

# Closure Report

RECEIVED

OCT 17 2013

NMOCD ARTESIA

## Site Description

Site Name:	Harroun 9-1
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 9, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.22675° W 103.98229°

## Release Data

Date of Release:	06/13/2013
Type of Release:	Oil
Source of Release:	Mechanical error sent oil down a gas line, tank overflow
Volume of Release:	40 bbls
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the leak area represented by sample points SP1 and SP2 to a depth of 2.5 feet. The area represented by SP3 will be excavated to a depth of 1.5 feet or as practicable. Then, backfill the site with the appropriate clean soil.
Remediation Activities:	09/16/2013 to 10/07/2013

Plan Sent to OCD:	09/21/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	10/04/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	Not required	Not required
BLM Approval of Plan:	Not required	Not required

## Supporting Documentation

Initial C-141	Signed 06/24/2013
Final C-141	Signed 10/15/2013
Site Diagram	July 2013
Groundwater Plot	75'
TOPO Maps	July 2013
Lab Summary	07/09/2013
Lab Analysis	07/09/2013
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.

10/15/2013

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Harroun 9-1	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-34997

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	9	24S	29E	530	South	330	East	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

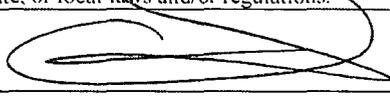
Type of Release	Oil	Volume of Release	40 bbls oil	Volume Recovered	0 bbls oil
Source of Release	Mechanical error sent oil down a gas line causing tank to overflow	Date and Hour of Occurrence	06/13/2013	Date and Hour of Discovery	06/13/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	06/17/2013 @ 8:03 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 mechanical error sent oil down the gas line causing the tank to overflow and leak 40 bbls of oil to leak onto the ground. No fluids were recovered and mechanical error was corrected.

Describe Area Affected and Cleanup Action Taken.\*  
A mechanical error sent oil down the gas line causing the tank to overflow and leak 40 bbls of oil to leak onto the ground. No fluids were recovered and mechanical error was corrected. Remediation will be conducted in accordance with a plan approved by NMOCD and the BLM.

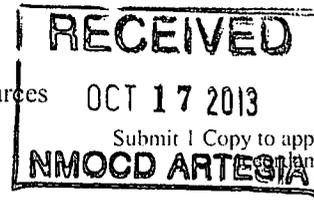
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>6-24-13</u> Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary

District I  
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District II  
811 S. First St., Artesia, NM 88210  
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Form C-141  
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Surface Owner	State/Private	Mineral Owner	
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By Whom?	Chancey Summers	Date and Hour	06/17/2013 @ 8:03 am		
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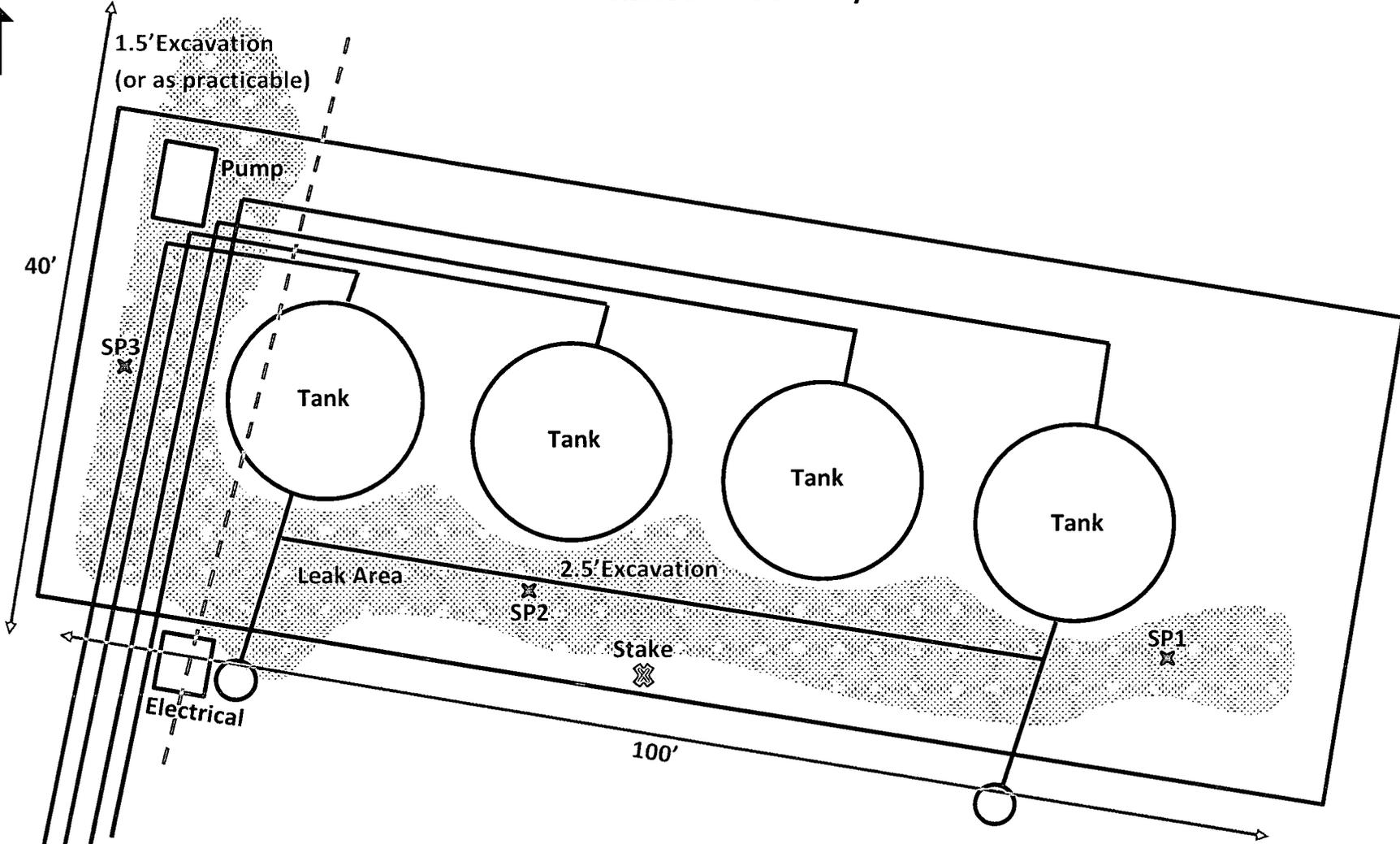
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Signature:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/15/13	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy  
Harroun 9-1 Battery



