

Closure Report

Site Description

Site Name:	Federal 23 #13H
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 26, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.36785° W 103.75581°

Release Data

Date of Release:	08/24/2015
Type of Release:	Oil and produced water
Source of Release:	Stress/fatigue of 4" poly production line
Volume of Release:	10 bbls oil, 10 bbls produced water
Volume Recovered:	60 bbls, including approximately 40 bbls of rain water

Remediation Specifications

Remediation Parameters:	Excavate the spill areas around SP1 and SP2 to a depth of 1 foot. Excavate the area around SP3 to a depth of 1.5 feet. Backfill the site with clean soil.
Remediation Activities:	November 2015

Plan Sent to OCD:	11/22/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/25/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/22/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	11/23/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 09/11/2015
Final C-141	Signed 02/23/2016
Site Diagram	August 2015
Groundwater Plot	175'
TOPO Maps	August 2015
Lab Summary	08/27/2015
Lab Analysis	08/27/2015
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.

02/25/2016

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	CJ Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Federal 23 #13H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41636

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	26	22S	31E					Eddy County, NM

Latitude N 32.36785° Longitude W 103.75581°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 10 bbls produced water	Volume Recovered	60 bbls, including approx.. 40 bbls of rain water
Source of Release	Stress/fatigue of a 4" poly production line	Date and Hour of Occurrence	08/24/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher and Heather Patterson-NMOCD, Shelly Tucker-BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	08/25/2015 @ 2:35 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/fatigue of a 4" poly line caused 10 bbls of oil and 10 bbls of produced water onto the ground. The line was repaired and a vacuum truck recovered 60 bbls of fluids, including approximately 40 bbls of rain water.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 20' x 30' on location. Remediation will be completed according to 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:		OIL CONSERVATION DIVISION	
Printed Name:	CJ Summers	Approved by Environmental Specialist:	
Title:	HES Lead	Approval Date:	Expiration Date:
E-mail Address:	chancey_summers@oxy.com	Conditions of Approval:	
Date:	9-11-15	Phone:	(432) 685-5824
		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	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Federal 23 #13H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41636

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	26	22S	31E					Eddy County, NM

Latitude N 32.36785° Longitude W 103.75581°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 10 bbls produced water	Volume Recovered	60 bbls, including approx.. 40 bbls of rain water
Source of Release	Stress/fatigue of a 4" poly production line	Date and Hour of Occurrence	08/24/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher and Heather Patterson-NMOCD, Shelly Tucker-BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	08/25/2015 @ 2:35 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/fatigue of a 4" poly line caused 10 bbls of oil and 10 bbls of produced water onto the ground. The line was repaired and a vacuum truck recovered 60 bbls of fluids, including approximately 40 bbls of rain water.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 20' x 30' on location. Remediation was completed according to the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and approved by Shelly Tucker of the BLM via email on 11/23/2015.

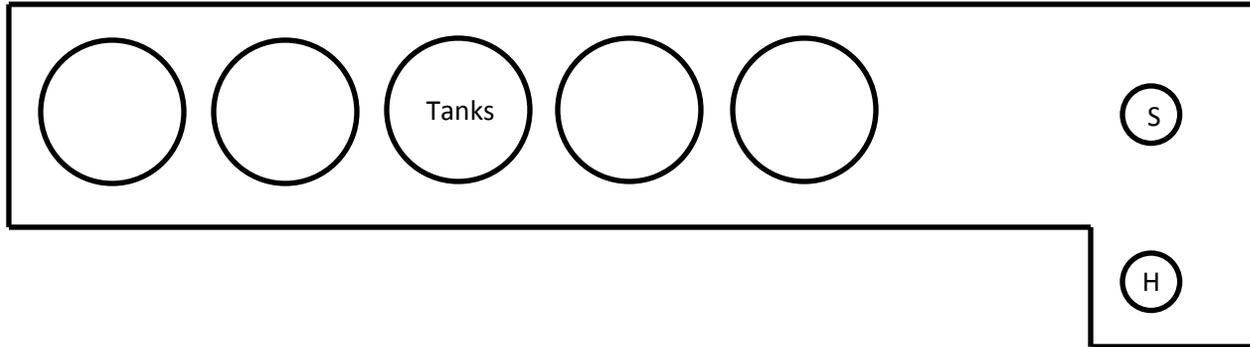
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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:	OIL CONSERVATION DIVISION		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: casey_summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2-23-16 Phone: (575) 513-8289			

