100'

1

2

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

3

4

**Laboratory Analytical Results Summary  
CEDAR CANYON 16 STATE #8H**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'	SP1 @ 11'	SP1 @ 13'
Analyte	Method	Date	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>5920</b>	<b>4960</b>	<b>832</b>	<b>704</b>	<b>1760</b>	<b>448</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 11'	SP2 @ 13'
Analyte	Method	Date	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>10100</b>	<b>6660</b>	<b>4320</b>	<b>912</b>	<b>1700</b>	<b>480</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>11</b>	<10.0	<b>23.3</b>	<10.0	<10.0	<10.0	<10.0



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

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January 21, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 16 STATE #8H

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 1' (H600092-01)**

BTX 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	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTX	<0.300	0.300	01/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	01/18/2016	ND	432	108	400	3.77		

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 86.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 3' (H600092-02)**

BTX 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	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTX	<0.300	0.300	01/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 92.9 % 35-147

Surrogate: 1-Chlorooctadecane 90.3 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 5' (H600092-03)**

BTX 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	01/18/2016	ND	1.70	84.8	2.00	8.33		
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32		
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40		
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60		
Total BTX	<0.300	0.300	01/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 92.0 % 35-147

Surrogate: 1-Chlorooctadecane 95.6 % 28-171

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 7' (H600092-04)**

BTX 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	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTX	<0.300	0.300	01/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	01/18/2016	ND	432	108	400	3.77		

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

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Fax To: (575) 397-0397

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 9' (H600092-05)**

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	01/19/2016	ND	1.70	84.8	2.00	8.33		
Toluene*	<0.050	0.050	01/19/2016	ND	1.69	84.7	2.00	7.32		
Ethylbenzene*	<0.050	0.050	01/19/2016	ND	1.55	77.6	2.00	7.40		
Total Xylenes*	<0.150	0.150	01/19/2016	ND	4.86	81.0	6.00	6.60		
Total BTEX	<0.300	0.300	01/19/2016	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 11' (H600092-06)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 82.5 % 35-147

Surrogate: 1-Chlorooctadecane 86.6 % 28-171

Cardinal Laboratories

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**Analytical Results For:**

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 13' (H600092-07)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 1' (H600092-08)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48		
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520		
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16		
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16		
Total BTX	<0.300	0.300	01/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	11.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 86.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.5 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 3' (H600092-09)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48		
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520		
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16		
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16		
Total BTX	<0.300	0.300	01/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 5' (H600092-10)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48		
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520		
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16		
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16		
Total BTX	<0.300	0.300	01/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	23.3	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 7' (H600092-11)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48		
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520		
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16		
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16		
Total BTX	<0.300	0.300	01/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 9' (H600092-12)**

BTX 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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 11' (H600092-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	

Surrogate: 1-Chlorooctane 76.7 % 35-147

Surrogate: 1-Chlorooctadecane 80.1 % 28-171

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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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 13' (H600092-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	

Surrogate: 1-Chlorooctane 78.0 % 35-147

Surrogate: 1-Chlorooctadecane 82.8 % 28-171

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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

# BILL TO

## ANALYSIS REQUEST

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

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	Dusty Wilson
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	432-685-5771
Facility Name	Cedar Canyon 16 State #8H	Facility Type	Well

Surface Owner	State	Mineral Owner		API No.	30-015-41596
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	24S	29E					Eddy

Latitude N 32.22223° Longitude N 103.98106°

#### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 40 bbls produced water	Volume Recovered	0 bbls
Source of Release	Discharge fire on suction line	Date and Hour of Occurrence	11/11/15	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Heather Patterson, Mike Bratcher		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	11/16/15 @ 11:53 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 static discharge fire on the gas compressor suction line caused 5 bbls of oil and 40 bbls of produced water to leak 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 55' x 80' off location near the trench. Remediation will be completed in accordance with the remediation plan approved by NMOCD.

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

#### OIL CONSERVATION DIVISION

Signature:	Approved by Environmental Specialist:		
Printed Name: Casey Summers			
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: casey_summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12-9-15 Phone: (575)513-8289			

\* Attach Additional Sheets If Necessary