U/L P, Section 9, T24S, R29E  
530' FSL and 330' FEL  
Eddy County, NM  
N 32.22675° W 103.98229°  
API# 30-015-34997

BBC International, Inc.	
Oxy	
Harroun 9-1 Battery	
Date: 07/03/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Harroun 9-1 Battery

County  
Eddy

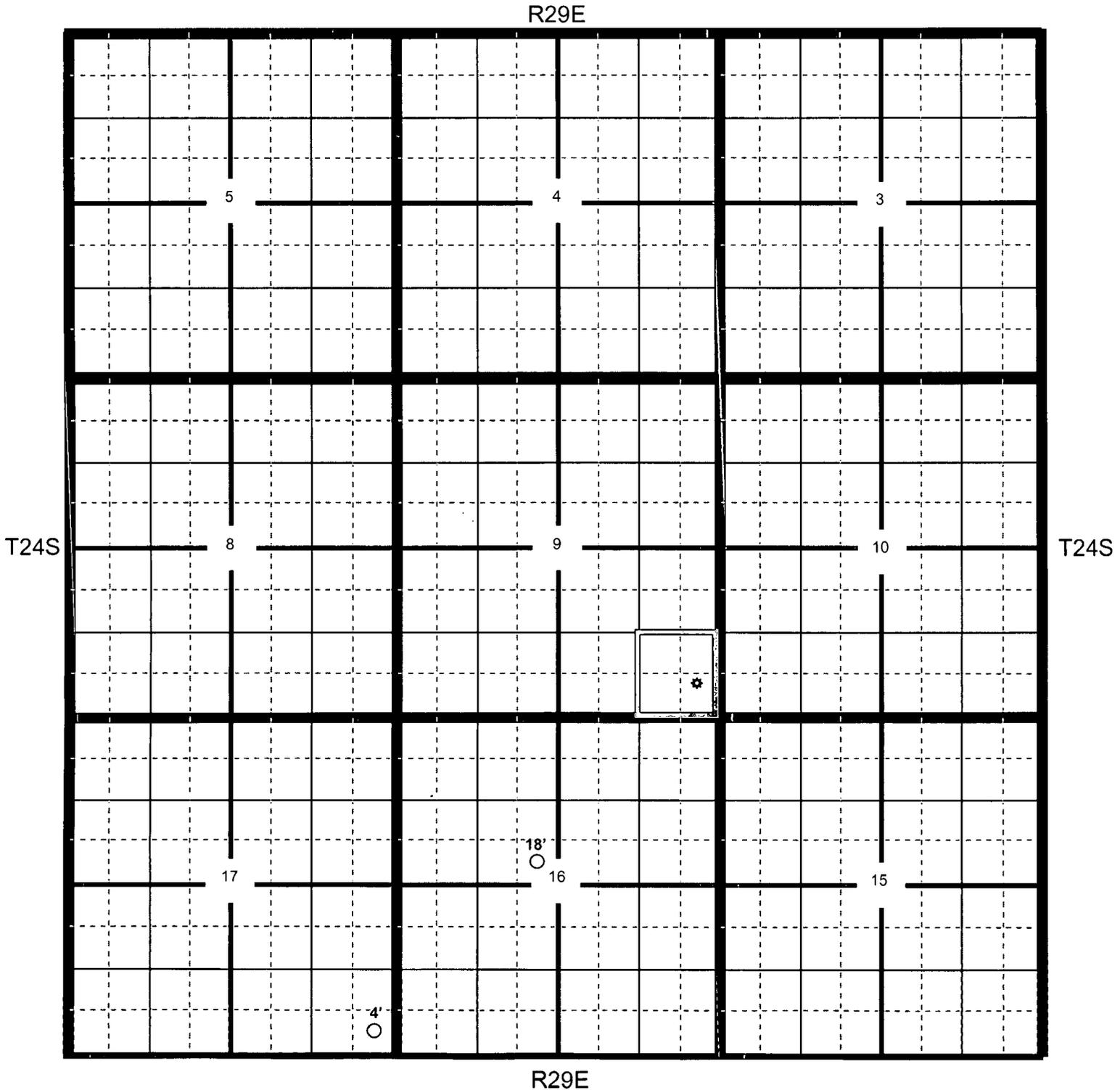
Unit Letter  
P

Section  
9

Township  
24S

Range  
29E

Trend Map 75'



