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

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## **OXY – LOST TANK 33 FEDERAL #2 SWD**

### **REMEDIATION PLAN**

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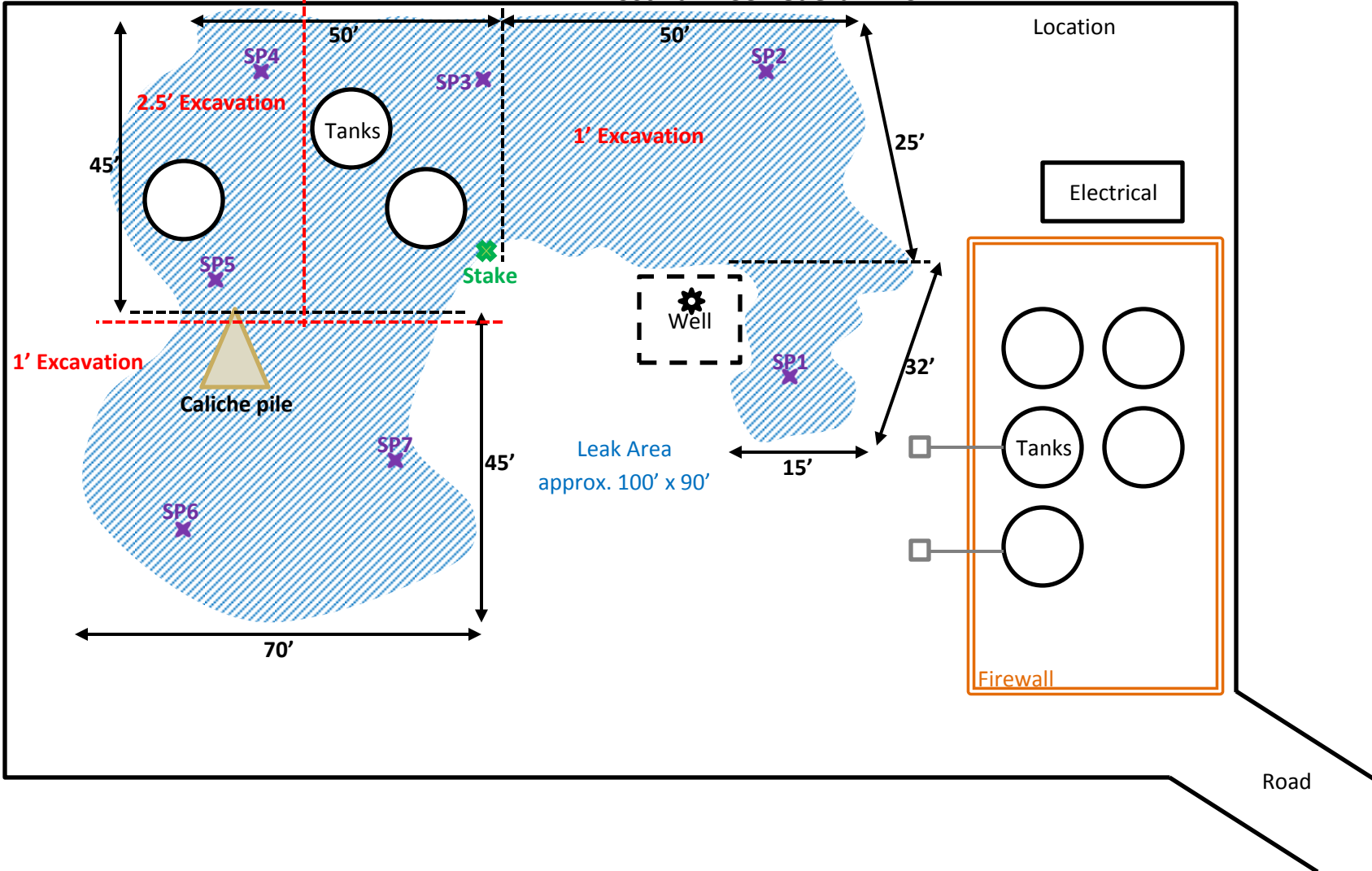
Oxy will excavate the spill area as depicted on the following site diagram. The spill area covering SP1, SP2, and SP3 will be excavated to a depth of 1 foot. The area covering SP4 and SP5 will be excavated to a depth of 2.5 feet. The area covering SP6 and SP7 will be excavated to a depth of 1 foot. The site will then be backfilled with clean soil.

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



Oxy

# Lost Tank 33 Federal #2 SWD



U/L M, Section 33, T21S, R31E

Eddy County, NM

N 32.42870° W 103.78971°

API# 30-015-29330

**BBC International, Inc.**

**Oxy**

**Lost Tank 33 Federal #2 SWD**

Date: 09/14/2015

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



# Groundwater Plot

## Oxy Lost Tank 33 Federal #2 SWD

County  
Eddy

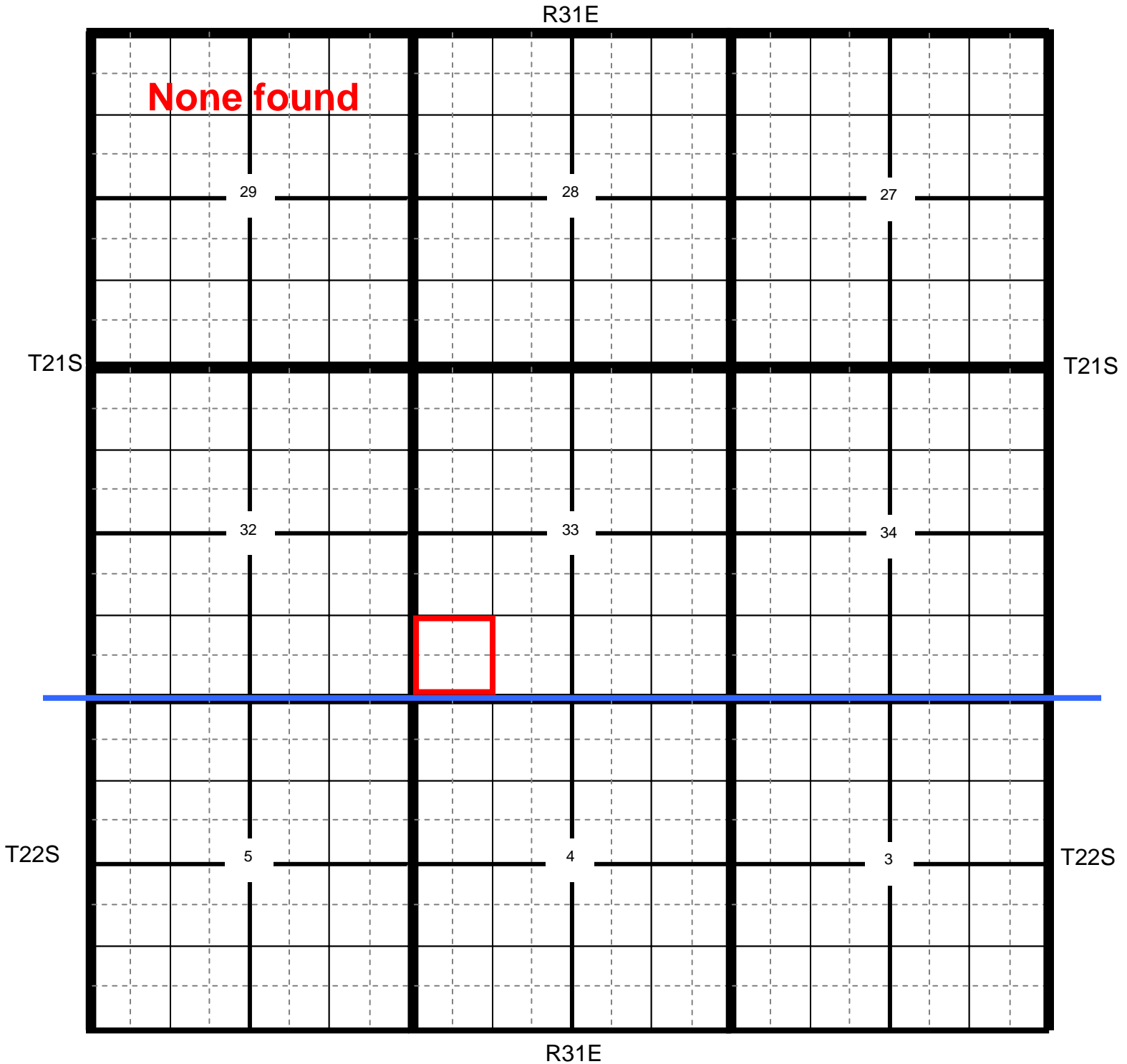
Unit Letter  
M

Section  
33

Township  
21S

Range  
31E

Trend Map 175'



Location

OCD

USGS

SEO

All Databases

## Oxy Lost Tank 33 Federal #2 SWD

County Eddy      Unit Letter M      Section 33      Township 21S      Range 31E

Trend Map 175'

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 33 Federal #2 SWD**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15	9/16/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		26000	544	848	752	656	368	<16.0	<16.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	9/16/15	9/16/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		25200	608	880	672	320	16	<16.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15	9/17/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		26400	720	528	304	16	<16.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	9/17/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		37600	12000	4400	800	576	<16.0	<16.0

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		38000	20000	4560	992	560	<16.0	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	9/18/15	9/21/15	9/21/15	9/21/15	9/21/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		38000	1120	592	256	160

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	9/21/15	9/21/15	9/21/15	9/21/15	9/21/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		27200	688	352	240	80



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

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September 29, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 33 FEDERAL #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/22/15 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	09/22/2015	Sampling Date:	09/16/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H502498-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	09/24/2015	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 1' (H502498-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/24/2015	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 2' (H502498-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	09/24/2015	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 3' (H502498-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/24/2015	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	09/22/2015	Sampling Date:	09/16/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ 4' (H502498-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/24/2015	ND	432	108	400	3.77		

**Sample ID: SP 1 @ 5' (H502498-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/24/2015	ND	432	108	400	3.77	

**Sample ID: SP 1 @ 6' (H502498-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2015	ND	448	112	400	7.41		

**Sample ID: SP 1 @ 7' (H502498-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2015	ND	448	112	400	7.41		

**Sample ID: SP 2 @ SURFACE (H502498-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25200	16.0	09/25/2015	ND	448	112	400	7.41		

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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:	09/22/2015	Sampling Date:	09/16/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1' (H502498-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	09/25/2015	ND	448	112	400	7.41		

**Sample ID: SP 2 @ 2' (H502498-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 2 @ 3' (H502498-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 2 @ 4' (H502498-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 2 @ 5' (H502498-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2015	ND	448	112	400	7.41		

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 Fax To: (575) 397-0397

Received:	09/22/2015	Sampling Date:	09/17/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 2 @ 6' (H502498-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 3 @ SURFACE (H502498-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 3 @ 1' (H502498-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 3 @ 2' (H502498-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 3 @ 3' (H502498-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/25/2015	ND	448	112	400	7.41	

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Fax To: (575) 397-0397

Received:	09/22/2015	Sampling Date:	09/17/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ 4' (H502498-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2015	ND	448	112	400	7.41		

**Sample ID: SP 3 @ 5' (H502498-21)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2015	ND	448	112	400	7.41		

**Sample ID: SP 4 @ SURFACE (H502498-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37600	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 4 @ 1' (H502498-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 4 @ 2' (H502498-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	09/25/2015	ND	448	112	400	7.41		

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

Received:	09/22/2015	Sampling Date:	09/18/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 4 @ 3' (H502498-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 4 @ 4' (H502498-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	09/25/2015	ND	448	112	400	7.41	

**Sample ID: SP 4 @ 5' (H502498-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 4 @ 6' (H502498-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 5 @ SURFACE (H502498-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38000	16.0	09/25/2015	ND	464	116	400	3.51	

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Fax To: (575) 397-0397

Received:	09/22/2015	Sampling Date:	09/18/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 5 @ 1' (H502498-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	09/25/2015	ND	464	116	400	3.51		

**Sample ID: SP 5 @ 2' (H502498-31)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 5 @ 3' (H502498-32)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 5 @ 4' (H502498-33)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 5 @ 5' (H502498-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2015	ND	464	116	400	3.51		

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:	09/22/2015	Sampling Date:	09/18/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 5 @ 6' (H502498-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2015	ND	464	116	400	3.51		

**Sample ID: SP 6 @ SURFACE (H502498-36)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38000	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 6 @ 1' (H502498-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 6 @ 2' (H502498-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 6 @ 3' (H502498-39)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/25/2015	ND	464	116	400	3.51	

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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:	09/22/2015	Sampling Date:	09/21/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 6 @ 4' (H502498-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/25/2015	ND	464	116	400	3.51		

**Sample ID: SP 7 @ SURFACE (H502498-41)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 7 @ 1' (H502498-42)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 7 @ 2' (H502498-43)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/25/2015	ND	464	116	400	3.51	

**Sample ID: SP 7 @ 3' (H502498-44)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/25/2015	ND	464	116	400	3.51	

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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:	09/22/2015	Sampling Date:	09/21/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	LOST TANK 33 FEDERAL #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 7 @ 4' (H502498-45)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/25/2015	ND	464	116	400	3.51	

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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



# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Lost Tank 33 Federal #2 SWD

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company: *Dushyul'son*

Attn:

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

*H502498*

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :													
1	SP1 @ SURFACE	G	1	✓						✓	9/16/15	11:38 AM	✓									
2	SP1 @ 1'	G	1	✓						✓	9/16/15	1:00 PM	✓									
3	SP1 @ 2'	G	1	✓						✓	9/16/15	1:11 PM	✓									
4	SP1 @ 3'	G	1	✓						✓	9/16/15	1:30 PM	✓									
5	SP1 @ 4'	G	1	✓						✓	9/16/15	1:50 PM	✓									
6	SP1 @ 5'	G	1	✓						✓	9/16/15	2:09 PM	✓									
7	SP1 @ 6'	G	1	✓						✓	9/16/15	2:15 PM	✓									
8	SP1 @ 7'	G	1	✓						✓	9/16/15	2:37 PM	✓									
9	SP2 @ SURFACE	G	1	✓						✓	9/16/15	3:00 PM	✓									
10	SP2 @ 1'	G	1	✓						✓	9/16/15	3:15 PM	✓									

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Relinquished By:

Date: *9/16/15*

Received By:

Date: *9/22/15*

Relinquished By:

Date: *9/22/15*

Received By:

Date: *9/22/15*

Relinquished By:

Date: *9/22/15*

Received By:

Date: *9/22/15*

Relinquished By:

Date: *9/22/15*

Received By:

Date: *9/22/15*

Relinquished By:

Date: *9/22/15*

Received By:

Date: *9/22/15*

Relinquished By:

Date: *9/22/15*

Received By:

Date: *9/22/15*

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*#54*



**CARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
Project Manager: Cliff Brunson  
Address: P.O. Box 805  
City: Hobbs  
State: NM Zip: 88241  
Phone #: 575-397-6388 Fax #: 575-397-0397  
Project #: Project Owner: Oxy  
Project Name: Lost Tank 33 Federal #2 SWD  
Project Location: Eddy County, NM  
Sample Name: Jeff Ornelas