* Attach Additional Sheets If Necessary



Oxy
Federal 23 #13H

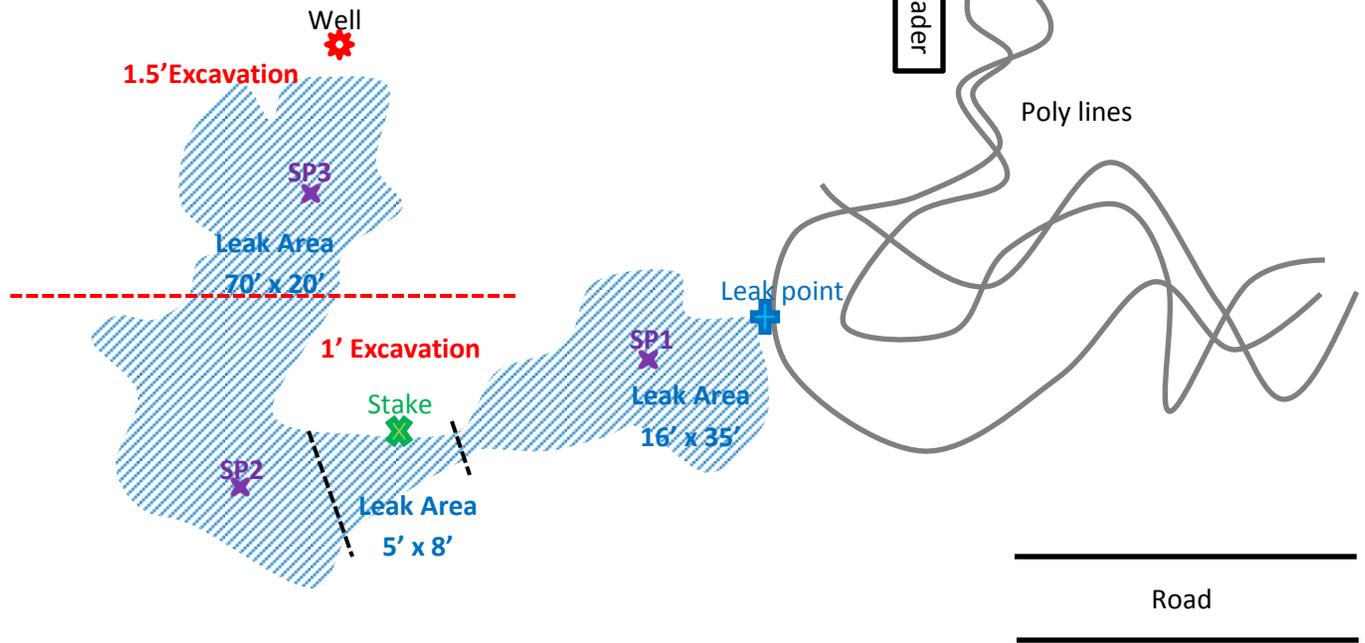


U/L D, Section 26, T22S, R31E

Eddy County, NM

N 32.36785° W 103.75581°

API# 30-015-41636



BBC International, Inc.	
Oxy	
Federal 23 #13H	
Date: 08/27/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015