⚙ Location

○ OCD

○ USGS

○ SEO

● All Databases

# Oxy Harroun 9-1 Battery

County Eddy      Unit Letter P      Section 9      Township 24S      Range 29E

Trend Map 75'

1

2

NW/NW <b>NONE</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

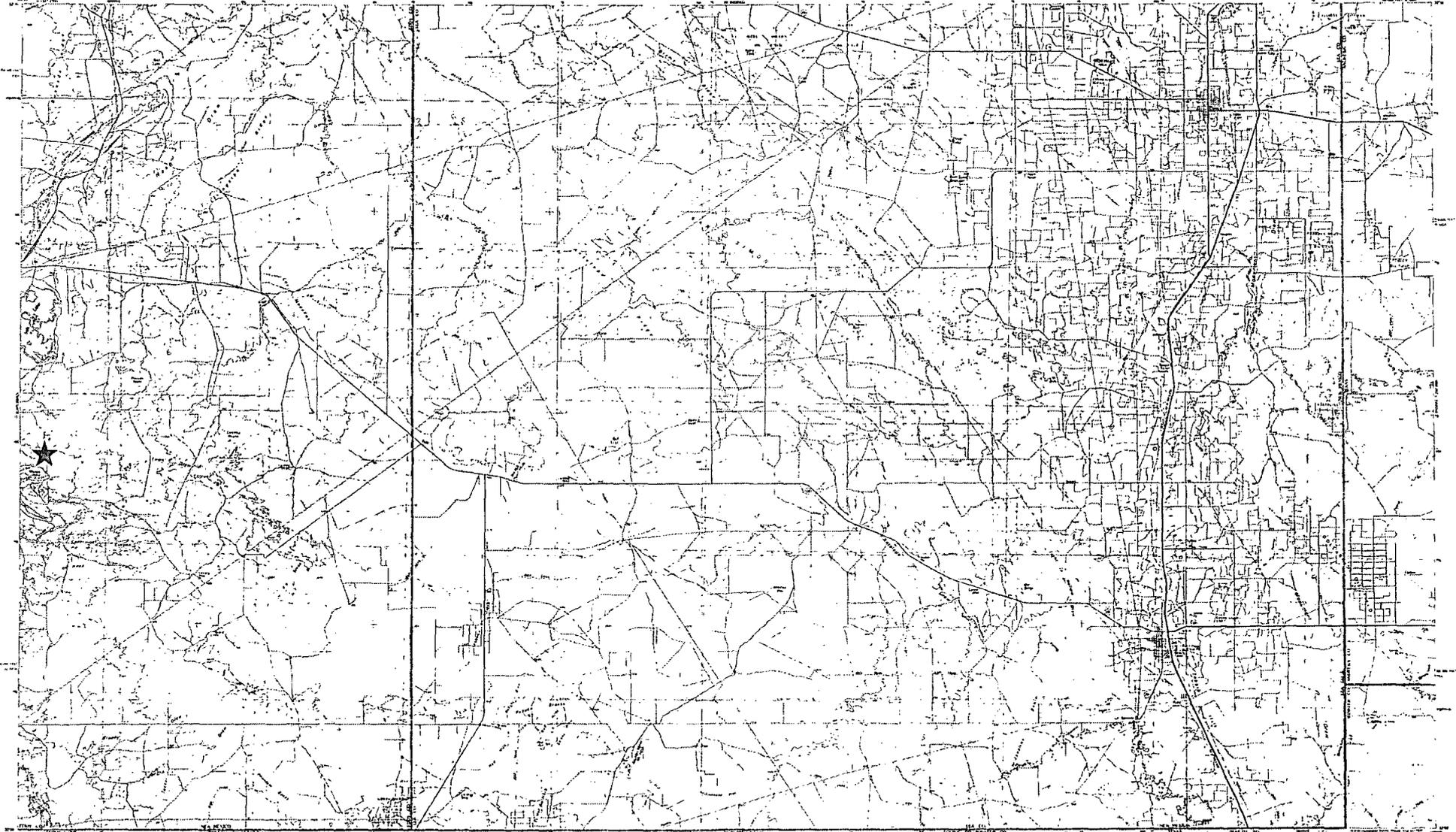
4

# Oxy

## Harroun 9-1 Battery

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

611 QUADRANGLE  
NEW MEXICO - TEXAS  
1:100,000 SCALE, SERIES 1100 (TOPOGRAPHIC)



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in cooperation with the Soil Conservation Service  
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MAP SHEET

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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SCALE 1:100,000

0 1 2 3 4 5 6 7 8 9 10 MILES

0 1 2 3 4 5 6 7 8 9 10 FEET

UNITED STATES GEOLOGICAL SURVEY  
WASHINGTON, D. C. 20540



LEGEND

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Spot elevation, 100 feet	.....
Spot elevation, 500 feet	.....
Spot elevation, 1000 feet	.....
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Spot elevation, 99000 feet	.....
Spot elevation, 100000 feet	.....

