



## **OXY – LOST TANK 3 FEDERAL #21**

### **REMEDIATION PLAN**

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OXY will excavate the spill area as depicted on the following site diagram. In the area near SP1, the excavation will be 3 feet. In the area near SP2, the excavation will be 1 foot and then a re-sample will be taken at 4 feet. In the area near SP3, no excavation required, but a re-sample at 4 feet will be collected. In the area near SP4, the excavation will be 1 foot. In the area near SP5 and SP6, the excavation will be 1 foot. The entire site will be backfilled with clean soil.

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



Oxy  
Lost Tank 3 Federal #21 (5/3/16)

Pasture

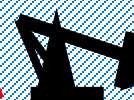
Location

U/L E, Section 3, T22S, R31E  
Eddy County, NM  
N 32.42074° W 103.77336°  
API# 30-015-37920

Road

Pasture

Pasture



Pumpjacks

1' Excavation

70' x 30'

45' x 30'

1' Excavation

15' x 15'

SP6

SP4

Stake

SP5

Leak Area

90' x 45'

No Excavation,  
Resample at 4'

SP3

45' x 2'

SP2

1' Excavation,  
Resample at 4'

3' Excavation

SP1

25' x 15'

BBC International, Inc.

Oxy

Lost Tank 3 Federal #21

Date: 05/09/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

# Groundwater Plot

## Oxy Lost Tank 3 Federal #21

County  
Eddy

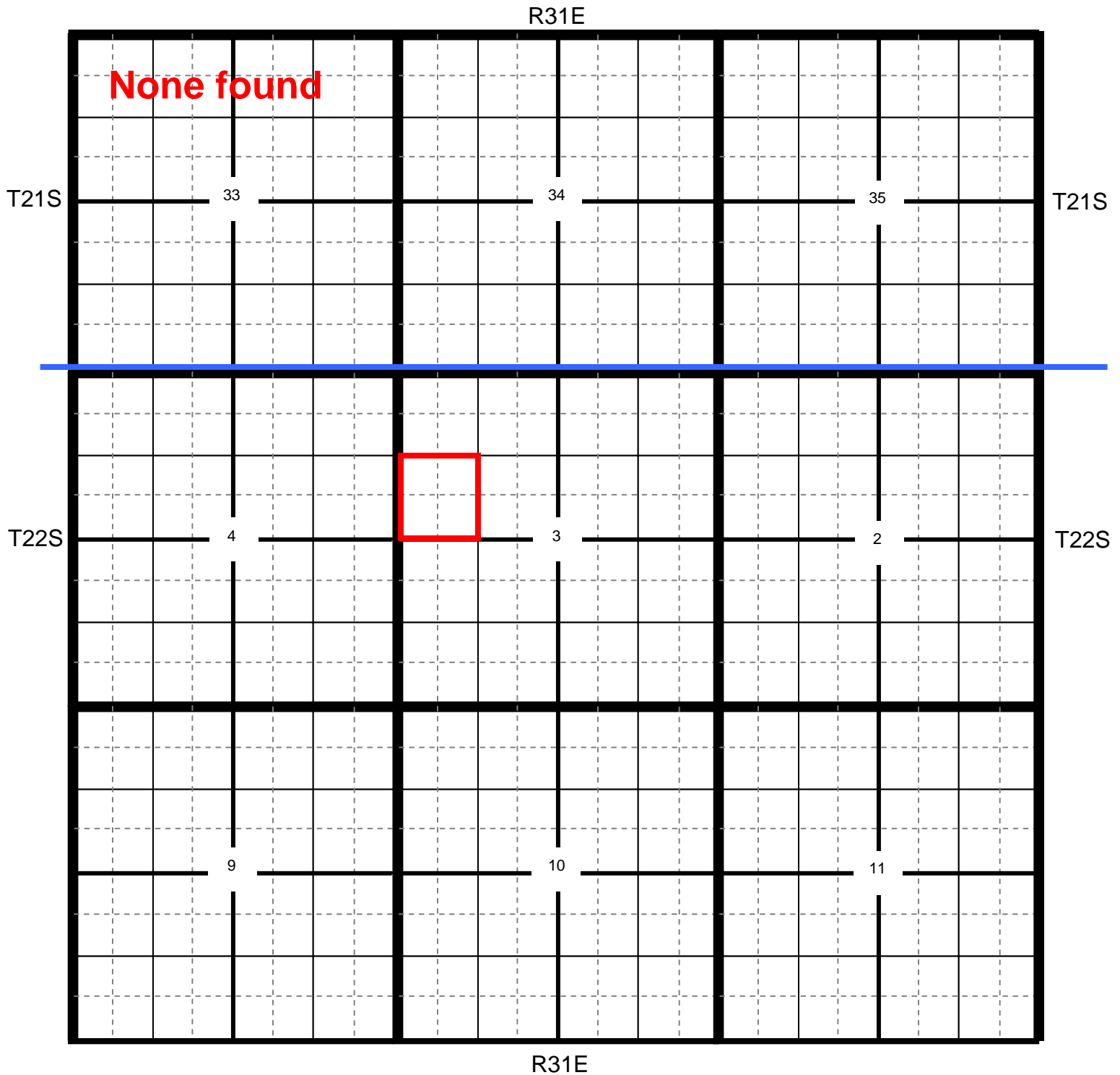
Unit Letter  
E

Section  
3

Township  
22S

Range  
31E

Trend Map 150'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Lost Tank 3 Federal #21

County Eddy      Unit Letter E      Section 3      Township 22S      Range 31E

Trend Map 150'

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**  
**Lost Tank 3 Fed #21**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	n/a	n/a
Toluene	BTEX 8021B		1.05	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		2.32	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		11	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		14.4	<0.300	n/a	n/a
Chloride	SM4500Cl-B		6800	7460	244	208
GRO	TPH 8015M		699	<10.0	n/a	n/a
DRO	TPH 8015M		4610	72.2	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		5680	32	3600	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		16.9	<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		192	64	3520	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		624	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2920	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	5/18/16	5/18/16	5/18/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenz	BTEX 8021B		<0.050	<0.050	n/a
Total Xyle	BTEX 8021B		<0.150	<0.150	n/a
Total BTE	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		4960	16	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		10.9	<10.0	n/a

May 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FEDERAL #21

Enclosed are the results of analyses for samples received by the laboratory on 05/20/16 11:20.

