

RECEIVED

By OCD District 1 at 8:39 am, Jul 15, 2015

Closure Report**APPROVED**

By OCD District 1 at 8:39 am, Jul 15, 2015

Site Description

Site Name:	HV Pike 3 Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 6, T23S, R38E
County:	Lea County, NM
GPS Coordinates:	N 32.33908° W 103.10629°

Release Data

Date of Release:	04/22/2014
Type of Release:	Oil
Source of Release:	Leak on heater fire tube gasket caused by stress/fatigue
Volume of Release:	30 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 2.5 feet. Excavate the area around SP2 to a depth of 1 foot. Remove the impacted soil from inside the lined battery. Backdrag the overspray area. Backfill the site with clean soil.	
Remediation Activities:	05/18/2015 to 06/12/2015	
Plan Sent to OCD:	10/20/2014	Email from Cliff Brunson to Tomas Oberding
OCD Approval of Plan:	10/20/2014	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 04/23/2014
Final C-141	Signed 06/18/2015
Site Diagram	May 2014
Groundwater Plot	100'
TOPO Maps	May 2014
Lab Summary	08/28/2014
Lab Analysis	08/28/2014
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.

07/14/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	H V Pike 3 Battery	Facility Type	Gathering
Surface Owner	Private	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	6	23S	38E					Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Leak on heater fire tube gasket caused by stress/fatigue	Date and Hour of Occurrence	4/22/2014	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	4/22/2014 @ 4:12 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.*

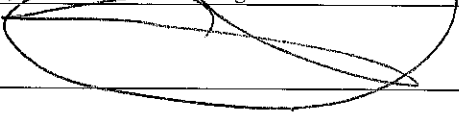
Describe Cause of Problem and Remedial Action Taken.*

Stress and/or fatigue on a fire tube gasket caused 30 bbls of oil to leak onto the ground. No fluids were recovered and the gasket was replaced or repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 40' x 80' inside the plastic-lined berm. Remediation will be completed in accordance with a 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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 4-23-14 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	HV Pike #3 Battery	Facility Type	Gathering
Surface Owner	Private	Mineral Owner	API No. 30-025-34951

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SW ¼	6	23S	38E					Lea County, NM

Latitude N 32.33908° Longitude W 103.10629°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Leak on heater fire tube gasket caused by stress/fatigue	Date and Hour of Occurrence	04/22/2014	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	04/22/2014 @ 4:12 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.*

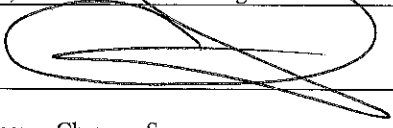
Describe Cause of Problem and Remedial Action Taken.*

Stress and/or fatigue on a fire tube gasket caused 30 bbls of oil to leak onto the ground. No fluids were recovered and the gasket was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 50' with most of the spill contained inside the firewall. A small leak area went on the pad and slightly west of the pad. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/20/2014.