ROAD CLASSIFICATION

Primary highway, two-lane, 20 feet or more wide

Secondary highway, two-lane, 16 feet or more wide

Local road, 12 feet or more wide

Track, 8 feet or more wide

Unimproved road, 4 feet or more wide

Unimproved road, 2 feet or more wide

Unimproved road, 1 foot or more wide

Unimproved road, 6 inches or more wide

Unimproved road, 3 inches or more wide

Unimproved road, 1.5 inches or more wide

Unimproved road, 0.75 inches or more wide

Unimproved road, 0.375 inches or more wide

Unimproved road, 0.1875 inches or more wide

Unimproved road, 0.09375 inches or more wide

Unimproved road, 0.046875 inches or more wide

Unimproved road, 0.0234375 inches or more wide

Unimproved road, 0.01171875 inches or more wide

Unimproved road, 0.005859375 inches or more wide

Unimproved road, 0.0029296875 inches or more wide

Unimproved road, 0.00146484375 inches or more wide

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Unimproved road, 0.0000000000000000000000000000000184889274658636694444436734693869546875 inches or more wide

Unimproved road, 0.00000000000000000000000000000000924446373293183322222236734693869546875 inches or more wide

Unimproved road, 0.00000000000000000000000000000000462223186646591661111136734693869546875 inches or more wide

Unimproved road, 0.0000000000000000000000000000000023111159332329583055556734693869546875 inches or more wide

Unimproved road, 0.000000000000000000000000000000001155557966615292652777836734693869546875 inches or more wide

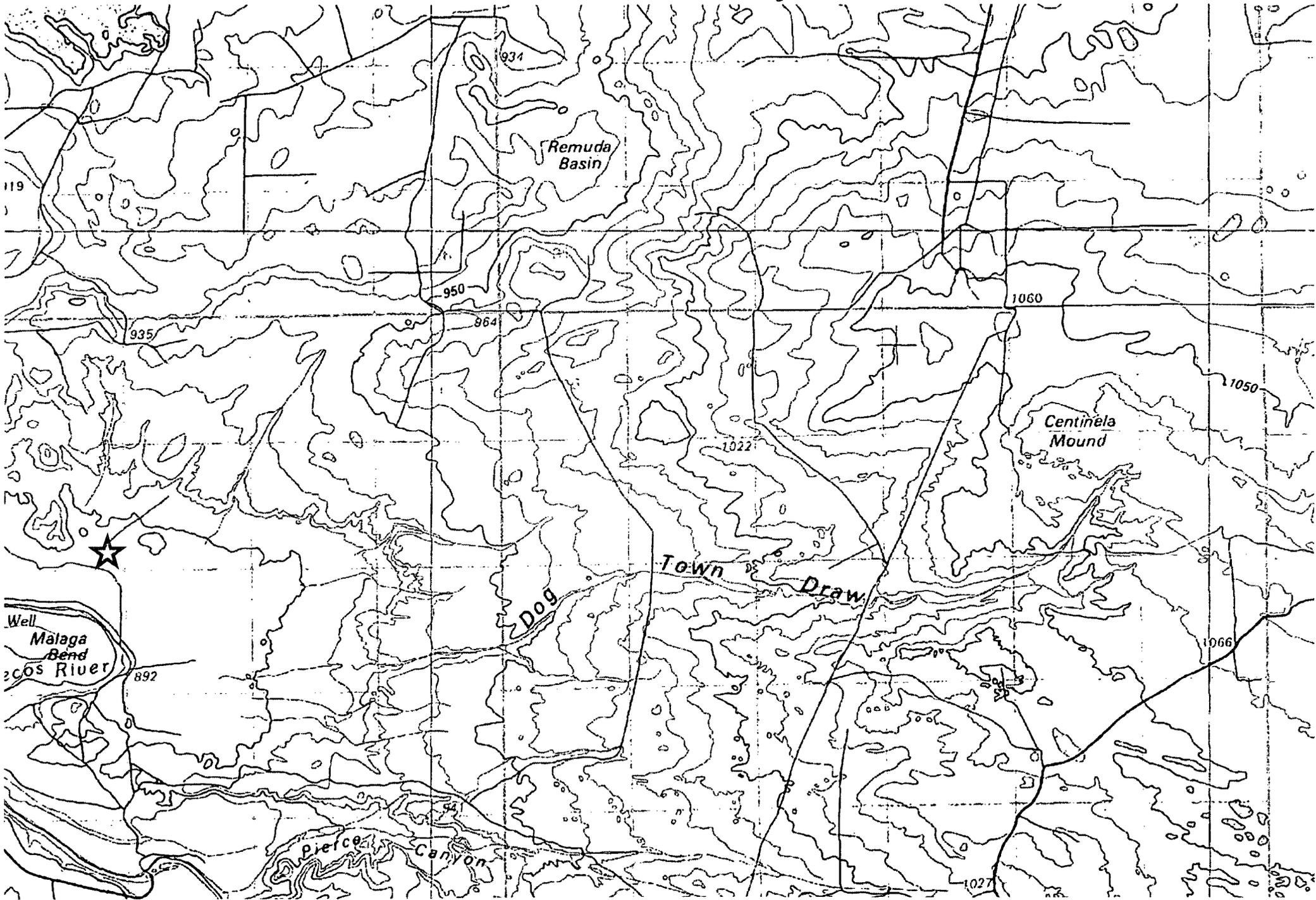
Unimproved road, 0.00000000000000000000000000000000057777898330764632638886734693869546875 inches or more wide

Unimproved road, 0.00000000000000000000000000000000028888949165382316319444436734693869546875 inches or more wide

Unimproved road, 0.000000000000000000000000000000000144444745826911665972222

Oxy

# Harroun 9-1 Battery



**Laboratory Analytical Results Summary  
Harroun 9-1**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.100	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.072</b>	<b>0.166</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.607</b>	<b>1.14</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.655</b>	<b>2.04</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>1.33</b>	<b>3.35</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>928</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>52.6</b>	<b>107</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>3060</b>	<b>3710</b>	<b>65</b>

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 4'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.100	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.109</b>	<b>0.138</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.618</b>	<b>0.776</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>1.37</b>	<b>1.76</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>2.1</b>	<b>2.67</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>928</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>43.2</b>	<b>79.2</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>2370</b>	<b>3640</b>	<b>31.6</b>

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.251</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.68</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>2.39</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>4.32</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>336</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>67.1</b>	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>3970</b>	<b>50.9</b>	<b>19</b>

July 15, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: HARROUN 9-1

Enclosed are the results of analyses for samples received by the laboratory on 07/11/13 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1 FT (H301621-01)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<b>0.072</b>	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<b>0.607</b>	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<b>0.655</b>	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>1.33</b>	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 192 % 89.4-126

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>368</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>52.6</b>	10.0	07/12/2013	ND	210	105	200	1.01		
<b>DRO &gt;C10-C28</b>	<b>3060</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2 FT (H301621-02)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<b>0.166</b>	0.100	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<b>1.14</b>	0.100	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<b>2.04</b>	0.300	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>3.35</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 165 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>928</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>107</b>	10.0	07/12/2013	ND	210	105	200	1.01		
<b>DRO &gt;C10-C28</b>	<b>3710</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 146 % 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:	07/11/2013	Sampling Date:	07/09/2013
Reported:	07/15/2013	Sampling Type:	Soil
Project Name:	HARROUN 9-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 4 FT (H301621-03)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	65.0	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301621-04)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	0.109	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	0.618	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	1.37	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>2.10</b>	<b>0.300</b>	<b>07/13/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 169 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	43.2	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	2370	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Caley 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2 FT (H301621-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<b>0.138</b>	0.100	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<b>0.776</b>	0.100	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<b>1.76</b>	0.300	07/13/2013	ND	6.52	109	6.00	2.37		
<b>Total BTEX</b>	<b>2.67</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 157 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>928</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>79.2</b>	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	<b>3640</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 149 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4 FT (H301621-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

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	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	31.6	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1 FT (H301621-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<b>0.251</b>	0.100	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<b>1.68</b>	0.100	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<b>2.39</b>	0.300	07/13/2013	ND	6.52	109	6.00	2.37		
<b>Total BTEX</b>	<b>4.32</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 216 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>336</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>67.1</b>	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	<b>3970</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2 FT (H301621-08)**

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	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	50.9	10.0	07/12/2013	ND	219	109	200	0.277		

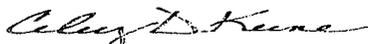
Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.5 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3 FT (H301621-09)**

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	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

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	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	19.0	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**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.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company:																									
City: Hobbs		State: NM		Zip: 88241		Attn:																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																									
Project #:		Project Owner: <i>OKY</i>		City: <i>SAME</i>																									
Project Name: <i>HARROUN 9-1</i>				State:																									
Project Location: <i>Malaga</i>				Zip:																									
Sampler Name: <i>GARY RAY</i>				Phone #:																									
Fax #:																													
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV			SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<i>GL</i>	<i>TPH</i>	<i>B-Tex</i>												
<i>H3D1621</i>																													
	<i>1</i>	<i>SP1@ 2FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>11:50</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>2</i>	<i>SP 1@ 2FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>2:15</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>3</i>	<i>SP 1@ 4FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>1:40</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>4</i>	<i>SP 2@ 2FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>8:10</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>5</i>	<i>SP 2@ 2FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>2:21</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>6</i>	<i>SP 2@ 4FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>2:42</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>7</i>	<i>SP 3@ 1FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>3:15</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>8</i>	<i>SP 3@ 2FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>3:23</i>	<i>X</i>	<i>X</i>	<i>X</i>												
	<i>9</i>	<i>SP 3@ 3FT</i>	<i>6</i>	<i>2</i>		<i>X</i>				<i>X</i>			<i>7-9-13</i>	<i>3:35</i>	<i>X</i>	<i>X</i>	<i>X</i>												

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Relinquished By:		Date: <i>7/11/13</i>		Received By: <i>Jodi Henson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>11:40</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <i>UPS</i>				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<i>[Signature]</i>			

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

*#54*

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Friday, October 04, 2013 9:08 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Harroun 9-1 Battery-Remediation Plan

Reference: OXY USA \* Harroun 9-1 \* 30-015-34997 \* P-9-24s-29e \* Eddy County, New Mexico  
OCD Tracking Number: 2RP-1699 \* Date of release: 6/13/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify the OCD District 2 office prior to commencement of remedial activities. OCD records and email correspondence from BLM indicate that this site is situated on private owned surface. In the event the proposed excavation depths are not achieved, contact me prior to backfilling.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Saturday, September 21, 2013 4:23 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Harroun 9-1 Battery-Remediation Plan

Mike,

This e-mail is to confirm our conversation the other day about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate the leak area represented by sample points SP1-SP2 to a depth of 2.5 feet. The area represented by SP3 will be excavated to a depth of 1.5 feet or as practicable. The site will then be backfilled with the appropriate type of clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

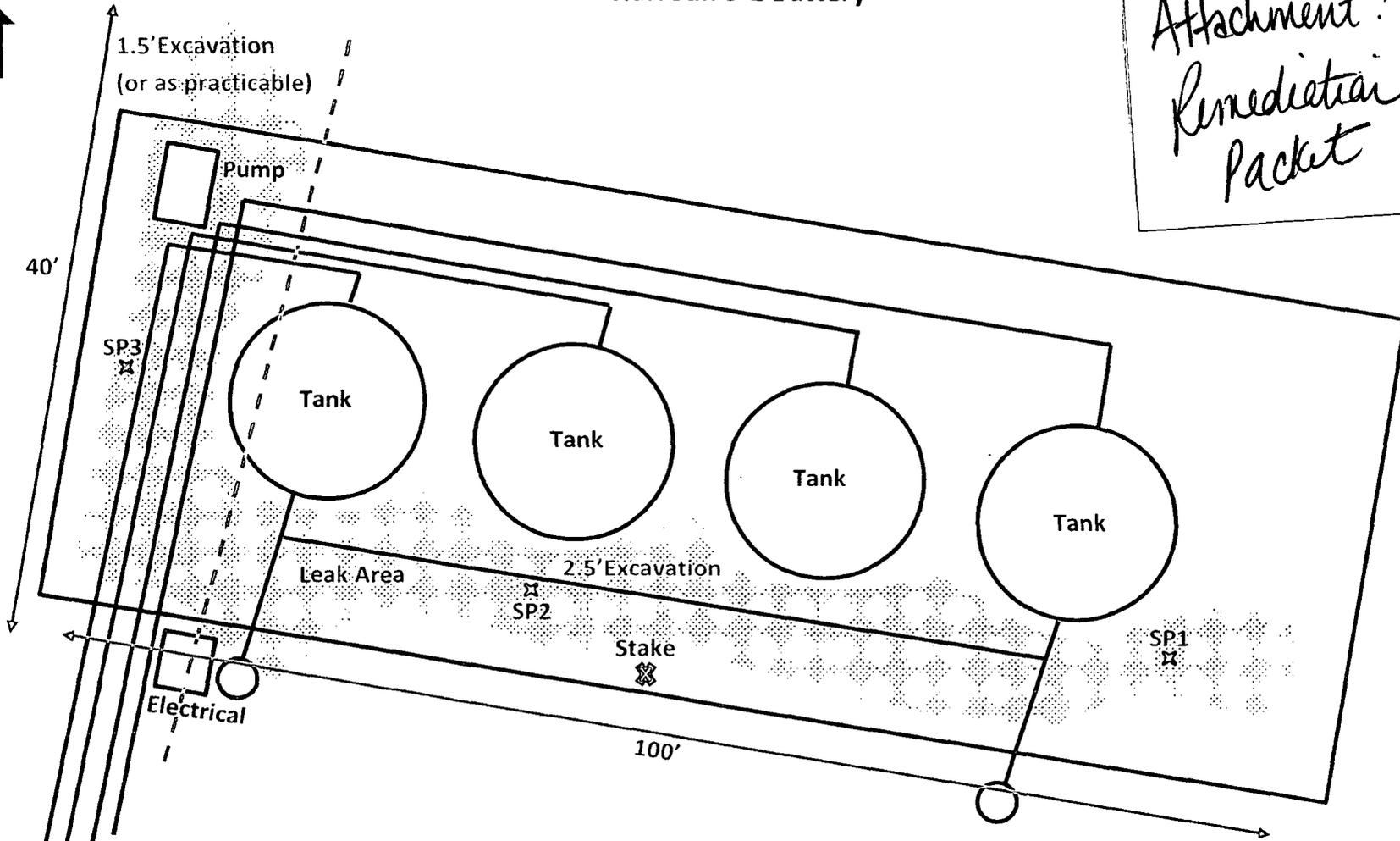
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\*\*\*\*\*



Oxy  
Harroun 9-1 Battery

Attachment:  
Remediation  
Packet



U/L P, Section 9, T24S, R29E  
530' FSL and 330' FEL  
Eddy County, NM  
N 32.22675° W 103.98229°  
API# 30-015-34997

BBC International, Inc.	
Oxy Harroun 9-1 Battery	
Date: 07/03/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy Harroun 9-1 Battery

County  
Eddy

Unit Letter  
P

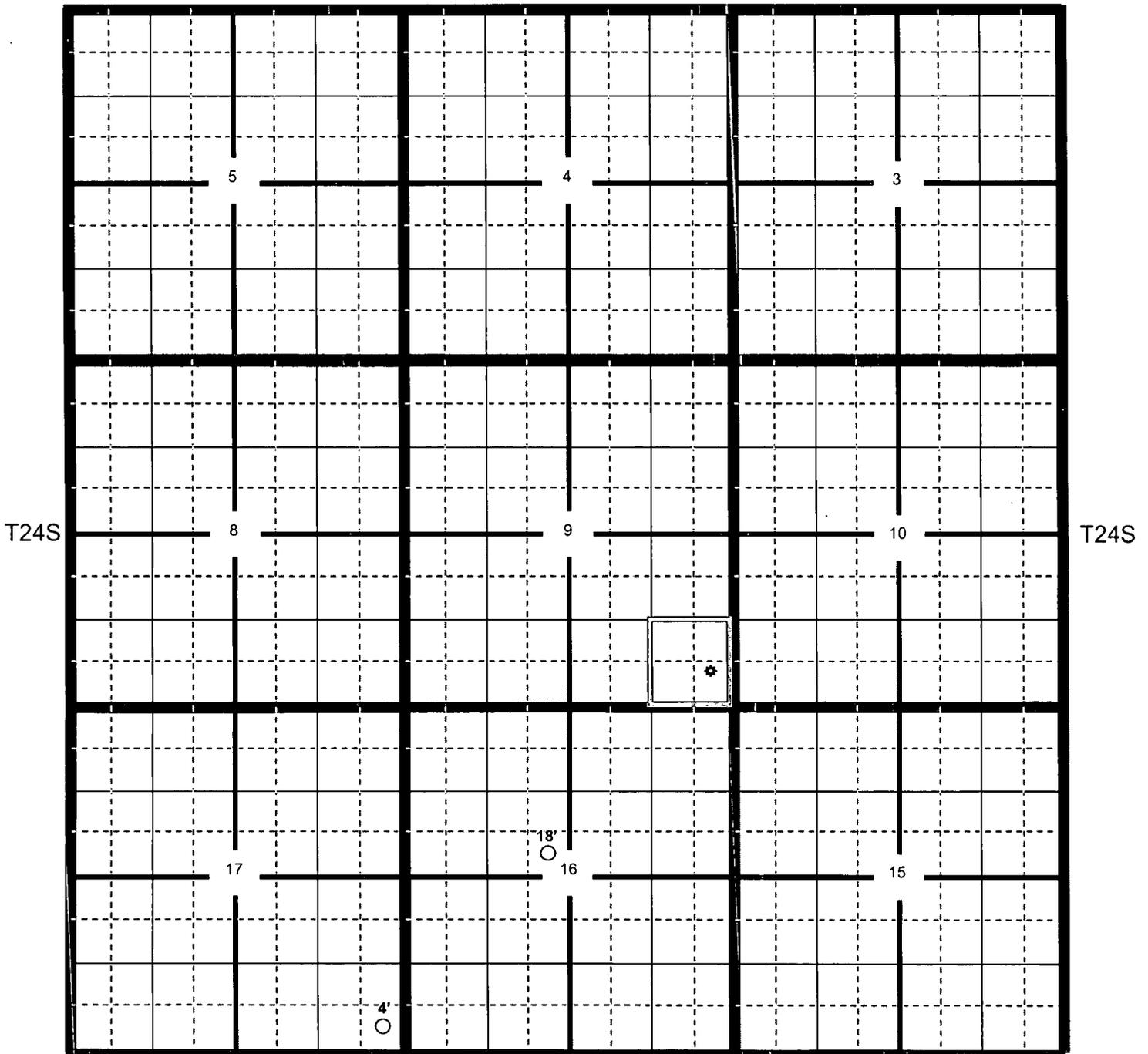
Section  
9

Township  
24S

Range  
29E

Trend Map 75'

R29E



★ Location

○ OCD

○ USGS

○ SEO

★ All Databases



Section Quarters

Oxy Harroun 9-1 Battery

County  
Eddy

Unit Letter  
P

Section  
9

Township  
24S

Range  
29E

Trend Map 75'

1

2

NW/NW NONE	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

☼ Location

○ OCD

○ USGS

○ SEO

☼ All Databases

**Laboratory Analytical Results Summary  
Harroun 9-1**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 4'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.100	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.072</b>	<b>0.166</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.607</b>	<b>1.14</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.655</b>	<b>2.04</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>1.33</b>	<b>3.35</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>928</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>52.6</b>	<b>107</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>3060</b>	<b>3710</b>	<b>65</b>

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 4'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.100	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.109</b>	<b>0.138</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.618</b>	<b>0.776</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>1.37</b>	<b>1.76</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>2.1</b>	<b>2.67</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>368</b>	<b>928</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>43.2</b>	<b>79.2</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>2370</b>	<b>3640</b>	<b>31.6</b>

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	7/9/13	7/9/13	7/9/13
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.251</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.68</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>2.39</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>4.32</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>336</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>67.1</b>	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>3970</b>	<b>50.9</b>	<b>19</b>

July 15, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARROUN 9-1

Enclosed are the results of analyses for samples received by the laboratory on 07/11/13 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



Caley 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1 FT (H301621-01)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	0.072	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	0.607	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	0.655	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>1.33</b>	<b>0.300</b>	<b>07/13/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 192 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	52.6	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	3060	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2 FT (H301621-02)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<b>0.166</b>	0.100	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<b>1.14</b>	0.100	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<b>2.04</b>	0.300	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>3.35</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 165 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>928</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>107</b>	10.0	07/12/2013	ND	210	105	200	1.01		
<b>DRO &gt;C10-C28</b>	<b>3710</b>	10.0	07/12/2013	ND	219	109	200	0.277		

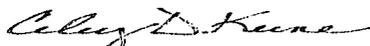
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 146 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4 FT (H301621-03)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<0.050	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	65.0	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1 FT (H301621-04)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.00	100	2.00	0.794		
Toluene*	<b>0.109</b>	0.050	07/13/2013	ND	1.97	98.3	2.00	0.379		
Ethylbenzene*	<b>0.618</b>	0.050	07/13/2013	ND	2.00	100	2.00	0.131		
Total Xylenes*	<b>1.37</b>	0.150	07/13/2013	ND	5.94	99.1	6.00	0.169		
<b>Total BTEX</b>	<b>2.10</b>	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 169 % 89.4-126

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>368</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>43.2</b>	10.0	07/12/2013	ND	210	105	200	1.01		
<b>DRO &gt;C10-C28</b>	<b>2370</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2 FT (H301621-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<b>0.138</b>	0.100	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<b>0.776</b>	0.100	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<b>1.76</b>	0.300	07/13/2013	ND	6.52	109	6.00	2.37		
<b>Total BTEX</b>	<b>2.67</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 157 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>928</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>79.2</b>	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	<b>3640</b>	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 149 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4 FT (H301621-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

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	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	31.6	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 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: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1 FT (H301621-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<b>0.251</b>	0.100	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<b>1.68</b>	0.100	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<b>2.39</b>	0.300	07/13/2013	ND	6.52	109	6.00	2.37		
<b>Total BTEX</b>	<b>4.32</b>	0.600	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 216 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>336</b>	16.0	07/15/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<b>67.1</b>	10.0	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	<b>3970</b>	10.0	07/12/2013	ND	219	109	200	0.277		

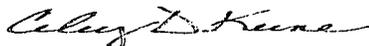
Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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

 Received: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2 FT (H301621-08)**

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	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	50.9	10.0	07/12/2013	ND	219	109	200	0.277		

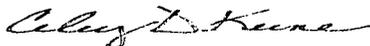
Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.5 % 63.6-154

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

 Received: 07/11/2013  
 Reported: 07/15/2013  
 Project Name: HARROUN 9-1  
 Project Number: NONE GIVEN  
 Project Location: MALAGA, NM

 Sampling Date: 07/09/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3 FT (H301621-09)**

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	07/13/2013	ND	2.22	111	2.00	1.52		
Toluene*	<0.050	0.050	07/13/2013	ND	2.16	108	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/13/2013	ND	2.19	109	2.00	2.43		
Total Xylenes*	<0.150	0.150	07/13/2013	ND	6.52	109	6.00	2.37		
Total BTEX	<0.300	0.300	07/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

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	07/15/2013	ND	400	100	400	0.00		

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	07/12/2013	ND	210	105	200	1.01		
DRO >C10-C28	19.0	10.0	07/12/2013	ND	219	109	200	0.277		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.0 % 63.6-154

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**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



**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.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: OKY		City: <i>Same</i>													
Project Name: Harroun 9-2		State: Zip:													
Project Location: Malaga		Phone #:													
Sampler Name: Gary RAY		Fax #:													

FOR LAB USE ONLY		GRAB OR (COMP. # CONTAINERS	MATRIX				PRESERV		SAMPLING		GL	TPH	B-TEX												
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL				OTHER:	DATE	TIME									
H3D11621		6	2			X			X		7-9-13	11:50	X	X	X										
	1 SP1@ 2FT	6	2			X			X		7-9-13	2:15	X	X	X										
	2 SP1@ 2FT	6	2			X			X		7-9-13	1:40	X	X	X										
	3 SP1@ 4FT	6	2			X			X		7-9-13	8:10	X	X	X										
	4 SP2@ 2FT	6	2			X			X		7-9-13	2:21	X	X	X										
	5 SP2@ 2FT	6	2			X			X		7-9-13	2:42	X	X	X										
	6 SP2@ 4FT	6	2			X			X		7-9-13	3:15	X	X	X										
	7 SP3@ 1FT	6	2			X			X		7-9-13	3:23	X	X	X										
	8 SP3@ 2FT	6	2			X			X		7-9-13	3:35	X	X	X										
	9 SP3@ 3FT	6	2			X			X		7-9-13	3:35	X	X	X										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7/11/13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 11:40			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Time:				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

† 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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Harroun 9-1	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-34997

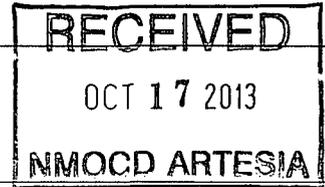
**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	9	24S	29E	530	South	330	East	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	40 bbls oil	Volume Recovered	0 bbls oil
Source of Release	Mechanical error sent oil down a gas line causing tank to overflow	Date and Hour of Occurrence	06/13/2013	Date and Hour of Discovery	06/13/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	06/17/2013 @ 8:03 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 mechanical error sent oil down the gas line causing the tank to overflow and leak 40 bbls of oil to leak onto the ground. No fluids were recovered and mechanical error was corrected.

Describe Area Affected and Cleanup Action Taken.\*  
A mechanical error sent oil down the gas line causing the tank to overflow and leak 40 bbls of oil to leak onto the ground. No fluids were recovered and mechanical error was corrected. Remediation will be conducted in accordance with a 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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxv.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-24-13 Phone: (575) 397-8216			

\* Attach Additional Sheets If Necessary