Groundwater Plot

Oxy Federal 23 #13H

County
Eddy

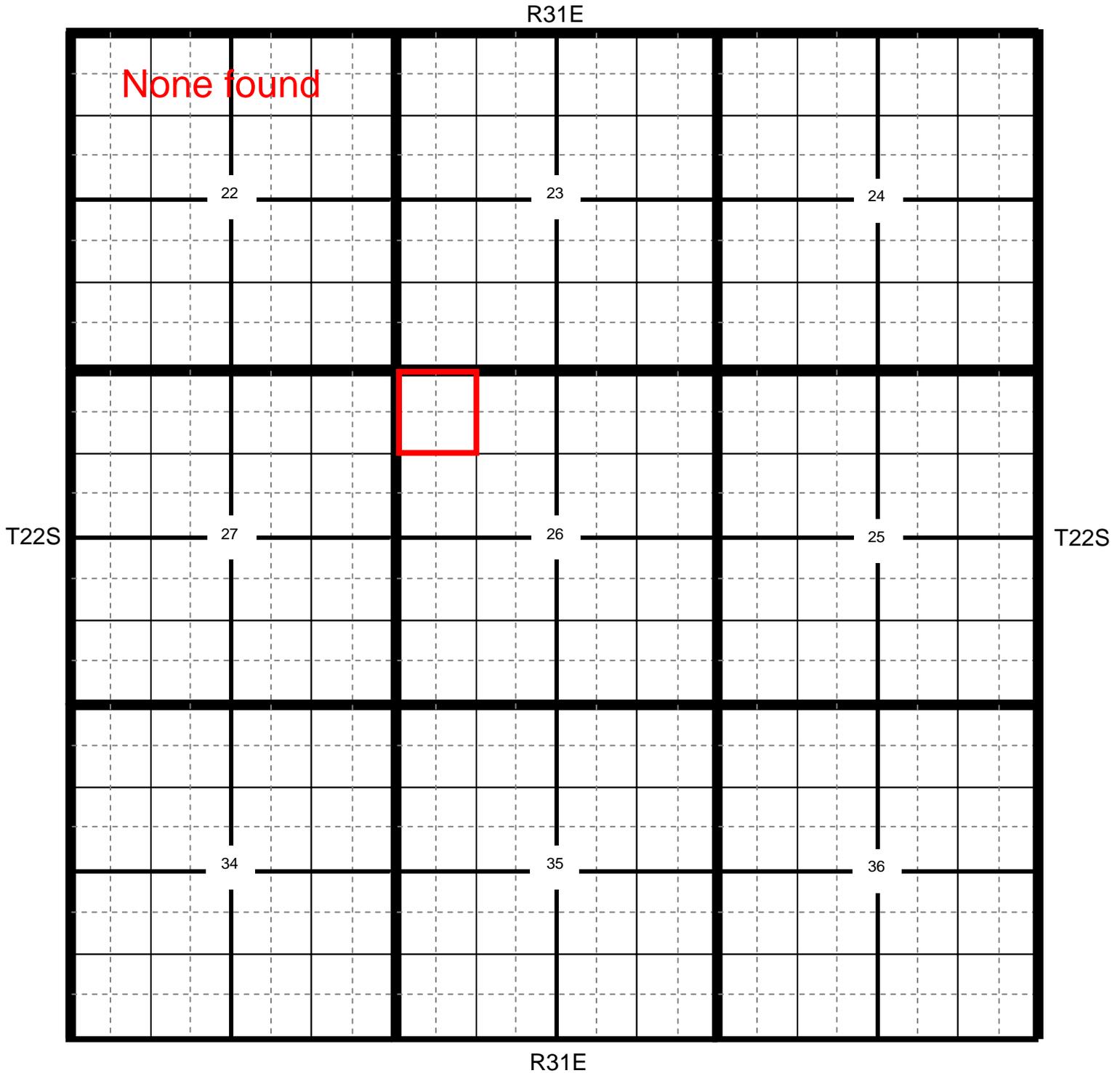
Unit Letter
D

Section
26

Township
22S

Range
31E

Trend Map 175'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Federal 23 #13H

