

Closure Report

Site Description

Site Name:	Federal 12 #2H
Company:	Oxy Permian Ltd.
Legal Description:	U/L O, Section 1, T23S, R30E
County:	Eddy County, NM
GPS Coordinates:	N 32.32977° W 103.83082°

Release Data

Date of Release:	03/18/2014
Type of Release:	Produced water
Source of Release:	Valve left open/ tank overflow
Volume of Release:	45 bbls
Volume Recovered:	20 bbls

Remediation Specifications

Remediation Parameters:	Excavate to a depth slightly deeper than 3 feet in the area of SP1 and take a confirmation sample. Excavate to a depth of 2 feet in the area of SP2. Excavate to a depth of 3.5 feet in the area of SP3 and take a confirmation sample. Backfill the excavated areas with clean soil.	
Remediation Activities:	04/13/2015 to 05/11/2015	
Plan Sent to OCD:	01/12/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/26/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	02/23/2015	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	02/24/2015	Email from Sol Hughes to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 04/16/2014
Final C-141	Signed 05/14/2015
Site Diagram	May 2014
Groundwater Plot	250'
TOPO Maps	May 2014
Lab Summary	07/02/2014, 10/28/2014, and 04/28/2015
Lab Analysis	07/02/2014, 10/28/2014, and 04/28/2015
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.

06/24/2015

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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	Occidental Permian	Contact	Charles F. Bullard Jr.
Address	6 Desta Drive, Ste. 6000, Midland, TX 79705	Telephone No.	(432) 685-5719
Facility Name	Federal 12 #2H	Facility Type	Drilling location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41344

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	23S	30E	1159	South	1543	East	Eddy County, NM

Latitude N 32.32984° Longitude W 103.83012°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	45 bbls	Volume Recovered	20 bbls
Source of Release	Transfer from cellar to open-top tank and valve was left open causing water spill over	Date and Hour of Occurrence	03/18/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Bobby Girndt, BLM		
By Whom?	Tommy Sikes	Date and Hour	03/18/2014 at 6:30 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input 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 transfer from cellar to open-top tank and the valve was left open causing 45 bbls of produced water to leak onto the ground. A vacuum truck recovered 20 bbls of produced water and the transfer/valve were closed.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 40' x 45' around the outside of the sub and along the pipe wrangler. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>C.F. Bullard Jr.</i>	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Charles F. Bullard Jr.	Approved by Environmental Specialist:		
Title: Drilling HES Ops Advisor	Approval Date:	Expiration Date:	
E-mail Address: Charles Bullard@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <i>4/16/14</i>	Phone: (432) 894-3769		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
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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

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Address	6 Desta Drive, Ste. 6000, Midland, TX 79705	Telephone No.	(432) 685-5719
Facility Name	Federal 12 #2H	Facility Type	Drilling location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41344

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	23S	30E	1159	South	1543	East	Eddy County, NM

Latitude N 32.32984° Longitude W 103.83012°

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Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Bobby Girndt, BLM		
By Whom?	Tommy Sikes	Date and Hour	03/18/2014 at 6:30 am		
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The affected area is approximately 40' x 45' around the outside of the sub and along the pipe wrangler. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 01/26/2015 and approved by Sol Hughes of the BLM via email on 02/24/2015.

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.