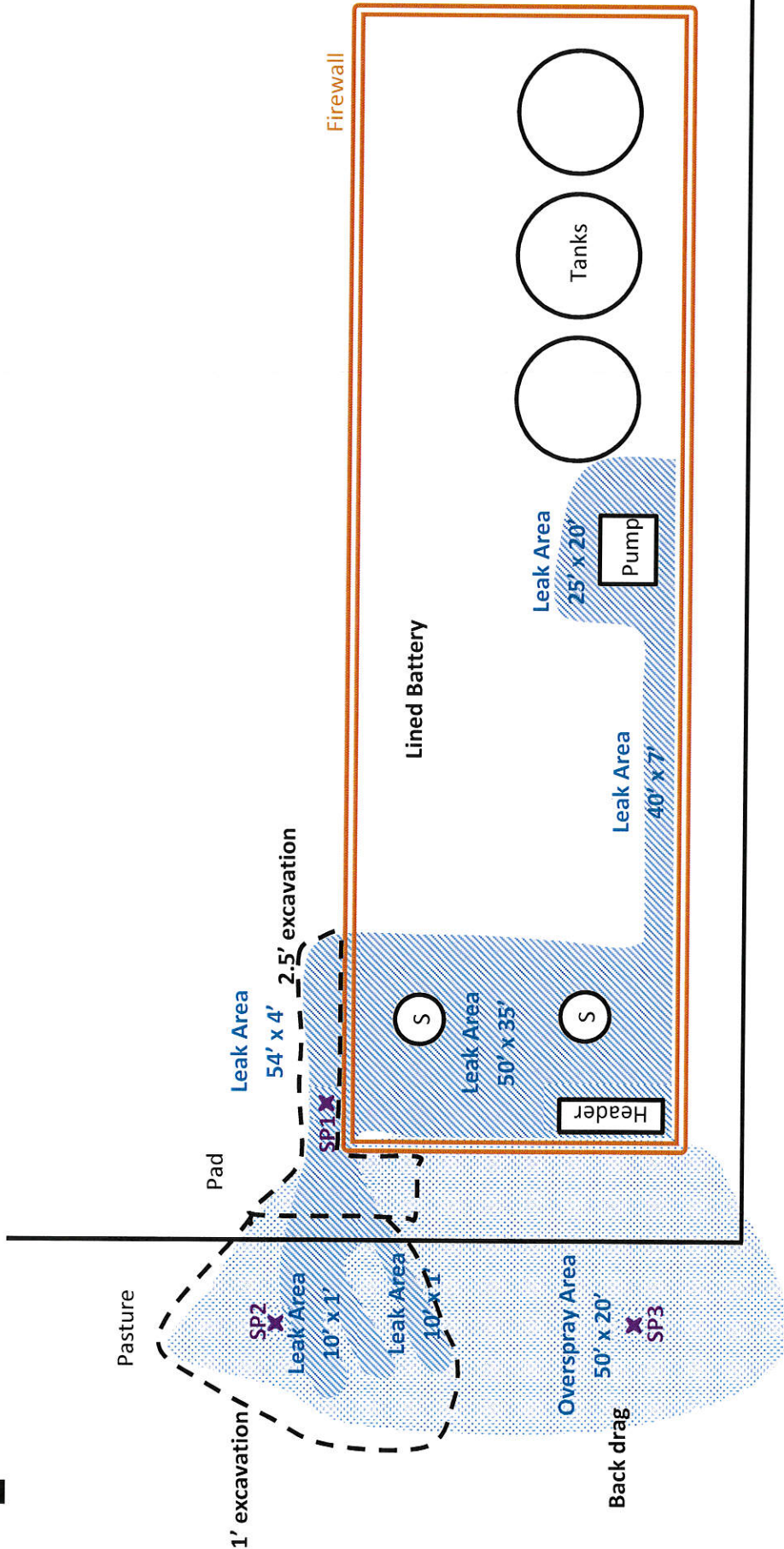
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <u>Chancey_Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>6-18-15</u>	Phone: (432) 685-5824		

* Attach Additional Sheets If Necessary



Oxy
H V Pike 3 Battery



U/L D, Section 6, T23S, R38E
Lea County, NM
N 32.33908° W 103.10629°
API# 30-025-34951°

BBC International, Inc.	
Oxy	
H V Pike 3 Battery	
Date: 05/07/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