County Eddy Unit Letter D Section 26 Township 22S Range 31E

Trend Map 175'

1

2

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

3

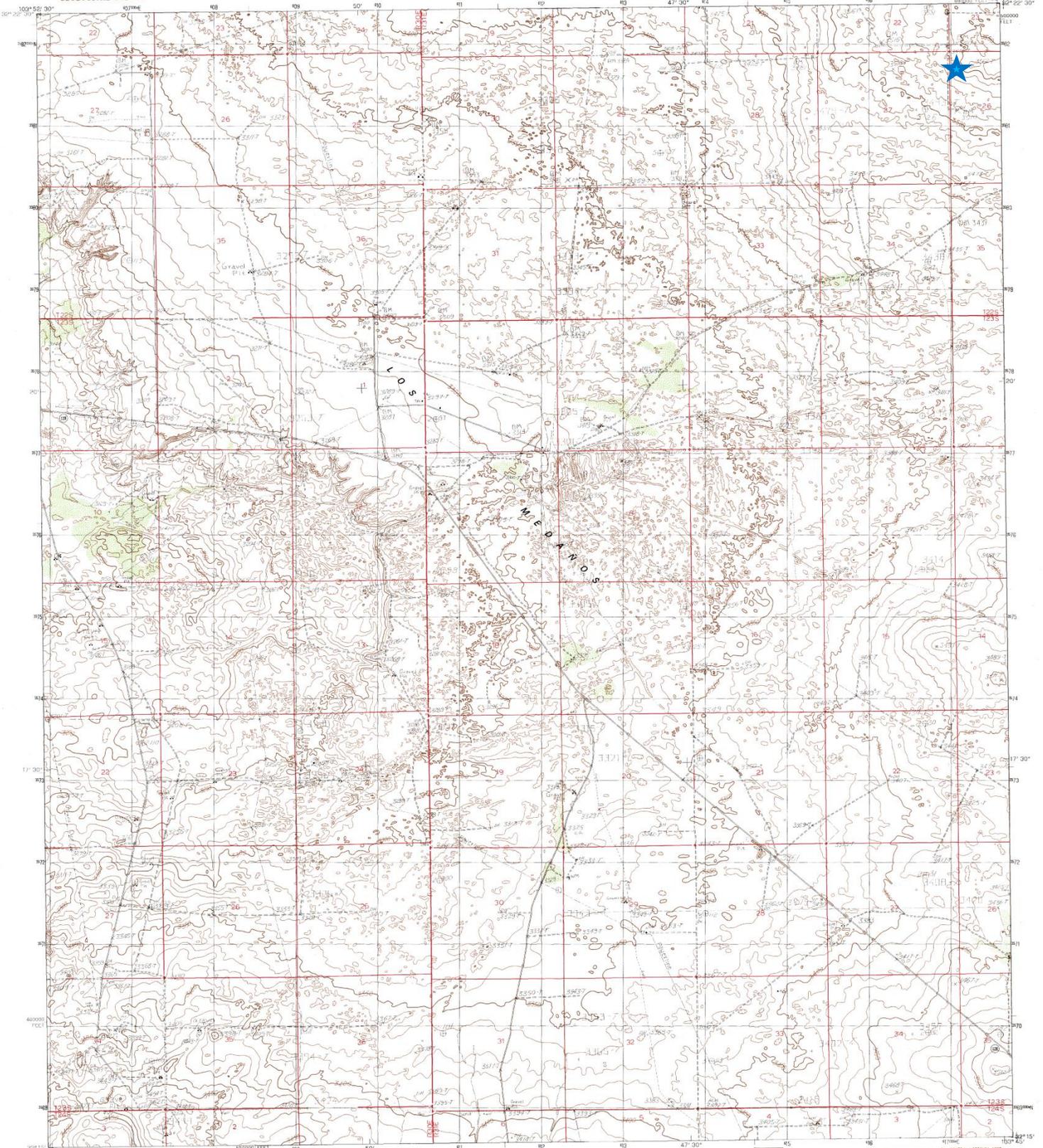
4

Oxy

Federal 23 #13H

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 U.S. NATIONAL
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1967
FIELD CHECKED 1970
PROJECTION UTM
GEOGRAPHIC COORDINATES NAD 83
UTM ZONE 18Q
UTM GRID INTERVAL 500 METERS
UTM GRID DECLINATION 0.000000