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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 1 @ 1' (H601105-01)**

BTX 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	05/20/2016	ND	1.79	89.4	2.00	1.76	
<b>Toluene*</b>	<b>1.05</b>	0.500	05/20/2016	ND	1.72	86.0	2.00	2.15	
<b>Ethylbenzene*</b>	<b>2.32</b>	0.500	05/20/2016	ND	1.55	77.7	2.00	1.46	
<b>Total Xylenes*</b>	<b>11.0</b>	1.50	05/20/2016	ND	4.93	82.1	6.00	1.55	
<b>Total BTX</b>	<b>14.4</b>	3.00	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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
<b>Chloride</b>	<b>6800</b>	16.0	05/23/2016	ND	432	108	400	3.77	QM-07

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>699</b>	50.0	05/20/2016	ND	188	94.2	200	1.60		
<b>DRO &gt;C10-C28</b>	<b>4610</b>	50.0	05/20/2016	ND	208	104	200	4.73		

Surrogate: 1-Chlorooctane 153 % 35-147

Surrogate: 1-Chlorooctadecane 160 % 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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 1 @ 3' (H601105-02)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEx	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	7460	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	72.2	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

**Sample ID: SP 1 @ 5' (H601105-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/23/2016	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 1 @ 6' (H601105-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/23/2016	ND	432	108	400	3.77	

**Sample ID: SP 2 @ 1' (H601105-05)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEx	<0.300	0.300	05/20/2016	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	5680	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	16.9	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 75.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.5 % 28-171

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\*=Accredited Analyte

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Fax To: (575) 397-0397

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 2 @ 3' (H601105-06)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	32.0	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 80.2 % 35-147

Surrogate: 1-Chlorooctadecane 98.7 % 28-171

**Sample ID: SP 2 @ 4' (H601105-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	05/23/2016	ND	432	108	400	3.77	

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Fax To: (575) 397-0397

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 2 @ 5' (H601105-08)**

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	05/23/2016	ND	432	108	400	3.77		

**Sample ID: SP 3 @ 1' (H601105-09)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTX	<0.300	0.300	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	192	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 3 @ 3' (H601105-10)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	64.0	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

**Sample ID: SP 3 @ 4' (H601105-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	05/23/2016	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 3 @ 5' (H601105-12)**

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	05/23/2016	ND	432	108	400	3.77		

**Sample ID: SP 4 @ 1' (H601105-13)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTX	<0.300	0.300	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	624	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.4 % 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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 4 @ 2' (H601105-14)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	16.0	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.8 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

**Sample ID: SP 4 @ 3' (H601105-15)**

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	05/23/2016	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 5 @ 1' (H601105-16)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15	
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55	
Total BTX	<0.300	0.300	05/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	2920	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 75.9 % 35-147

Surrogate: 1-Chlorooctadecane 93.9 % 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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 5 @ 2' (H601105-17)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	16.0	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 84.9 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

**Sample ID: SP 5 @ 3' (H601105-18)**

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	05/23/2016	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 6 @ 1' (H601105-19)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	10.9	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 81.7 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 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:	05/20/2016	Sampling Date:	05/18/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #21	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 6 @ 2' (H601105-20)**

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	05/20/2016	ND	1.79	89.4	2.00	1.76		
Toluene*	<0.050	0.050	05/20/2016	ND	1.72	86.0	2.00	2.15		
Ethylbenzene*	<0.050	0.050	05/20/2016	ND	1.55	77.7	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/20/2016	ND	4.93	82.1	6.00	1.55		
Total BTEX	<0.300	0.300	05/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	16.0	16.0	05/23/2016	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	05/20/2016	ND	188	94.2	200	1.60	
DRO >C10-C28	<10.0	10.0	05/20/2016	ND	208	104	200	4.73	

Surrogate: 1-Chlorooctane 80.8 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

**Sample ID: SP 6 @ 3' (H601105-21)**

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	05/23/2016	ND	416	104	400	0.00	

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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









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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Lost Tank 3 Federal #21	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-37920

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	3	22S	31E					Eddy County, NM

Latitude N 32.42074° Longitude W 103.77336°

### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 5 bbls produced water	Volume Recovered	14 bbls
Source of Release	Excess pressure caused the stuffing box packing on the wellhead to blow out	Date and Hour of Occurrence	05/03/2016	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?	Mike Bratcher, Heather Patterson- NMOCD, Shelly Tucker- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/03/2016 @ 4:01 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.\*

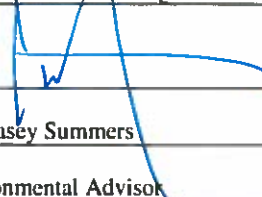
Describe Cause of Problem and Remedial Action Taken.\*

Excess pressure caused the stuffing box packing on the wellhead to blow out 15 bbls of oil and 5 bbls of produced water onto location. A vacuum truck recovered 14 bbls of fluids and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 175' x 150' with most of the leak staying on 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: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:Casey.Summers@oxy.com">Casey.Summers@oxy.com</a>		Conditions of Approval:	
Date: 5-16-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary