

Site Description

Site Name:	CD Woolworth Tank Battery
Company:	Oxy Permian Ltd.
Legal Description:	SW ¼, Section 30, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.18641° W 103.20506°

Release Data

Date of Release:	05/04/2014
Type of Release:	Oil
Source of Release:	Leak in 2" circulating line on the discharge side
Volume of Release:	40 bbls
Volume Recovered:	1 bbl

Remediation Specifications

Remediation Parameters:	Excavate the areas around SP1 and SP2 to a depth of 1.5 ft. Excavate the area around SP3 to a depth of 2 feet. Backfill the site with clean soil.	
Remediation Activities:	05/11/2015 to 05/18/2015	
Plan Sent to OCD:	10/22/2014	Email from Cliff Brunson to Tomas Oberding
OCD Approval of Plan:	10/22/2014	Email from Tomas Oberding to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 05/19/2014
Final C-141	Signed 07/13/2015
Site Diagram	May 2014
Groundwater Plot	100'
TOPO Maps	May 2014
Lab Summary	09/05/2014
Lab Analysis	09/05/2014
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.

07/22/2015

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		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> 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	CD Woolworth Tank Battery	Facility Type	Gathering
Surface Owner	RRR Land & Cattle Co.	Mineral Owner	
		API No.	30-025-32862(nearest well)

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SW ¼	30	24S	37E					Lea County, NM

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	40 bbls	Volume Recovered	1 bbl
Source of Release	Leak in 2" circulating line on the discharge side between the pump and the heater treater within the fire wall	Date and Hour of Occurrence	05/04/2014	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?	Geoffrey Leking, NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/05/2014 @ 9:56 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 leak in a 2" circulating line caused 40 bbls of oil to spill onto the ground. A vacuum truck recovered 1 bbl and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 20' on location within the fire wall. Remediation will be completed in accordance with a 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: Chancey Summers	Approval Date:
Title: HES Specialist	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:
Date: 5-19-14 Phone: (575) 397-8216	Attached <input type="checkbox"/>

* 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	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	CD Woolworth Tank Battery	Facility Type	Gathering
Surface Owner	RRR Land & Cattle Co.	Mineral Owner	
		API No.	30-025-32862

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SW ¼	30	24S	37E					Lea County, NM

Latitude N 32.18641° Longitude W 103.20506°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	40 bbls	Volume Recovered	1 bbl
Source of Release	Leak in 2" circulating line on the discharge side between the pump and the heater treater within the fire wall	Date and Hour of Occurrence	05/04/2014	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?	Geoffrey Leking, NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/05/2014 @ 9:56 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.*

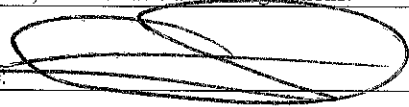
Describe Cause of Problem and Remedial Action Taken.*

A leak in a 2" circulating line caused 40 bbls of oil to spill onto the ground. A vacuum truck recovered 1 bbl and the line was repaired or replaced.

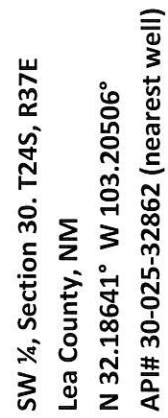
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 20' on location within the fire wall. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/22/2014.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Lead	Approval Date:	Expiration Date:
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-13-15 Phone: (432) 685-5824		

* Attach Additional Sheets If Necessary



BBC International, Inc.	
Oxy	
CD Woolworth Tank Battery	
Date: 05/20/2014	DRWG by: K. Purvis
<i>NOT TO SCALE</i>	File: Oxy 2014

Groundwater Plot

Oxy CD Woolworth Tank Battery

County
Lea

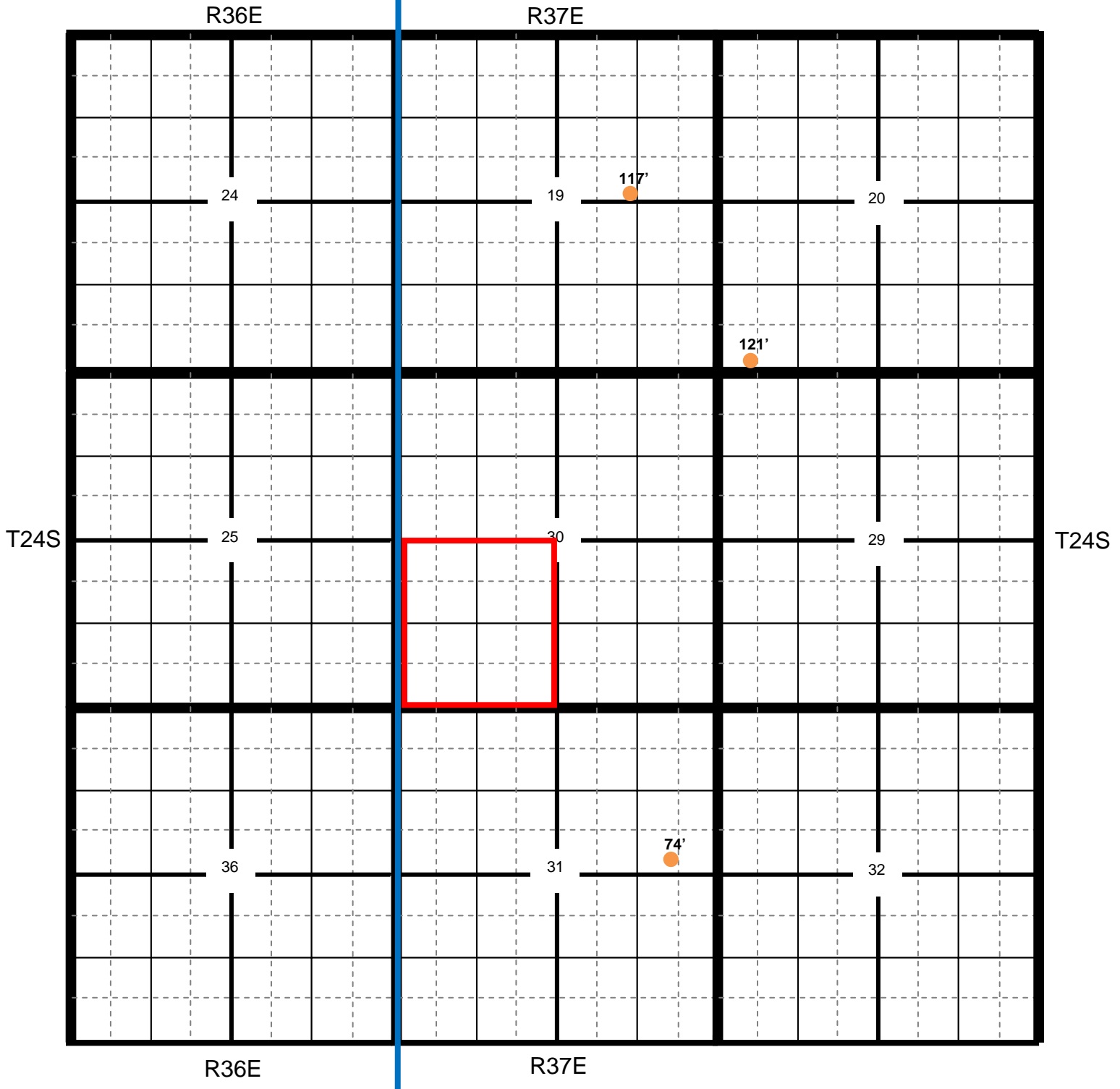
Unit Letter
SW ¼

Section
30

Township
24S

Range
37E

Trend Map 100'



Location

OCD

USGS

SEO

All Databases

Section Quarters

Oxy CD Woolworth Tank Battery

County Lea **Unit Letter** SW ¼ **Section** 30 **Township** 24S **Range** 37E

Trend Map 100'

1

2

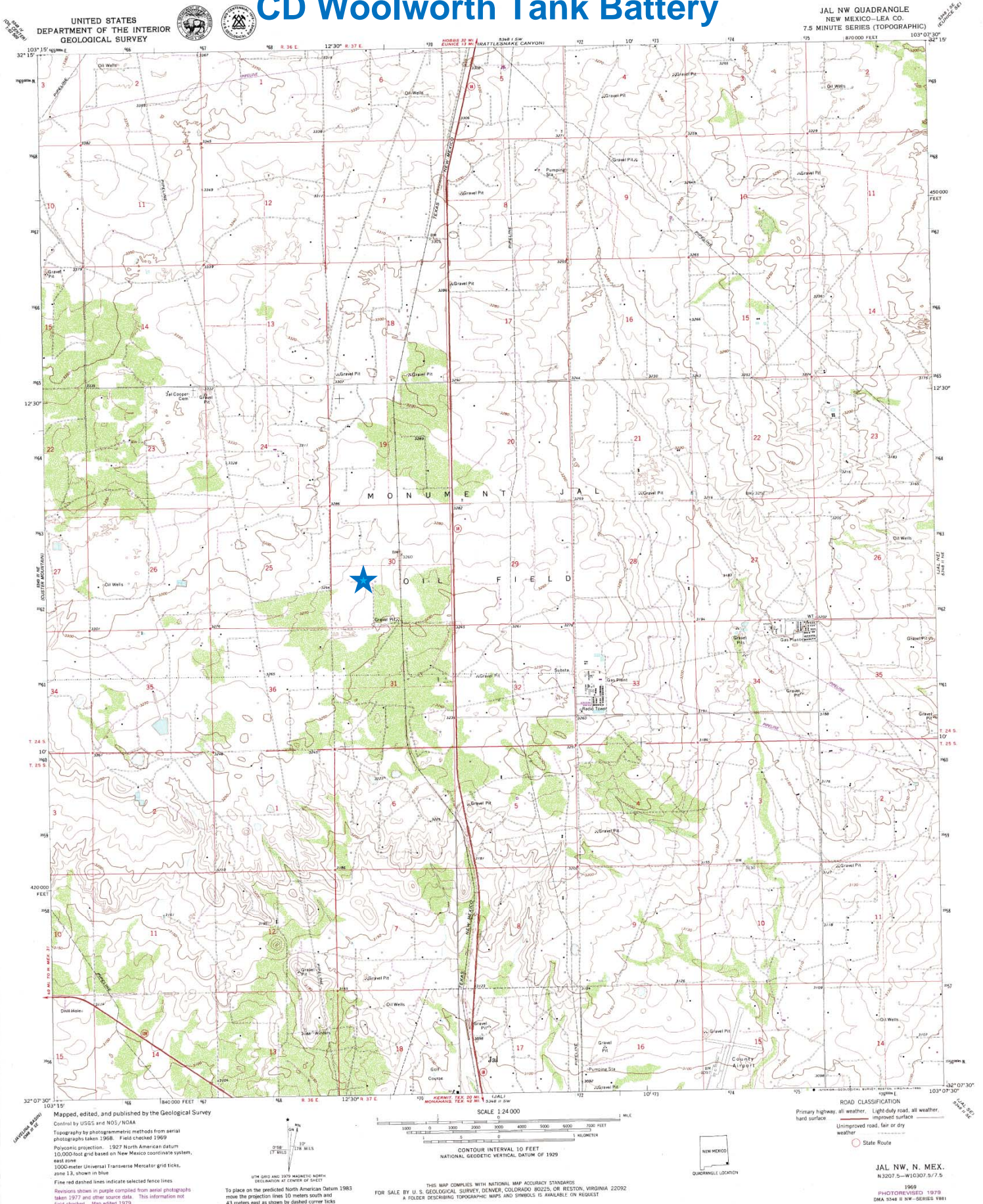
NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter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

3

4

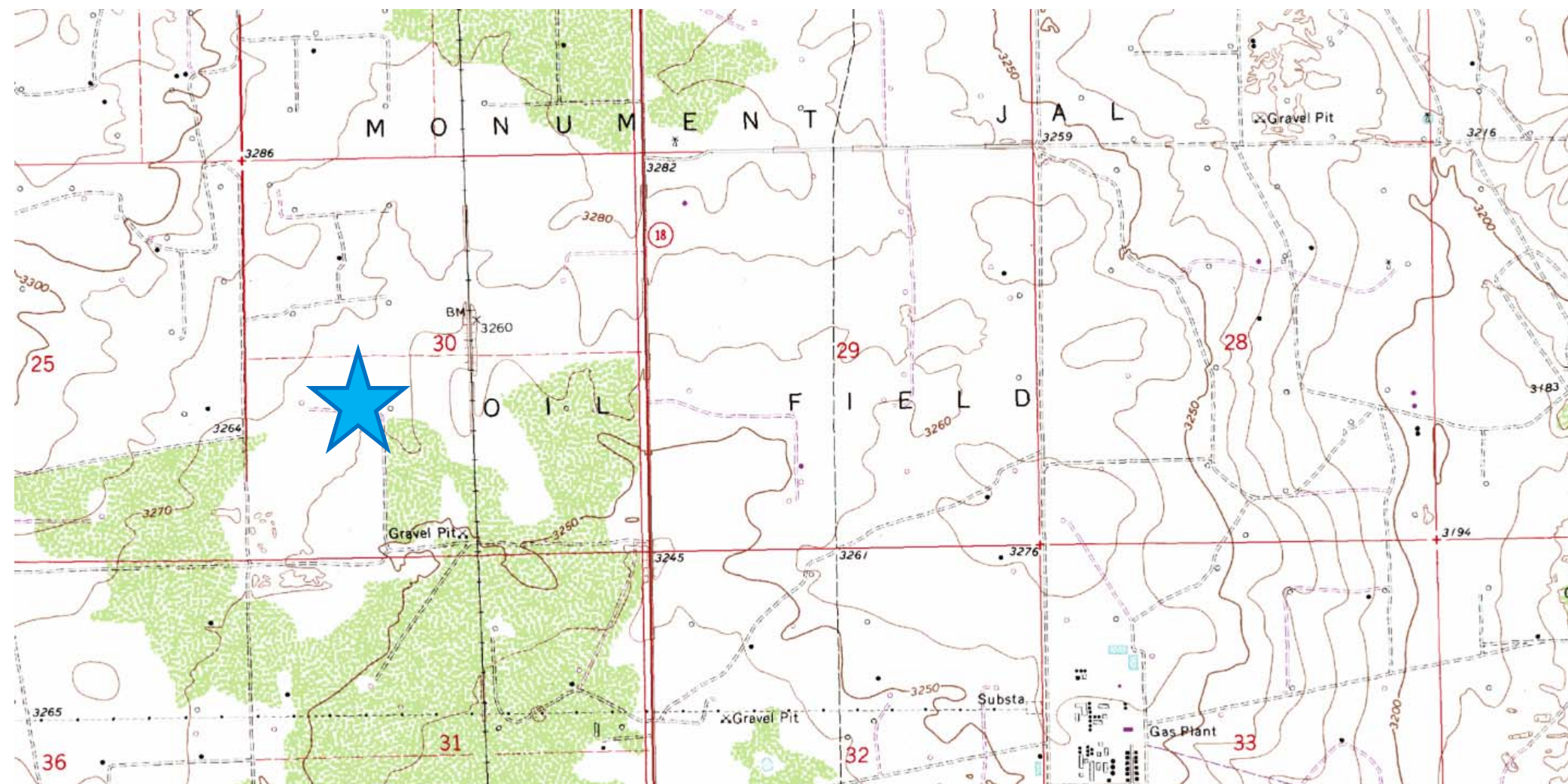
Oxy

CD Woolworth Tank Battery



Oxy

CD Woolworth Tank Battery



**Laboratory Analytical Results Summary
CD Woolworth Tank Battery**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		<0.100	0.318	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.100	0.119	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.300	1.23	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.600	1.67	<0.300	<0.300
GRO	TPH 8015M		<100	149	<50.0	<10.0
DRO	TPH 8015M		4040	1460	1090	16.5

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.200	<0.050
Toluene	BTEX 8021B		0.11	1.03	<0.050
Ethylbenzene	BTEX 8021B		0.115	0.211	<0.050
Total Xylenes	BTEX 8021B		0.927	4.7	<0.150
Total BTEX	BTEX 8021B		1.15	5.94	<0.300
GRO	TPH 8015M		192	319	<10.0
DRO	TPH 8015M		5860	2990	24.9

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		<0.500	2.74	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.500	2.7	<0.050	<0.050
Total Xylenes	BTEX 8021B		<1.50	11	<0.150	<0.150
Total BTEX	BTEX 8021B		<3.00	16.5	<0.300	<0.300
GRO	TPH 8015M		479	1170	<50.0	<10.0
DRO	TPH 8015M		8400	3170	670	<10.0

September 22, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: C D WOOLWORTH

Enclosed are the results of analyses for samples received by the laboratory on 09/16/14 16:30.

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,



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: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 (H402877-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62	
Toluene*	<0.100	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78	
Ethylbenzene*	<0.100	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29	
Total Xylenes*	<0.300	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63	
Total BTEX	<0.600	0.600	09/18/2014	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	<100	100	09/18/2014	ND	228	114	200	1.00		
DRO >C10-C28	4040	100	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3 (H402877-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62	
Toluene*	0.318	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78	
Ethylbenzene*	0.119	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29	
Total Xylenes*	1.23	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63	
Total BTEx	1.67	0.600	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	149	50.0	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	1460	50.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5 (H402877-03)

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	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	1090	50.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 7 (H402877-04)

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	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	16.5	10.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 86.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.4 % 63.6-154

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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:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1 (H402877-05)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	0.110	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	0.115	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	0.927	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEx	1.15	0.600	09/18/2014	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	192	100	09/18/2014	ND	228	114	200	1.00		
DRO >C10-C28	5860	100	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 166 % 63.6-154

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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: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2 (H402877-06)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/18/2014	ND	1.84	92.0	2.00	4.62	
Toluene*	1.03	0.200	09/18/2014	ND	1.74	86.8	2.00	3.78	
Ethylbenzene*	0.211	0.200	09/18/2014	ND	1.63	81.5	2.00	5.29	
Total Xylenes*	4.70	0.600	09/18/2014	ND	4.81	80.2	6.00	5.63	
Total BTEX	5.94	1.20	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	319	100	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	2990	100	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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

Received: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3 (H402877-07)

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	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	24.9	10.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

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

Received: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1 (H402877-08)

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	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.500	0.500	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.500	0.500	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<1.50	1.50	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEx	<3.00	3.00	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	479	200	09/18/2014	ND	228	114	200	1.00		
DRO >C10-C28	8400	200	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 156 % 65.2-140

Surrogate: 1-Chlorooctadecane 198 % 63.6-154

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

Received: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3 (H402877-09)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	09/19/2014	ND	1.85	92.7	2.00	0.723		
Toluene*	2.74	1.00	09/19/2014	ND	1.74	87.2	2.00	0.170		
Ethylbenzene*	2.70	1.00	09/19/2014	ND	1.65	82.6	2.00	0.0482		
Total Xylenes*	11.0	3.00	09/19/2014	ND	4.91	81.9	6.00	0.0951		
Total BTEx	16.5	6.00	09/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1170	200	09/18/2014	ND	228	114	200	1.00		
DRO >C10-C28	3170	200	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 145 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5 (H402877-10)

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	09/19/2014	ND	1.85	92.7	2.00	0.723		
Toluene*	<0.050	0.050	09/19/2014	ND	1.74	87.2	2.00	0.170		
Ethylbenzene*	<0.050	0.050	09/19/2014	ND	1.65	82.6	2.00	0.0482		
Total Xylenes*	<0.150	0.150	09/19/2014	ND	4.91	81.9	6.00	0.0951		
Total BTEX	<0.300	0.300	09/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	670	50.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 63.6-154

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

Received: 09/16/2014
Reported: 09/22/2014
Project Name: C D WOOLWORTH
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 6' (H402877-11)

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	09/19/2014	ND	1.85	92.7	2.00	0.723	
Toluene*	<0.050	0.050	09/19/2014	ND	1.74	87.2	2.00	0.170	
Ethylbenzene*	<0.050	0.050	09/19/2014	ND	1.65	82.6	2.00	0.0482	
Total Xylenes*	<0.150	0.150	09/19/2014	ND	4.91	81.9	6.00	0.0951	
Total BTEX	<0.300	0.300	09/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	09/18/2014	ND	228	114	200	1.00	
DRO >C10-C28	<10.0	10.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.3 % 63.6-154

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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.
- 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

Kathy Purvis

From: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>
Sent: Wednesday, October 22, 2014 3:55 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - CD Woolworth Tank Battery - Remediation Plan

Aloha Mr. Brunson et al,

Thank you for the update on the Woolworth battery.
Based on the documentation OCD approves the scope of work.

Please keep me informed as the situation warrants.
Mahalo

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/oecd/>

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Wednesday, October 22, 2014 10:21 AM
To: Oberding, Tomas, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - CD Woolworth Tank Battery - Remediation Plan

Tomas,

This e-mail is to confirm our conversation today, October 21, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. The agreed upon remediation plan is on the first page of the attachment along with the RP number per your previous request. This site is a State only jurisdiction location.

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
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World-Wide Environmental Specialists
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