UTM GRID FALSE EASTING 500000 METERS
UTM GRID FALSE NORTING 0 METERS
To place on the projected North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
0.9 meters north and 40 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.



NEW MEXICO
QUADRANGLE LOCATION

ROAD LEGEND
Unimproved Road
Unimproved Road
Trail
Interstate Route U.S. Route State Route

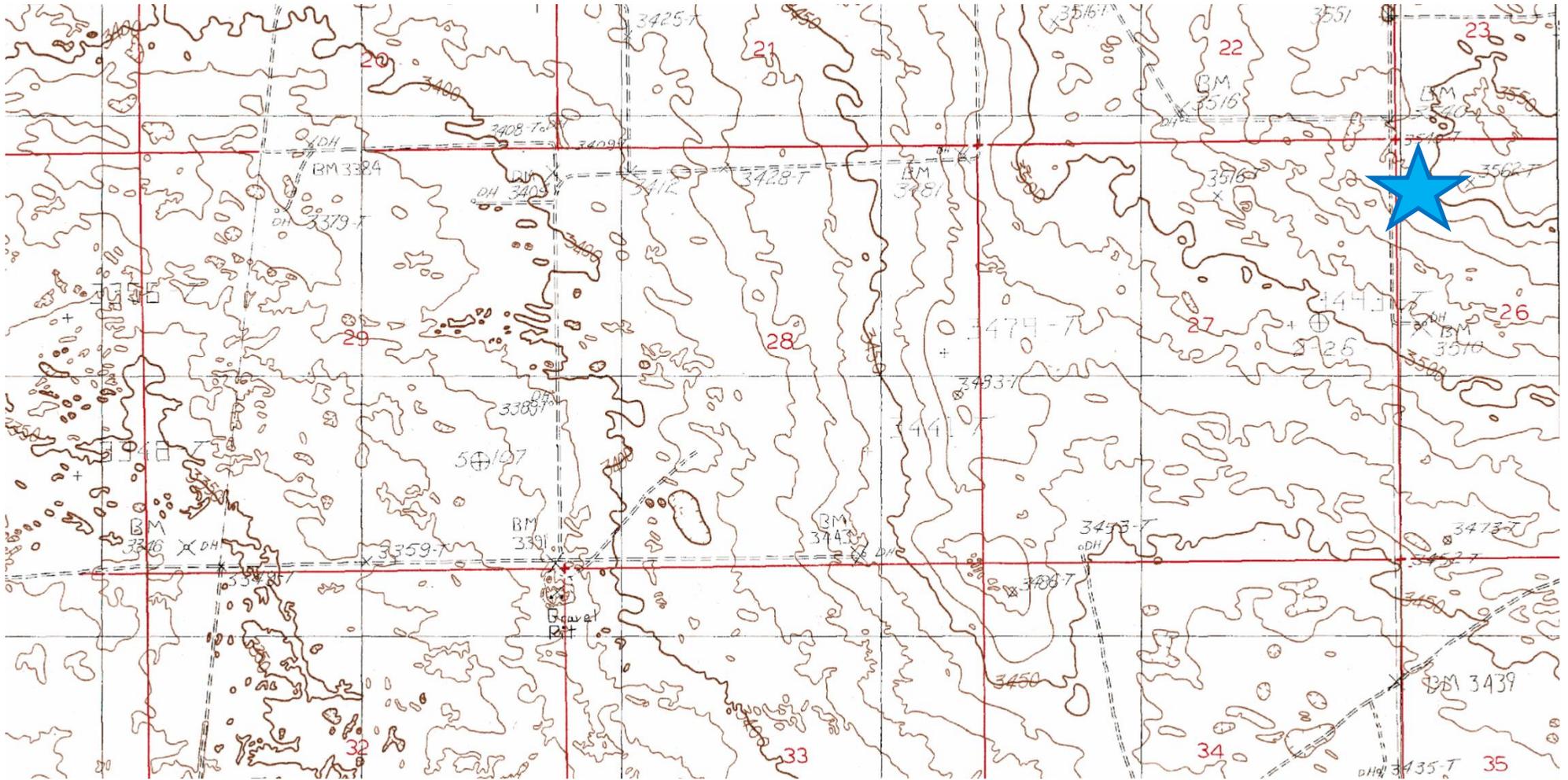
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 20192