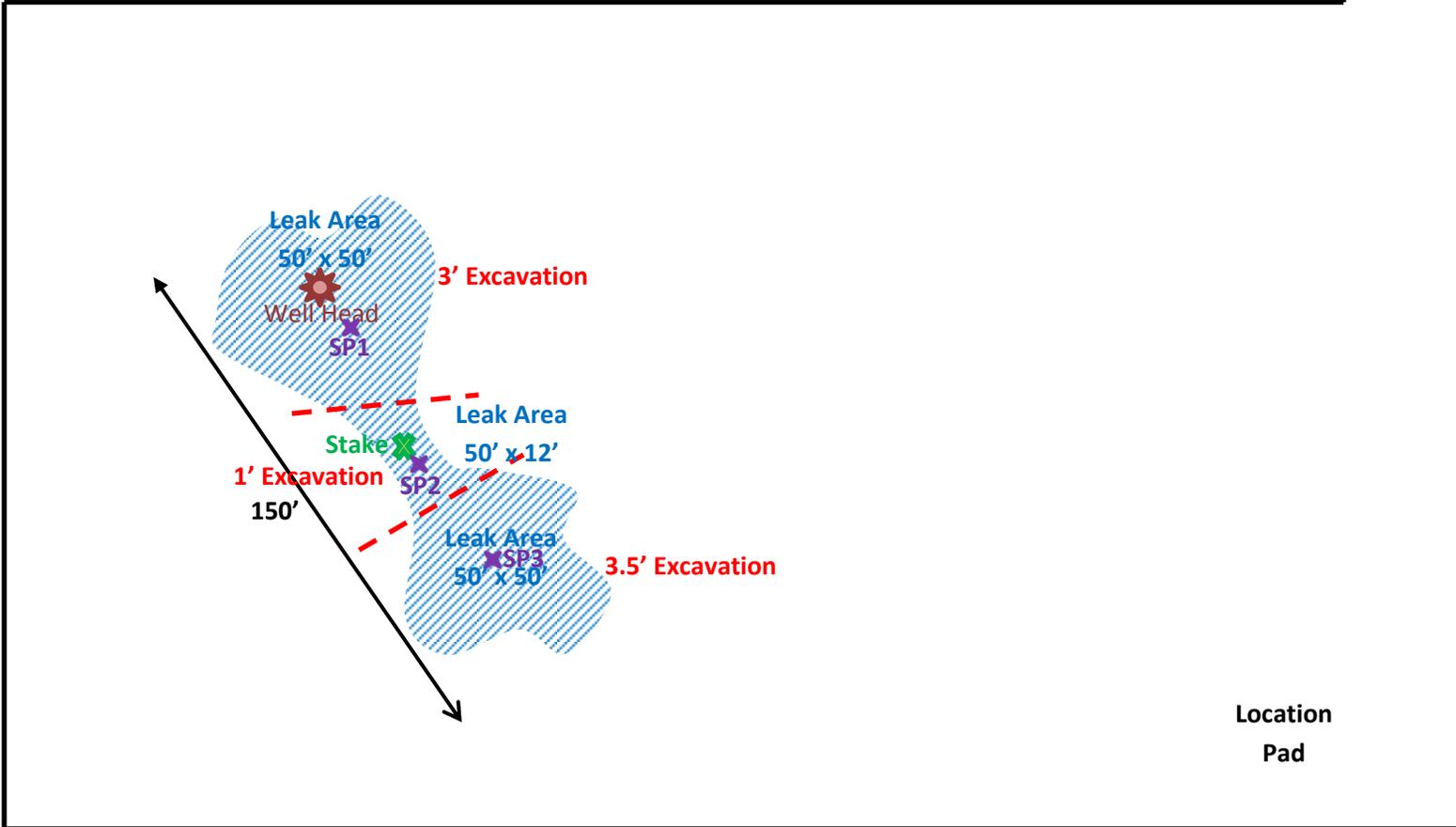
Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Charles F. Bullard Jr.	Approved by Environmental Specialist:		
Title: Drilling HES Ops Advisor	Approval Date:	Expiration Date:	
E-mail Address: Charles.Bullard@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>5/14/15</u>	Phone: (432) 894-3769		

* Attach Additional Sheets If Necessary



Oxy
Federal 12 #2H

Road



U/L O, Section 1, T23S, R30E
1159' FSL, 1543' FEL
Eddy County, NM
N 32.32977° W 103.83082° at the stake
API# 30-015-41344

BBC International, Inc.