Groundwater Plot

Oxy H V Pike 3 Battery

County
Lea

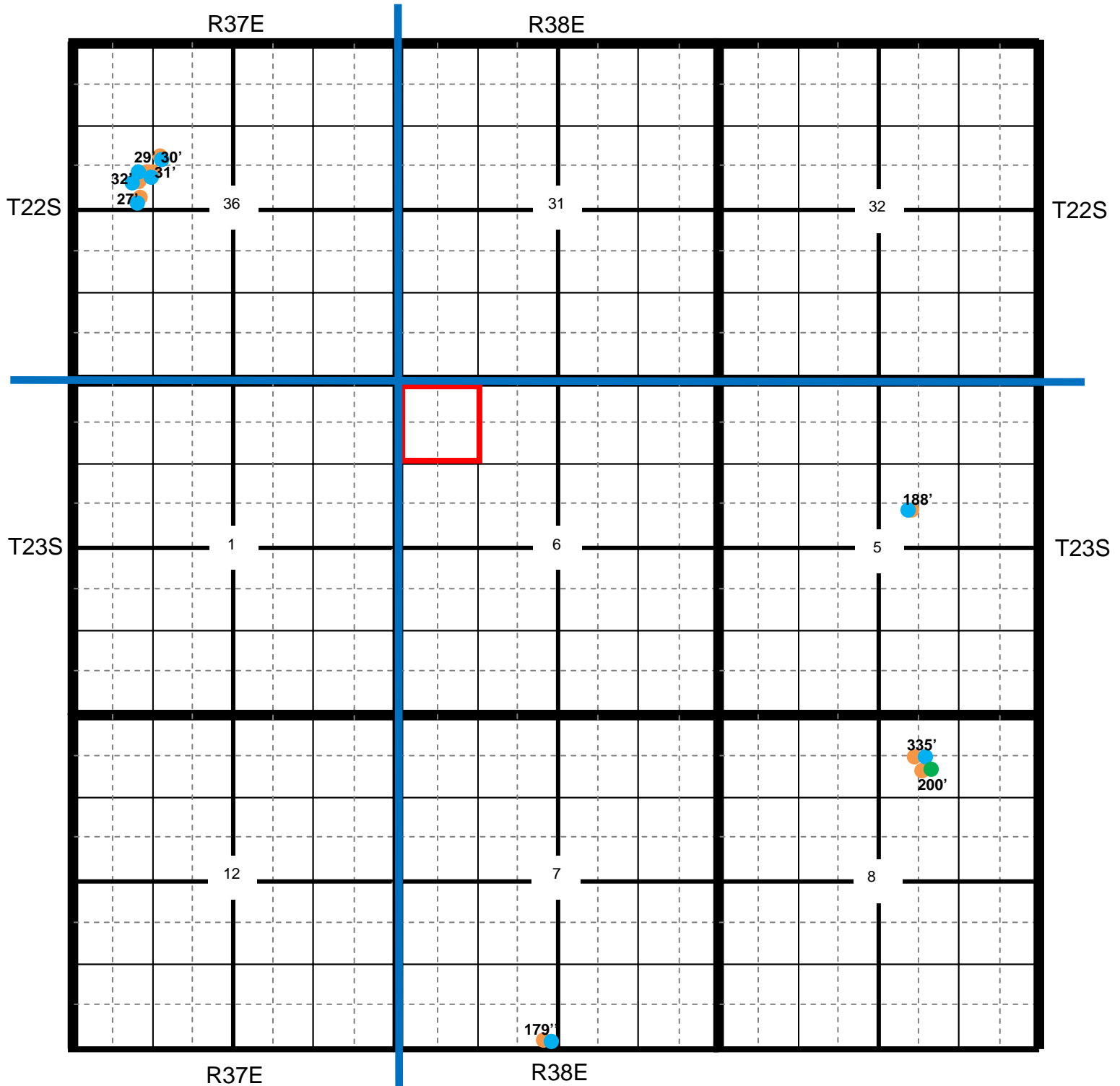
Unit Letter
D

Section
6

Township
23S

Range
38E

Trend Map 100'



Location

OCD

USGS

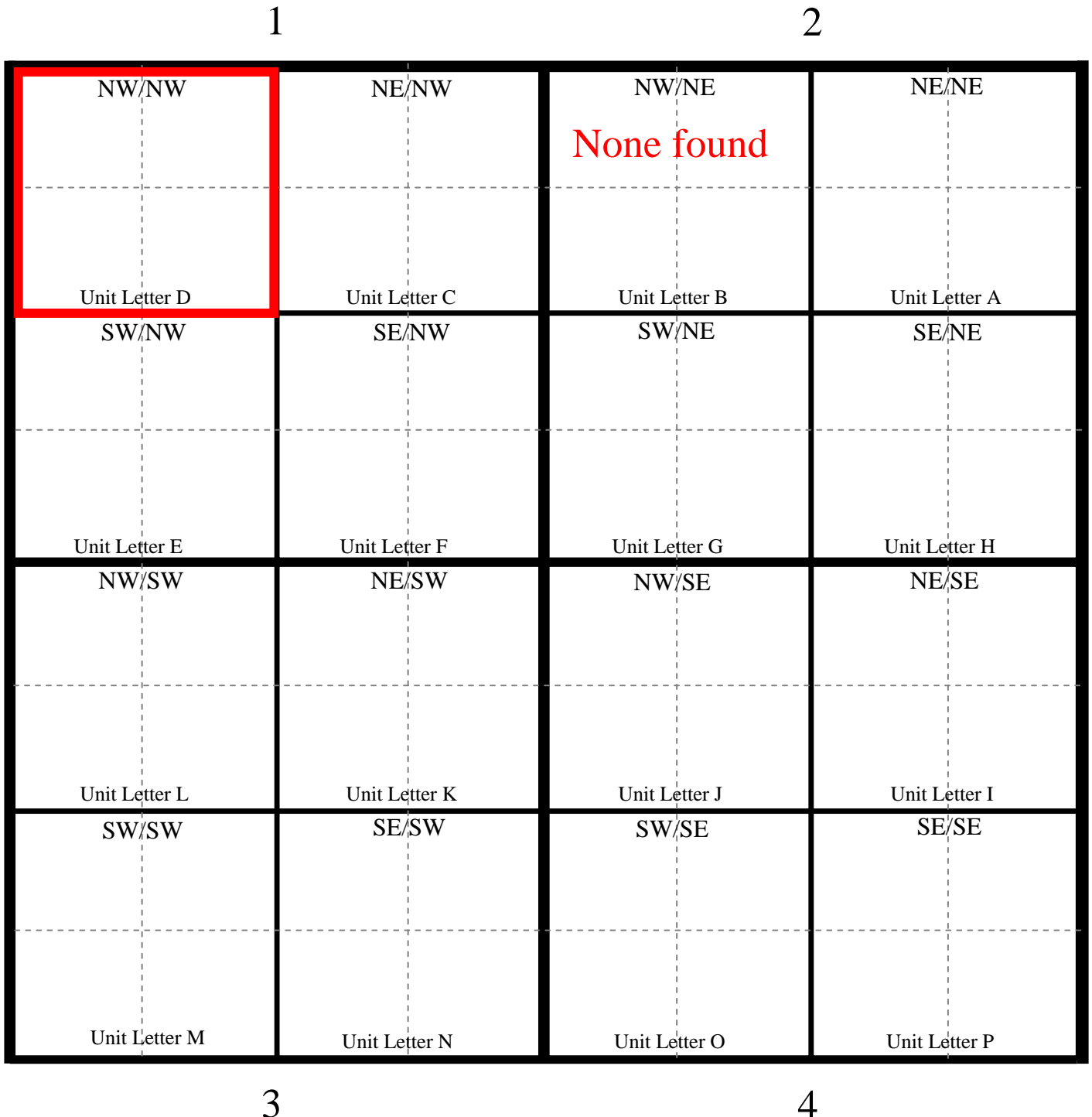
SEO

All Databases

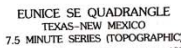
Oxy H V Pike 3 Battery

County	Unit Letter	Section	Township	Range
Lea	D	6	23S	38E

Trend Map 100'