LOS MEDAÑOS, NEW MEXICO
PROVISIONAL EDITION 1985

Oxy

Federal 23 #13H



**Laboratory Analytical Results Summary
Federal 23 #13H**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	8/27/15	8/27/15	8/27/15	8/27/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.208	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		2.55	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.79	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		11.8	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		17.3	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		48000	864	48	112
GRO	TPH 8015M		492	<10.0	<10.0	<10.0
DRO	TPH 8015M		16400	328	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/27/15	8/27/15	8/27/15	8/27/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		52800	544	64	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		131	111	<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/27/15	8/27/15	8/27/15	8/27/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.42	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		2.53	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.95	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		9730	6000	128	144
GRO	TPH 8015M		305	<10.0	<10.0	<10.0
DRO	TPH 8015M		20900	1180	29.1	<10.0

September 03, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 23 13H

Enclosed are the results of analyses for samples received by the laboratory on 08/28/15 14:10.

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:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H502297-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.208	0.200	09/01/2015	ND	2.07	103	2.00	5.79	
Toluene*	2.55	0.200	09/01/2015	ND	1.91	95.4	2.00	5.88	
Ethylbenzene*	2.79	0.200	09/01/2015	ND	1.98	98.8	2.00	4.80	
Total Xylenes*	11.8	0.600	09/01/2015	ND	6.08	101	6.00	2.70	
Total BTEX	17.3	1.20	09/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	492	100	08/31/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	16400	100	08/31/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 128 % 47.2-157

Surrogate: 1-Chlorooctadecane 330 % 52.1-176

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:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H502297-02)

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	09/01/2015	ND	2.07	103	2.00	5.79	
Toluene*	<0.050	0.050	09/01/2015	ND	1.91	95.4	2.00	5.88	
Ethylbenzene*	<0.050	0.050	09/01/2015	ND	1.98	98.8	2.00	4.80	
Total Xylenes*	<0.150	0.150	09/01/2015	ND	6.08	101	6.00	2.70	
Total BTEX	<0.300	0.300	09/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 85.6-137

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	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2015	ND	178	89.0	200	0.362	
DRO >C10-C28	328	10.0	08/31/2015	ND	199	99.7	200	0.0682	

Surrogate: 1-Chlorooctane 82.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H502297-03)

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	09/01/2015	ND	2.07	103	2.00	5.79		
Toluene*	<0.050	0.050	09/01/2015	ND	1.91	95.4	2.00	5.88		
Ethylbenzene*	<0.050	0.050	09/01/2015	ND	1.98	98.8	2.00	4.80		
Total Xylenes*	<0.150	0.150	09/01/2015	ND	6.08	101	6.00	2.70		
Total BTEX	<0.300	0.300	09/01/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 85.6-137

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	09/03/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/31/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	<10.0	10.0	08/31/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 73.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H502297-04)

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	09/01/2015	ND	2.07	103	2.00	5.79	
Toluene*	<0.050	0.050	09/01/2015	ND	1.91	95.4	2.00	5.88	
Ethylbenzene*	<0.050	0.050	09/01/2015	ND	1.98	98.8	2.00	4.80	
Total Xylenes*	<0.150	0.150	09/01/2015	ND	6.08	101	6.00	2.70	
Total BTEX	<0.300	0.300	09/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2015	ND	178	89.0	200	0.362	
DRO >C10-C28	<10.0	10.0	08/31/2015	ND	199	99.7	200	0.0682	

Surrogate: 1-Chlorooctane 69.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 79.6 % 52.1-176

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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:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H502297-05)

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	09/02/2015	ND	2.04	102	2.00	0.924	
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473	
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70	
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509	
Total BTEX	<0.300	0.300	09/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52800	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2015	ND	178	89.0	200	0.362	
DRO >C10-C28	131	10.0	08/31/2015	ND	199	99.7	200	0.0682	

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.0 % 52.1-176

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Analytical Results For:

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

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H502297-06)

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	09/02/2015	ND	2.04	102	2.00	0.924	
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473	
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70	
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509	
Total BTEX	<0.300	0.300	09/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2015	ND	178	89.0	200	0.362	
DRO >C10-C28	111	10.0	09/01/2015	ND	199	99.7	200	0.0682	

Surrogate: 1-Chlorooctane 82.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.2 % 52.1-176

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H502297-07)

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	09/02/2015	ND	2.04	102	2.00	0.924		
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473		
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70		
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509		
Total BTEX	<0.300	0.300	09/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/03/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/01/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	<10.0	10.0	09/01/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 78.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.9 % 52.1-176

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H502297-08)

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	09/02/2015	ND	2.04	102	2.00	0.924		
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473		
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70		
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509		
Total BTEX	<0.300	0.300	09/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/03/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/01/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	<10.0	10.0	09/01/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 70.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 77.3 % 52.1-176

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H502297-09)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/02/2015	ND	2.04	102	2.00	0.924	
Toluene*	<0.200	0.200	09/02/2015	ND	1.86	93.1	2.00	0.473	
Ethylbenzene*	0.420	0.200	09/02/2015	ND	1.94	96.8	2.00	1.70	
Total Xylenes*	2.53	0.600	09/02/2015	ND	6.01	100	6.00	0.509	
Total BTEX	2.95	1.20	09/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	305	100	09/01/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	20900	100	09/01/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 145 % 47.2-157

Surrogate: 1-Chlorooctadecane 436 % 52.1-176

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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:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H502297-10)

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	09/02/2015	ND	2.04	102	2.00	0.924		
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473		
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70		
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509		
Total BTEX	<0.300	0.300	09/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	09/03/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/01/2015	ND	178	89.0	200	0.362		
DRO >C10-C28	1180	10.0	09/01/2015	ND	199	99.7	200	0.0682		

Surrogate: 1-Chlorooctane 90.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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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:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H502297-11)

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	09/02/2015	ND	2.04	102	2.00	0.924	
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473	
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70	
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509	
Total BTEX	<0.300	0.300	09/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/03/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2015	ND	178	89.0	200	0.362	
DRO >C10-C28	29.1	10.0	09/01/2015	ND	199	99.7	200	0.0682	

Surrogate: 1-Chlorooctane 79.4 % 47.2-157
Surrogate: 1-Chlorooctadecane 89.3 % 52.1-176

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Analytical Results For:

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

Received:	08/28/2015	Sampling Date:	08/27/2015
Reported:	09/03/2015	Sampling Type:	Soil
Project Name:	FEDERAL 23 13H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H502297-12)

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	09/02/2015	ND	2.04	102	2.00	0.924		
Toluene*	<0.050	0.050	09/02/2015	ND	1.86	93.1	2.00	0.473		
Ethylbenzene*	<0.050	0.050	09/02/2015	ND	1.94	96.8	2.00	1.70		
Total Xylenes*	<0.150	0.150	09/02/2015	ND	6.01	100	6.00	0.509		
Total BTEX	<0.300	0.300	09/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 85.6-137

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	09/03/2015	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/01/2015	ND	187	93.4	200	0.402		
DRO >C10-C28	<10.0	10.0	09/01/2015	ND	201	101	200	1.77		

Surrogate: 1-Chlorooctane 76.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 76.0 % 52.1-176

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



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

102

Company Name: BBC International, Inc. **BILL TO** P.O. #: **ANALYSIS REQUEST**
 Project Manager: Cliff Brunson

Address: P.O. Box 805 **Company:**
 City: Hobbs State: NM zip: 88241 **Attn: C. SUMNER**

Phone #: 575-397-6388 Fax #: 575-397-0397 **Address:**
 Project #: **Project Owner: OXY** City: State: Zip:

Project Name: **FEDERAL 23-13H** State: Zip:
 Project Location: **JEFF DRUELAS** Phone #: Fax #:

Sampler Name: **JEFF DRUELAS** Matrix: **GROUNDWATER** PRESERV: SAMPLING
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H502297	SP1 @ SURFACE		1							8-27-15	1030			
	e 1'		1							8-27-15	1051			
	e 2'		1							8-27-15	1131			
	SP 2 @ SURFACE		1							8-27-15	1702			
	e 1'		1							8-27-15	111			
	e 2'		1							8-27-15	137			
	e 3'		1							8-27-15	200			
	SP 3 @ SURFACE		1							8-27-15	217			
	e 1'		1							8-27-15	230			
	e 2'		1							8-27-15	230			
	e 3'		1							8-27-15	230			

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: **JEFF DRUELAS** Date: **8/27/15** Time: **5:00pm** Received By: **[Signature]**
 Relinquished By: **[Signature]** Date: **8/28/15** Time: **2:00pm** Received By: **[Signature]**

Delivered By: **[Signature]** (Circle One) Sample Condition: **Good** (Initials) **Curcio**
 Sampler - UPS - Bus - Other: **-138c** Yes No Checked BY: **[Signature]**

Phone Result: Yes No Add'l Phone #: **[Blank]**
 Fax Result: Yes No Add'l Fax #: **[Blank]**
 REMARKS: **[Blank]**

† 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: Wednesday, November 25, 2015 10:01 AM
To: Cliff Brunson; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Federal 23 #13H - Remediation Plan

RE: OXY USA * Federal 23 13H * 30-015-41636
2RP-3269 * Date of release: 8/24/2015

Cliff,

Your proposal for remediation of the above referenced release is approved. OCD notes BLM approval has been obtained.

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: Sunday, November 22, 2015 5:50 PM
To: Bratcher, Mike, EMNRD; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Federal 23 #13H - Remediation Plan

Mike and Shelly,

I have attached the remediation materials that we used in our discussions about the remediation plan for the Oxy Federal 23 #13H. Both of you have now verbally agreed to this plan as depicted on the site diagram.

If you would please reply via email with your approval and concurrence of this plan, it would be greatly appreciated. If you have any questions, please let me know.

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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No virus found in this message.
Checked by AVG - www.avg.com
Version: 2015.0.6176 / Virus Database: 4460/11063 - Release Date: 11/25/15

Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Monday, November 23, 2015 10:34 AM
To: Cliff Brunson
Cc: Mike Bratcher; Heather Patterson; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY Federal 23 #13H - Remediation Plan

BLM accepts/approves your work plan as submitted.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the 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.

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On Sun, Nov 22, 2015 at 5:49 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Mike and Shelly,

I have attached the remediation materials that we used in our discussions about the remediation plan for the Oxy Federal 23 #13H. Both of you have now verbally agreed to this plan as depicted on the site diagram.

If you would please reply via email with your approval and concurrence of this plan, it would be greatly appreciated. If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

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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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Version: 2015.0.6176 / Virus Database: 4460/11052 - Release Date: 11/23/15

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2015.0.6176 / Virus Database: 4460/11047 - Release Date: 11/22/15