Oxy
Federal 12 #2H

Date: 05/15/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



Groundwater Plot

Oxy Federal 12 #2H

County
Eddy

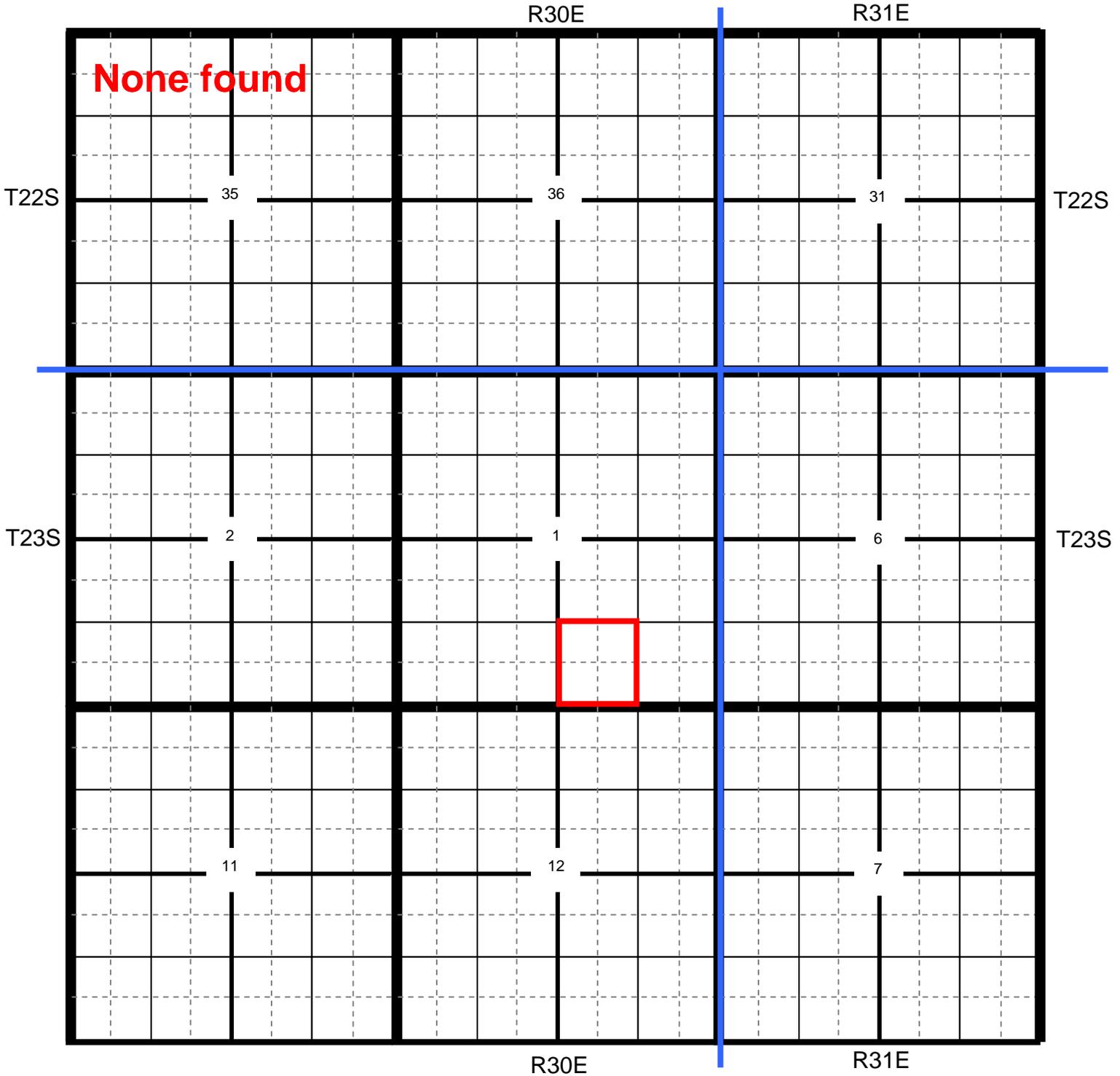
Unit Letter
O

Section
1

Township
23S

Range
30E

Trend Map 250'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy Federal 12 #2H

County Eddy Unit Letter O Section 1 Township 23S Range 30E

Trend Map 250'

1

2

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

3

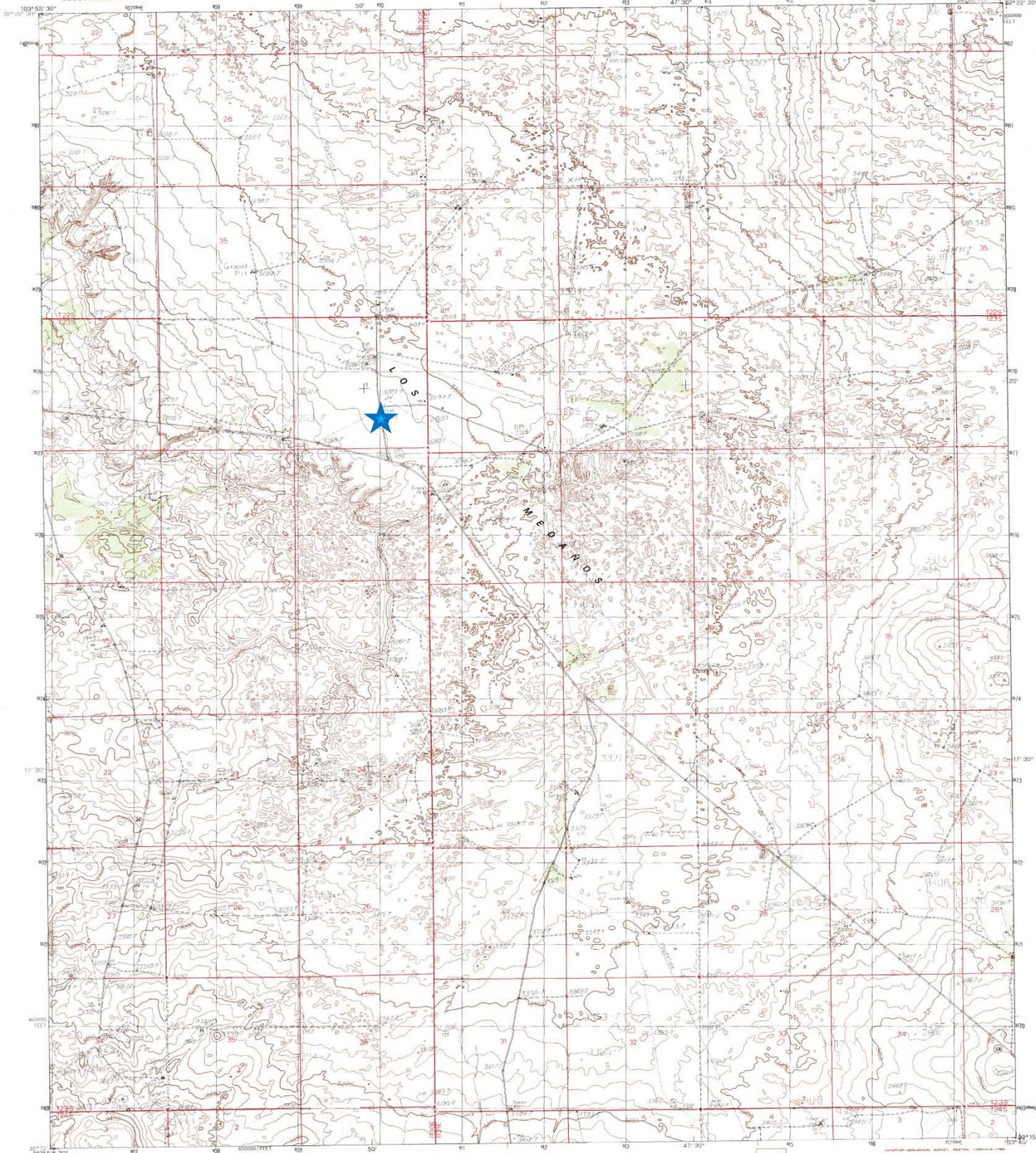
4

Oxy

Federal 12 #2H

LOS MEDAÑOS QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY THE UNITED STATES GEOLOGICAL SURVEY
CONTINUED FROM AERIAL PHOTOGRAPHS TAKEN IN 1977
FIELD CHECKED BY THE UNITED STATES GEOLOGICAL SURVEY
PROJECTED BY THE UNITED STATES GEOLOGICAL SURVEY
GRID BOUNDARIES UNIVERSAL TRANSVERSE MERCATOR
OF THE BANGOR STATE GRID SYSTEM - NEW MEXICO EAST ZONE
UTM GRID DECLINATION 1987 EAST
MAGNETIC NORTH DECLINATION 1987 EAST
VERTICAL DATUM THE NORTH AMERICAN DATUM
HORIZONTAL DATUM THE NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983,
move the projection lines as shown by dashed center ticks
(0 meter south and 45 meters east)
There may be private inholdings within the boundaries of any
Federal and State Reservations shown on this map
All marginal data and lettering generated and positioned by
automated type placement procedures

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.



QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	9

ADJOINING 15' QUADRANGLE NAMES

ROAD LEGEND

Improved Road
Unimproved Road
Trail
Interstate Route U.S. Route State Route

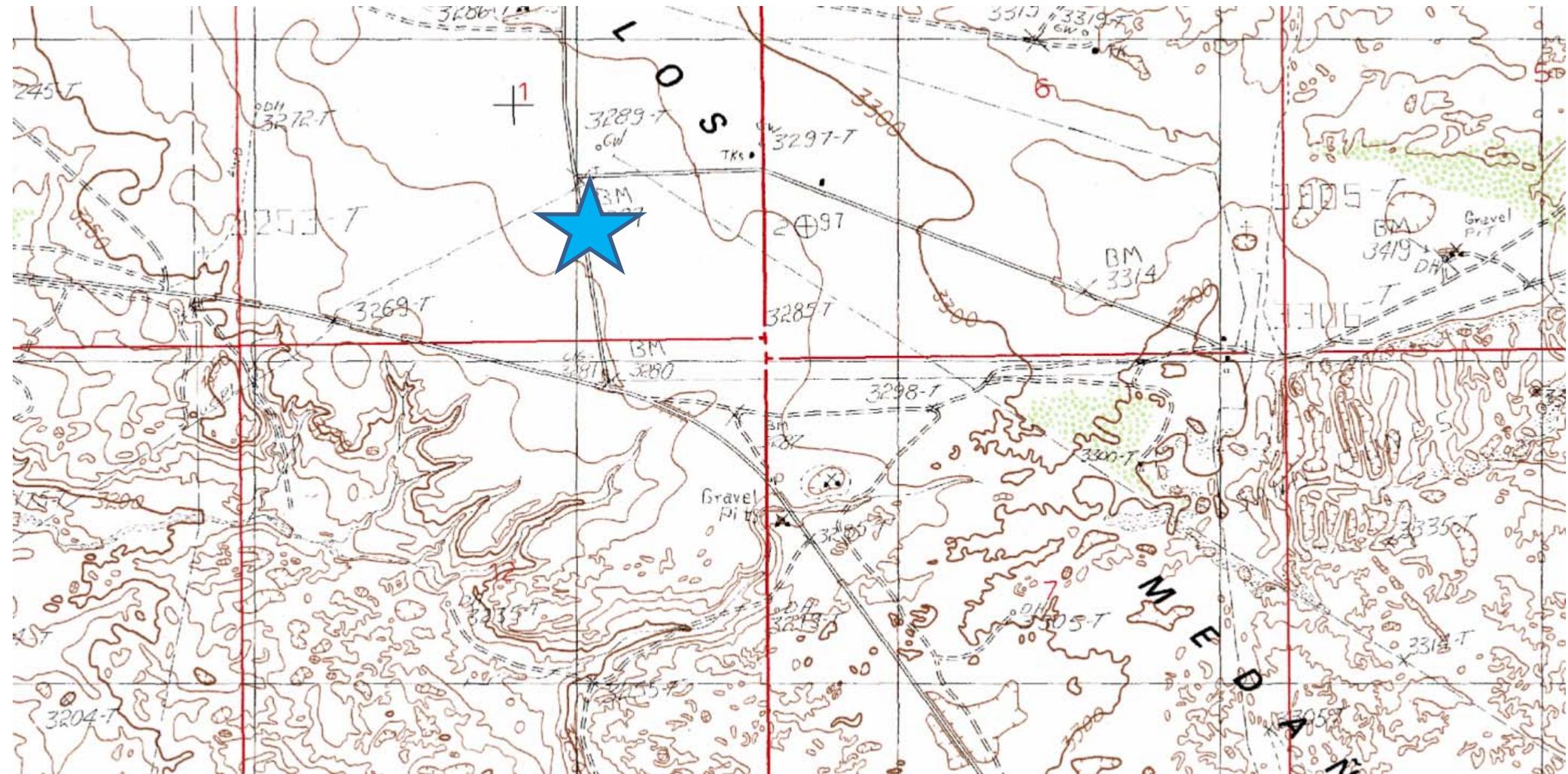
LOS MEDAÑOS, NEW MEXICO
PROVISIONAL EDITION 1985

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

3103-GT-024

Oxy

Federal 12 #2H



Laboratory Analytical Results Summary
Federal 12 #2H

Confirmation		Sample	Bottom SP1
Analyte	Method	Date	4/28/15
			mg/Kg
Chloride	SM4500Cl-B		352

July 29, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 #2H

Enclosed are the results of analyses for samples received by the laboratory on 07/22/14 14:15.

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.

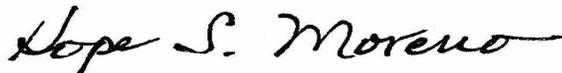
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 1 @ 1 (H402221-01)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	2160	16.0	07/25/2014	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	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 136 % 65.2-140

Surrogate: 1-Chlorooctadecane 155 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Received:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 1 @ 2 (H402221-02)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	3800	16.0	07/25/2014	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	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 146 % 63.6-154

Sample ID: SP 1 @ 3 (H402221-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	07/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 1 @ 4 (H402221-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/25/2014	ND	400	100	400	0.00	

Sample ID: SP 1 @ 5 (H402221-05)

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	07/25/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 2 @ 1 (H402221-06)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	4400	16.0	07/25/2014	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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 2 @ 2 (H402221-07)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	880	16.0	07/25/2014	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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Sample ID: SP 2 @ 3 (H402221-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 3 @ 1 (H402221-09)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1730	16.0	07/25/2014	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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 3 @ 2 (H402221-10)

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	864	16.0	07/25/2014	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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	30.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Sample ID: SP 3 @ 3 (H402221-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	07/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

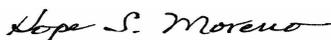
Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: **BBC International, Inc.**

Project Manager: **Cliff Brunson**

Address: **P. O. Box 805**

City: **Hobbs**

Phone #: **575-397-6388**

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

P. O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV

OTHER:

ICE / COOL

ACID/BASE:

OTHER:

MATRIX

SLUDGE

OIL

SOIL

WASTEWATER

GROUNDWATER

CONTAINERS

(G)RAB OR (C)OMP.

DATE

TIME

TPH

BTEX

CL

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Relinquished By:

Received By:

Date:

Time:

Sample Condition

CHECKED BY:

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: **BBC International, Inc.** P.O. #: **BILL TO**

Project Manager: **Cliff Brunson** Company: **BILL TO**

Address: **P.O. Box 805** Attn: **BILL TO**

City: **Hobbs** State: **NM** Zip: **88241**

Phone #: **575-397-6388** Fax #: **575-397-0397** Address: **SAME**

Project #: **Project Owner: SAME** City: **SAME**

Project Name: **Federal 12 #24 Oxy** State: **SAME** Zip: **SAME**

Project Location: **WPP Site Rd** Phone #: **SAME**

Sampler Name: **Wet Samples** Fax #: **SAME**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
ADDRESS 11	SP303		51			X				X		7-21	333	X

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Relinquished By: **[Signature]** Date: **7-22-14** Received By: **Cliff Brunson** Date: **8-15**

Delivered By: (Circle One) **UPS** **Bus** **Other** Sample Condition: **Cool** **Intact** **Yes** **No** **Yes** **No** CHECKED BY: **[Signature]**

Phone Result: Yes No Add'l Phone #: **454**

Fax Result: Yes No Add'l Fax #: **454**

REMARKS:

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



November 03, 2014

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

RE: FEDERAL 12 #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 9:17.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	10/30/2014	Sampling Date:	10/28/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 3 @ 4 (H403342-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/30/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 5 (H403342-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/30/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 7 (H403342-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/30/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 9 (H403342-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/30/2014	ND	400	100	400	3.92	

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:	10/30/2014	Sampling Date:	10/28/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: SP 3 @ 11 (H403342-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/30/2014	ND	400	100	400	3.92	

Sample ID: SP 3 @ 12 (H403342-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/30/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



April 29, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 #2H

Enclosed are the results of analyses for samples received by the laboratory on 04/29/15 8:25.

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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For 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:	04/29/2015	Sampling Date:	04/28/2015
Reported:	04/29/2015	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

Sample ID: CONFIRMATION @ SP 1 BOTTOM (H501113-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/29/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1081

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P. O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Federal #12 2H

Project Location:

Sampler Name: Price Brunson

FOR LAB USE ONLY

P.O. #:

Company:

Attn: State: NIM zip: 88241

Address: Fax #: 575-397-0397

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

H50113

Continuation of Sp1 Bottom

(G)RAB OR (C)OMP.	G
# CONTAINERS	1
GROUNDWATER	
WASTEWATER	
SOIL	✓
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	
ICE / COOL	✓
OTHER :	

DATE TIME
4/28/15 1000

72

4/28/15

Relinquished By: [Signature]

Received By: [Signature]

Date: 4-28-15

Time: 5:00

Relinquished By:

Received By:

Date: 4/29/15

Time: 8:35

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.80

Sample Condition
Cool Intact
Pres No
No No

CHECKED BY: [Signature]

Phone Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:

REMARKS:

Rush

† 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: Monday, January 26, 2015 1:51 PM
To: Cliff Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - Federal 12 #2H - Remediation Plan

Re: Occidental Permian * Fed 12 2H * 30-015-41344 * O-1-23s-30e * Eddy County, NM
NMOCD Tracking Number: 2RP-2341 * Date of release: 3/18/14

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval by BLM.

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 Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, January 12, 2015 2:28 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Federal 12 #2H - Remediation Plan

Mike,

This e-mail is to confirm our conversation on January 8, 2015 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. If you will review the revised diagram on the attachment, it depicts the remediation plan and the areas and depths of the excavations per our discussions. After the soil is excavated, the site will be backfilled with 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

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Kathy Purvis

From: Hughes, Solomon <shughes@blm.gov>
Sent: Tuesday, February 24, 2015 10:39 AM
To: Cliff Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: FW: OXY - Federal 12 #2H - Remediation Plan

Mr. Brunson,

This plan is approved as with the **following amendments:**

According to your sample data, your proposed excavation depths may not be deep enough to get chlorides below 1000 ppm.

1. Excavate SP1 area to beyond 3 feet and take a confirmation sample to show levels below 1000 ppm.
2. Excavate SP2 area to 2 feet.
3. Go with proposed excavation depth of 3.5 feet at SP3 and take a confirmation sample to show levels below 1000 ppm.

BLM approval of this proposal does not relieve the operator of liability, should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, any other aspects of the natural environment, human health, or if the location does not properly reclaim. In such an event that location does not re-vegetate, or future issues with contaminants are encountered, the operator will be asked to address the location until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Bests,

Sol

Sol Hughes

Environmental Protection Division
Bureau of Land Management
620 E. Greene St
Carlsbad, NM

Office: 575.234.5951
Cell: 575.499.3378

On Mon, Feb 23, 2015 at 3:39 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Sol,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. His email follows this message.

If you will review the diagram on the attachment, it depicts the remediation plan and the areas and depths of the excavations. After the soil is excavated, the site will be backfilled with 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.

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Phone: (575) 397-6388

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E-Mail: cbrunson@bbcinternational.com

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From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Monday, January 26, 2015 1:51 PM
To: Cliff Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - Federal 12 #2H - Remediation Plan

Re: Occidental Permian * Fed 12 2H * 30-015-41344 * O-1-23s-30e * Eddy County, NM

NMOCD Tracking Number: 2RP-2341 * Date of release: 3/18/14

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval by BLM.

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 Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, January 12, 2015 2:28 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Federal 12 #2H - Remediation Plan

Mike,

This e-mail is to confirm our conversation on January 8, 2015 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. If you will review the revised diagram on the attachment, it depicts the remediation plan and the areas and depths of the excavations per our discussions. After the soil is excavated, the site will be backfilled with 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

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