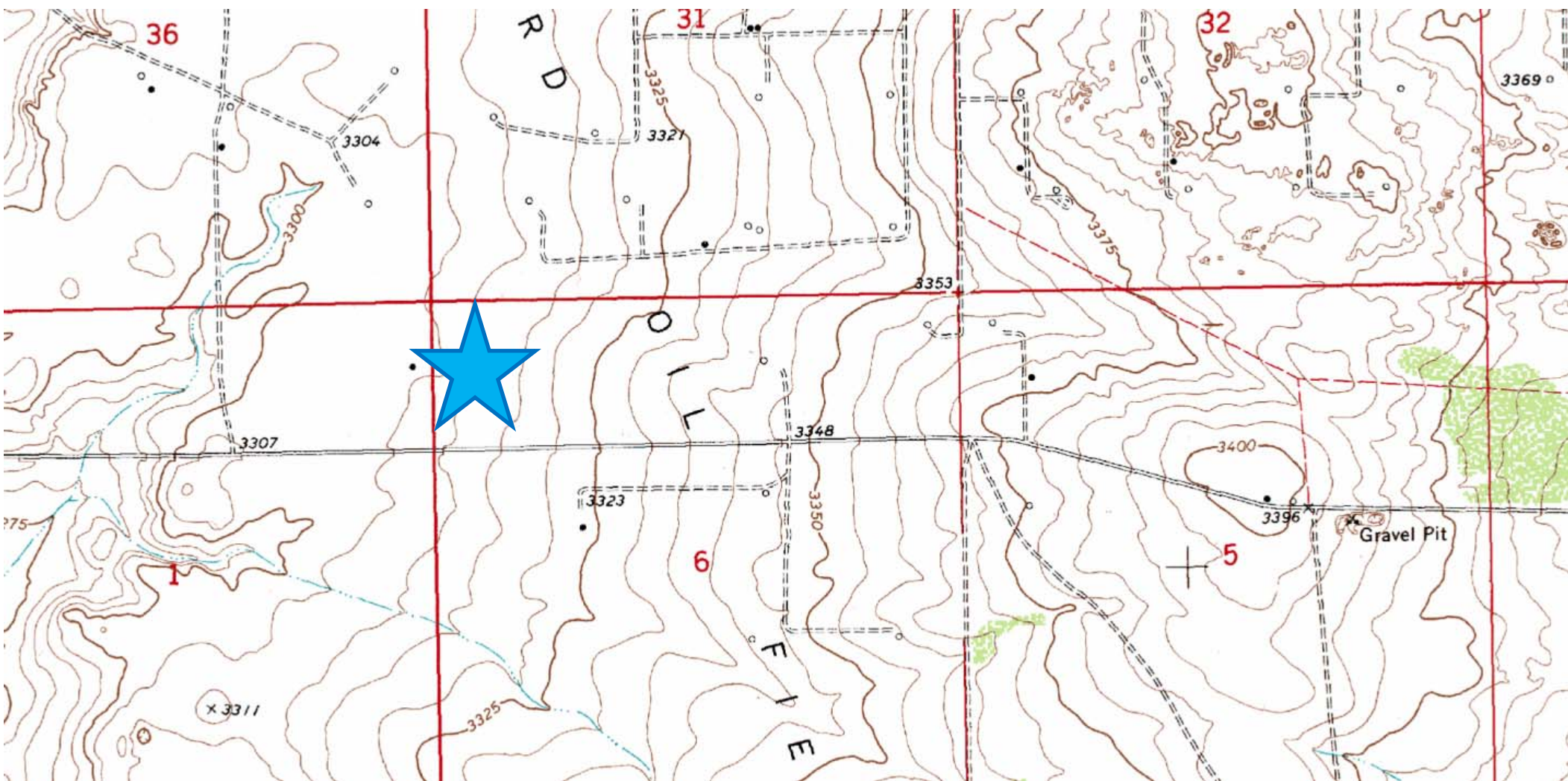


Oxy



Oxy

H V Pike 3 Battery



**Laboratory Analytical Results Summary
HV Pike #3 Battery**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/28/14	8/28/14	8/28/14	8/28/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.500	<0.050
Toluene	BTEX 8021B		0.173	<0.050	<0.500	<0.050
Ethylbenzene	BTEX 8021B		0.256	<0.050	1.81	<0.050
Total Xylenes	BTEX 8021B		1.11	<0.150	5.52	<0.150
Total BTEX	BTEX 8021B		1.54	<0.300	7.33	<0.300
Chloride	SM4500CI-B		80	<16.0	<16.0	<16.0
GRO	TPH 8015M		90.2	<10.0	756	13.4
DRO	TPH 8015M		18500	14	9110	450

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	8/28/14	8/28/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		0.24	<0.050
Ethylbenzene	BTEX 8021B		0.465	0.482
Total Xylenes	BTEX 8021B		1.79	1.25
Total BTEX	BTEX 8021B		2.5	1.73
Chloride	SM4500CI-B		48	<16.0
GRO	TPH 8015M		196	46.6
DRO	TPH 8015M		17400	883

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	8/28/14	8/28/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		11.5	<20.0
DRO	TPH 8015M		11.2	<20.0

September 08, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: H V PIKE #3 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/29/14 16:15.

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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H402687-01)

BTX 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	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	0.173	0.100	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	0.256	0.100	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	1.11	0.300	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTX	1.54	0.600	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	09/08/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	90.2	50.0	09/03/2014	ND	188	94.0	200	5.33		
DRO >C10-C28	18500	50.0	09/03/2014	ND	248	124	200	7.56		

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 670 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 (H402687-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2014	ND	1.87	93.5	2.00	7.35		
Toluene*	<0.050	0.050	09/04/2014	ND	1.73	86.6	2.00	7.36		
Ethylbenzene*	<0.050	0.050	09/04/2014	ND	1.63	81.7	2.00	7.18		
Total Xylenes*	<0.150	0.150	09/04/2014	ND	4.95	82.4	6.00	6.76		
Total BTEX	<0.300	0.300	09/04/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	09/08/2014	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	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	14.0	10.0	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 136 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2 (H402687-03)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	<0.500	0.500	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	1.81	0.500	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	5.52	1.50	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTEX	7.33	3.00	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	<16.0	16.0	09/08/2014	ND	400	100	400	0.00			

TPH 8015M			mg/kg					Analyzed By: ms		S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	756	100	09/03/2014	ND	188	94.0	200	5.33			
DRO >C10-C28	9110	100	09/03/2014	ND	248	124	200	7.56			

Surrogate: 1-Chlorooctane 191 % 65.2-140

Surrogate: 1-Chlorooctadecane 273 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3 (H402687-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	<0.050	0.050	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	<0.050	0.050	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	<0.150	0.150	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTX	<0.300	0.300	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	<16.0	16.0	09/08/2014	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	13.4	10.0	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	450	10.0	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H402687-05)

BTX 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	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	0.240	0.100	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	0.465	0.100	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	1.79	0.300	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTX	2.50	0.600	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	48.0	16.0	09/08/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	196	100	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	17400	100	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 609 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H402687-06)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	<0.050	0.050	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	0.482	0.050	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	1.25	0.150	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTEX	1.73	0.300	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 208 % 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	<16.0	16.0	09/08/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	46.6	10.0	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	883	10.0	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 145 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H402687-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	<0.050	0.050	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	<0.050	0.050	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	<0.150	0.150	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTX	<0.300	0.300	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	09/08/2014	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	11.5	10.0	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	11.2	10.0	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 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: 08/29/2014
Reported: 09/08/2014
Project Name: H V PIKE #3 BATTERY
Project Number: NONE GIVEN
Project Location: OXY

Sampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H402687-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2014	ND	1.87	93.5	2.00	7.35	
Toluene*	<0.050	0.050	09/04/2014	ND	1.73	86.6	2.00	7.36	
Ethylbenzene*	<0.050	0.050	09/04/2014	ND	1.63	81.7	2.00	7.18	
Total Xylenes*	<0.150	0.150	09/04/2014	ND	4.95	82.4	6.00	6.76	
Total BTX	<0.300	0.300	09/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	09/08/2014	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	<20.0	20.0	09/03/2014	ND	188	94.0	200	5.33	
DRO >C10-C28	<20.0	20.0	09/03/2014	ND	248	124	200	7.56	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 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.
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

104

Company Name: BBC International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST																											
Project Manager: Cliff Brunson		Company:																																							
Address: P.O. Box 805		City: Hobbs		State: NM		Zip: 88241		Attn:																																	
Phone #: 575-397-6388		Fax #: 575-397-0397		City:		State:		Zip:																																	
Project #:		Project Owner: XX		City:		State:		Zip:																																	
Project Name: BY the 3-Pike #3 Battery *		Phone #:		City:		State:		Zip:																																	
Project Location:		Phone #:		City:		State:		Zip:																																	
Sample Name: Free Sample		Fax #:		City:		State:		Zip:																																	
FOR LAB USE ONLY		DATE		TIME		DATE		TIME																																	
Lab I.D. 14102687		Sample I.D.		G/RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV		SAMPLING																													
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:																					
1. 3101.0		3101.0		1		1		W		W		W		W		W		W		W																					
2. 3102.0		3102.0		1		1		W		W		W		W		W		W		W																					
3. 3103.0		3103.0		1		1		W		W		W		W		W		W		W																					
4. 3104.0		3104.0		1		1		W		W		W		W		W		W		W																					
5. 3105.0		3105.0		1		1		W		W		W		W		W		W		W																					
6. 3106.0		3106.0		1		1		W		W		W		W		W		W		W																					
7. 3107.0		3107.0		1		1		W		W		W		W		W		W		W																					
8. 3108.0		3108.0		1		1		W		W		W		W		W		W		W																					
9. 3109.0		3109.0		1		1		W		W		W		W		W		W		W																					
10. 3110.0		3110.0		1		1		W		W		W		W		W		W		W																					
11. 3111.0		3111.0		1		1		W		W		W		W		W		W		W																					
12. 3112.0		3112.0		1		1		W		W		W		W		W		W		W																					
13. 3113.0		3113.0		1		1		W		W		W		W		W		W		W																					
14. 3114.0		3114.0		1		1		W		W		W		W		W		W		W																					
15. 3115.0		3115.0		1		1		W		W		W		W		W		W		W																					
16. 3116.0		3116.0		1		1		W		W		W		W		W		W		W																					
17. 3117.0		3117.0		1		1		W		W		W		W		W		W		W																					
18. 3118.0		3118.0		1		1		W		W		W		W		W		W		W																					
19. 3119.0		3119.0		1		1		W		W		W		W		W		W		W																					
20. 3120.0		3120.0		1		1		W		W		W		W		W		W		W																					
21. 3121.0		3121.0		1		1		W		W		W		W		W		W		W																					
22. 3122.0		3122.0		1		1		W		W		W		W		W		W		W																					
23. 3123.0		3123.0		1		1		W		W		W		W		W		W		W																					
24. 3124.0		3124.0		1		1		W		W		W		W		W		W		W																					
25. 3125.0		3125.0		1		1		W		W		W		W		W		W		W																					
26. 3126.0		3126.0		1		1		W		W		W		W		W		W		W																					
27. 3127.0		3127.0		1		1		W		W		W		W		W		W		W																					
28. 3128.0		3128.0		1		1		W		W		W		W		W		W		W																					
29. 3129.0		3129.0		1		1		W		W		W		W		W		W		W																					
30. 3130.0		3130.0		1		1		W		W		W		W		W		W		W																					
31. 3131.0		3131.0		1		1		W		W		W		W		W		W		W																					
32. 3132.0		3132.0		1		1		W		W		W		W		W		W		W																					
33. 3133.0		3133.0		1		1		W		W		W		W		W		W		W																					
34. 3134.0		3134.0		1		1		W		W		W		W		W		W		W																					
35. 3135.0		3135.0		1		1		W		W		W		W		W		W		W																					
36. 3136.0		3136.0		1		1		W		W		W		W		W		W		W																					
37. 3137.0		3137.0		1		1		W		W		W		W		W		W		W																					
38. 3138.0		3138.0		1		1		W		W		W		W		W		W		W																					
39. 3139.0		3139.0		1		1		W		W		W		W		W		W		W																					
40. 3140.0		3140.0		1		1		W		W		W		W		W		W		W																					
41. 3141.0		3141.0		1		1		W		W		W		W		W		W		W																					
42. 3142.0		3142.0		1		1		W		W		W		W		W		W		W																					
43. 3143.0		3143.0		1		1		W		W		W		W		W		W		W																					
44. 3144.0		3144.0		1		1		W		W		W		W		W		W		W																					
45. 3145.0		3145.0		1		1		W		W		W		W		W		W		W																					
46. 3146.0		3146.0		1		1		W		W		W		W		W		W		W																					
47. 3147.0		3147.0		1		1		W		W		W		W		W		W		W																					
48. 3148.0		3148.0		1		1		W		W		W		W		W		W		W																					
49. 3149.0		3149.0		1		1		W		W		W		W		W		W		W																					
50. 3150.0		3150.0		1		1		W		W		W		W		W		W		W																					
51. 3151.0		3151.0		1		1		W		W		W		W		W		W		W																					
52. 3152.0		3152.0		1		1		W		W		W		W		W		W		W																					
53. 3153.0		3153.0		1		1		W		W		W		W		W		W		W																					
54. 3154.0		3154.0		1		1		W		W		W		W		W		W		W																					
55. 3155.0		3155.0		1		1		W		W		W		W		W		W		W																					
56. 3156.0		3156.0		1		1		W		W		W		W		W		W		W																					
57. 3157.0		3157.0		1		1		W		W		W		W		W		W		W																					
58. 3158.0		3158.0		1		1		W		W		W		W		W		W		W																					
59. 3159.0		3159.0		1		1		W		W		W		W		W		W		W																					
60. 3160.0		3160.0		1		1		W		W		W		W		W		W		W																					
61. 3161.0		3161.0		1		1		W		W		W		W		W		W		W																					
62. 3162.0		3162.0		1		1		W		W		W		W		W		W		W																					
63. 3163.0		3163.0		1		1		W		W		W		W		W		W		W																					
64. 3164.0		3164.0		1		1		W		W		W		W		W		W		W																					
65. 3165.0		3165.0		1		1		W		W		W		W		W		W		W																					
66. 3166.0		3166.0		1		1		W		W		W		W		W		W		W																					
67. 3167.0		3167.0		1		1		W		W		W		W		W		W		W																					
68. 3168.0		3168.0		1		1		W		W		W		W		W		W		W																					
69. 3169.0		3169.0		1		1		W		W		W		W		W		W		W																					
70. 3170.0		3170.0		1		1		W		W		W		W		W		W		W																					
71. 3171.0		3171.0		1		1		W		W		W		W		W		W		W																					
72. 3172.0		3172.0		1		1		W		W		W		W		W		W		W																					
73. 3173.0		3173.0		1		1		W		W		W		W		W		W		W																					
74. 3174.0		3174.0		1		1		W		W		W		W		W		W		W																					
75. 3175.0		3175.0		1		1		W		W		W		W		W		W		W																					
76. 3176.0		3176.0		1		1		W		W		W		W		W		W		W																					
77. 3177.0		3177.0		1		1		W		W		W		W		W		W		W																					
78. 3178.0		3178.0		1		1		W		W		W		W		W		W		W																					
79. 3179.0		3179.0		1		1		W		W		W		W		W		W		W																					
80. 3180.0		3180.0		1		1		W		W		W		W		W		W		W																					
81. 3181.0		3181.0		1		1		W		W		W		W		W		W		W																					
82. 3182.0		3182.0		1		1		W		W		W		W		W		W		W																					
83. 3183.0		3183.0		1		1		W		W		W		W		W		W		W																					
84. 3184.0		3184.0		1		1		W		W		W		W		W		W		W																					
85. 3185																																									

Kathy Purvis

From: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>
Sent: Monday, October 20, 2014 1:50 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - H V Pike 3 Battery - Remediation Plan

Aloha Mr Brunson et al,

Thank you again for sending this in.

Based on the sample results OCD approves the prosed work.

There is one concern with SP1 and SP2 in that delineation below the proposed depth was halted at 450 (given the layering evidenced above I should have liked to have seen delineation to the standard 250mg/kg of ~Cl).

Thank you for all your help in keeping our district clean.

Please contact me if you have any questions.

Mahalo

-Doc

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/ocd/>

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, October 20, 2014 12:17 PM
To: Oberding, Tomas, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - H V Pike 3 Battery - Remediation Plan

Tomas,

This e-mail is to confirm our conversation on September 22, 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

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