P.O. #:  
Company: *Jeff Ornelas*  
Attn:  
Address:  
City:  
State: Zip:  
Phone #:  
Fax #:

Phone #: 575-397-6388	Fax #: 575-397-0397	Address:
Project #:	Project Owner: Oxy	City:
Project Name: Lost Tank 33 Federal #2 SWD		State: Zip:
Project Location: Eddy County, NM		Phone #:
Sampler Name: Jeff Ornelas	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Relinquished By: *Jeff Ornelas* Date: *9/17/15* Time: *5:00pm* Received By: *Jeff Ornelas* Date: *9/22/15* Time: *2:45pm*

Relinquished By: *Jeff Ornelas* Date: *9/22/15* Time: *2:45pm* Received By: *Jeff Ornelas* Date: *9/22/15* Time: *2:45pm*

Delivered By: (Circle One) *UPS* Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

Sampler - UPS - Bus - Other: *5.60* CHECKED BY: *Jeff Ornelas*

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

#54





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Lost Tank 33 Federal #2 SWD

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company: *Dispy W. Isa*

Attn:

Address:

City:

State:

Phone #:

Fax #:

## ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE												
H501498	SP3 @ 5'	6	1	<input checked="" type="checkbox"/>					9/17/15	3:12 PM	<input checked="" type="checkbox"/>									
	SP4 @ SURFACE	6	1	<input checked="" type="checkbox"/>					9/17/15	3:33 PM	<input checked="" type="checkbox"/>									
	SP4 @ 1'	6	1	<input checked="" type="checkbox"/>					9/18/15	9:00 AM	<input checked="" type="checkbox"/>									
	SP4 @ 2'	6	1	<input checked="" type="checkbox"/>					9/18/15	9:33 AM	<input checked="" type="checkbox"/>									
	SP4 @ 3'	6	1	<input checked="" type="checkbox"/>					9/18/15	10:15 AM	<input checked="" type="checkbox"/>									
	SP4 @ 4'	6	1	<input checked="" type="checkbox"/>					9/18/15	10:56 AM	<input checked="" type="checkbox"/>									
	SP4 @ 5'	6	1	<input checked="" type="checkbox"/>					9/18/15	11:27 AM	<input checked="" type="checkbox"/>									
	SP4 @ 6'	6	1	<input checked="" type="checkbox"/>					9/18/15	12:05 PM	<input checked="" type="checkbox"/>									
	SP5 @ SURFACE	6	1	<input checked="" type="checkbox"/>					9/18/15	1:11 PM	<input checked="" type="checkbox"/>									
	SP5 @ 1'	6	1	<input checked="" type="checkbox"/>					9/18/15	1:39 PM	<input checked="" type="checkbox"/>									

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Relinquished By:

Date: 9/15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 9-22-15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 9-22-15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 9-22-15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 9-22-15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 9-22-15

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

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

#54







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	Lost Tank 33 Federal #2 SWD	Facility Type	SWD

Surface Owner	BLM	Mineral Owner		API No.	30-015-29330
---------------	-----	---------------	--	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	33	21S	31E					Eddy County, NM

Latitude N 32.42870° Longitude W 103.78971°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	80 bbls	Volume Recovered	70 bbls
Source of Release	Coupler on well head failed due to vibration and high pressure	Date and Hour of Occurrence	09/03/2015	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	09/03/2015 @ 5:03 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.\*

The steel coupler on the well head failed due to high pressure and vibration causing 80 bbls of produced water to leak onto the ground. A vacuum truck recovered 70 bbls of produced water and the coupler was replaced.

Describe Area Affected and Cleanup Action Taken \*

The affected area is approximately 85' x 40' 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.

OIL CONSERVATION DIVISION

Signature: 

Printed Name: Dusty Wilson

Title: Environmental Advisor

E-mail Address: Dusty.Wilson@oxy.com

Date: 9/21/15 Phone: (432) 685-5771

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary