

# Closure Report

## Site Description

Site Name:	Pure Gold B Federal #4
Company:	Oxy Permian
Legal Description:	U/L P, Section 20, T23S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.28449° W 103.79334°

## Release Data

Date of Release:	07/14/2016
Type of Release:	Oil and produced water
Source of Release:	Livestock broke off well head sensor nipple
Volume of Release:	15 bbls oil, 2 bbls produced water
Volume Recovered:	10 bbls

## Remediation Specifications

Remediation Parameters:	Surface scrape the entire leak area, then backfill it with clean soil.	
Remediation Activities:	November 2016	
Plan Sent to OCD:	09/23/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/28/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	09/23/2016	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	10/04/2016	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 07/18/2016
Final C-141	Signed 11/16/2016
Site Diagram	July 2016
Groundwater Plot	125'-150'
TOPO Maps	July 2016
Lab Summary	07/20/2016
Lab Analysis	07/20/2016
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.

11/21/2016

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

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	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Pure Gold B Federal #4	Facility Type	Well

Surface Owner	BLM	Mineral Owner		API No.	30-015-27238
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	20	23S	31E					Eddy

Latitude N 32.28449° Longitude W 103.79334°

**NATURE OF RELEASE**

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 2 bbls produced water	Volume Recovered	10 bbls
Source of Release	Livestock broke off well head sensor nipple	Date and Hour of Occurrence	07/14/2016	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, Heather Patterson- NMOCD; Shelly Tucker- BLM		
By Whom?	Jennifer Gilkey @ BBC International Inc.	Date and Hour	07/14/2016 @ 4:28 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.\*  
Livestock broke off the well head sensor nipple causing a release of 15 bbls of oil and 2 bbls of produced water. A vacuum truck recovered 10 bbls of fluids and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 150' x 50' both on and off location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: 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: 7-18-16 Phone: (575) 513-8289			

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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Form C-141  
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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	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294, Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Pure Gold B Federal #4	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-015-27238

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	20	23S	31E					Eddy

Latitude N 32.28449° Longitude W 103.79334°

**NATURE OF RELEASE**

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Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; Shelly Tucker- BLM		
By Whom?	Jennifer Gilkey @ BBC International Inc.	Date and Hour	07/14/2016 @ 4:28 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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Describe Cause of Problem and Remedial Action Taken.\*

Livestock broke off the well head sensor nipple causing a release of 15 bbls of oil and 2 bbls of produced water. A vacuum truck recovered 10 bbls of fluids and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 150' x 50' both on and off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 09/28/2016 and approved by Shelly Tucker of the BLM via email on 10/04/2016.

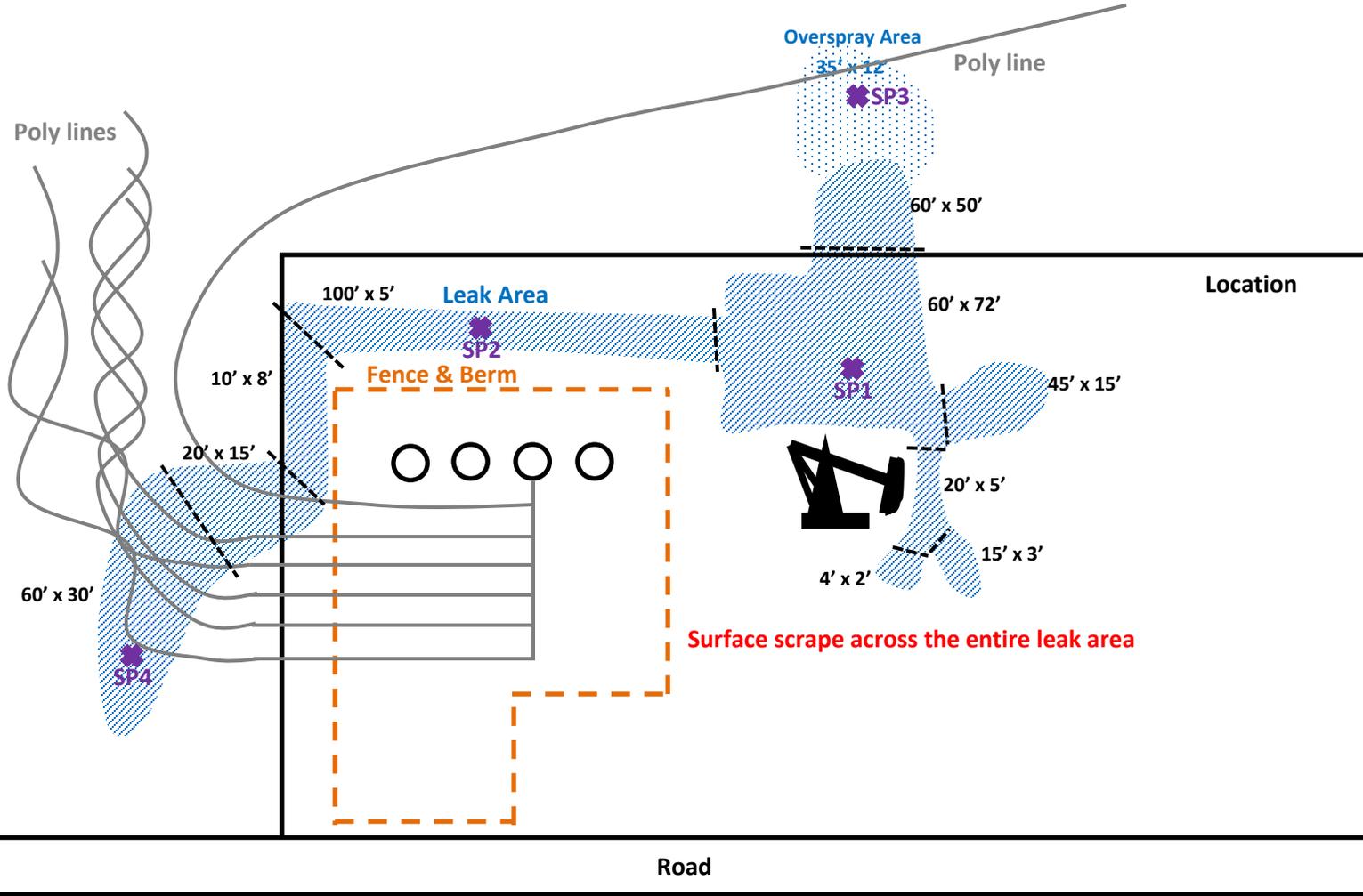
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: <a href="mailto:Casey_Summers@oxy.com">Casey_Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>11-16-16</u> Phone: (575) 513-8289			

\* Attach Additional Sheets If Necessary



Oxy  
Pure Gold B Federal #4 (7/14/16)



U/L P, Section 20, T23S, R31E

Eddy County, NM

N 32.28449° W 103.79334°

API# 30-015-27238

**BBC International, Inc.**

**Oxy**

**Pure Gold B Federal #4**

Date: 07/18/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

## OXY Pure Gold B Federal #4

County  
Eddy

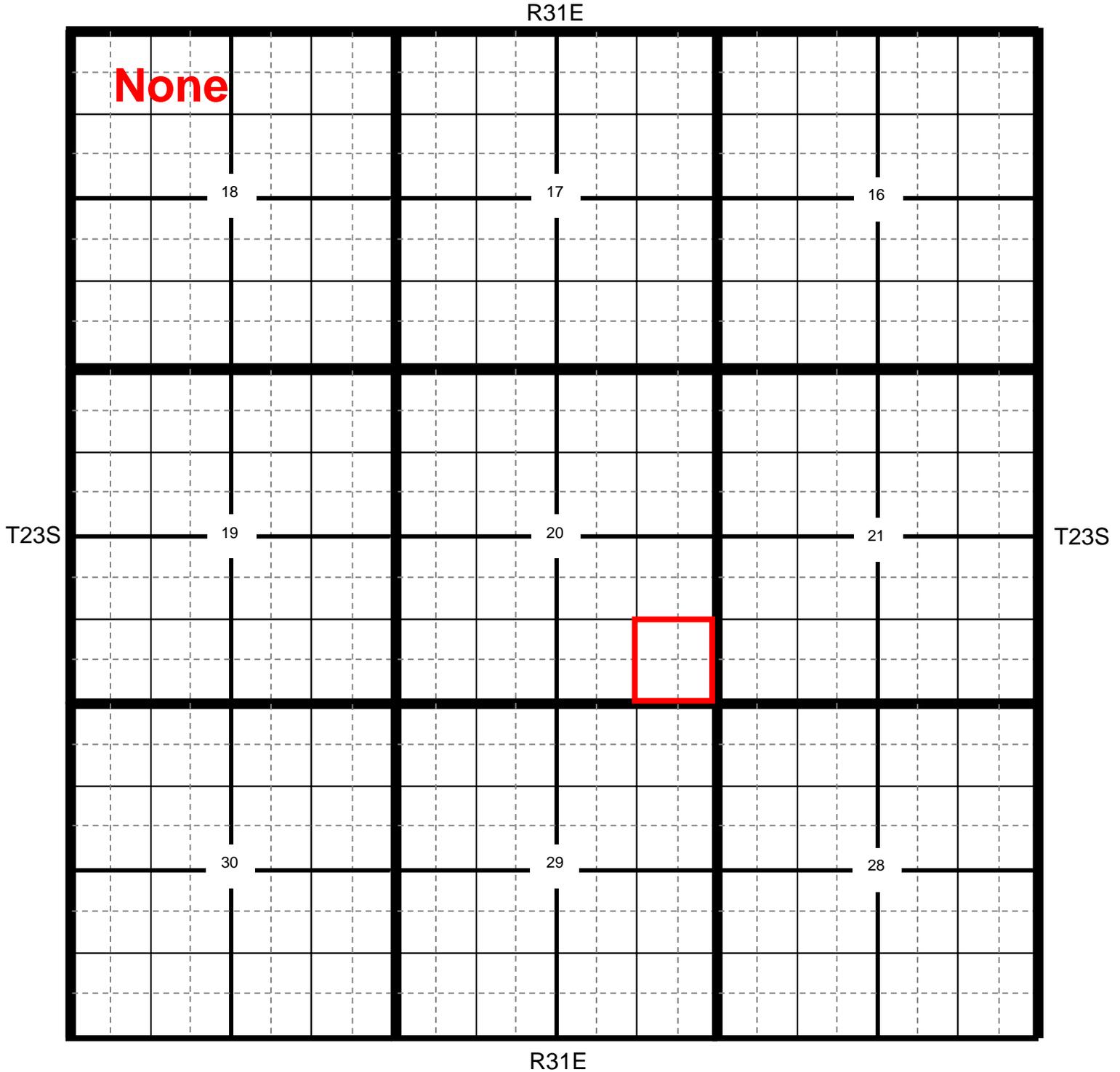
Unit Letter  
P

Section  
20

Township  
23S

Range  
31E

Trend Map 125'-150'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Pure Gold B Federal #4

County Eddy      Unit Letter P      Section 20      Township 23S      Range 31E

Trend Map 125'-150'

1

2

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

3

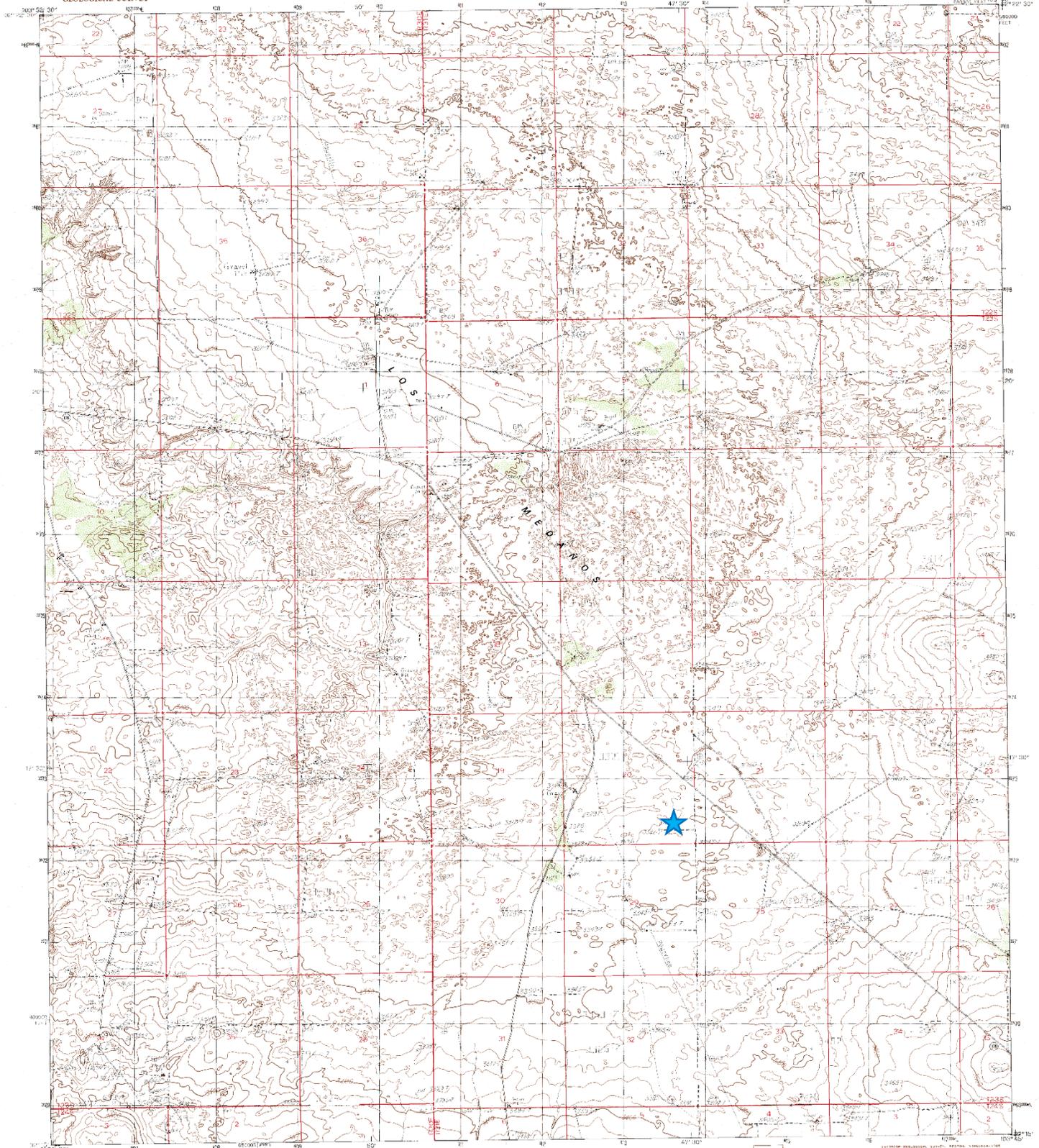
4

# Oxy

## Pure Gold B Federal #4

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROLLED BY AERIAL PHOTOGRAPHY TAKEN IN 1971  
BASED ON THE TRANSVERSE MERCATOR PROJECTION  
GEOGRAPHIC COORDINATES: UTM ZONE 18N  
EASTING: 600,000 METERS  
NORTHING: 4,000,000 METERS  
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929  
HORIZONTAL DATUM: 1983 NORTH AMERICAN DATUM  
To place on the predicted North American Datum of 1983,  
move the projection lines as shown by dashed corner ticks  
(9 inches south and 45 inches east).  
There may be private inholdings within the boundaries of any  
Federal and State land interests shown on this map.  
All marginal data and lettering generated and positioned by  
automated title placement procedures.

**PROVISIONAL MAP**  
Produced from original  
manuscript drawings. Informa-  
tion shown as of date of  
field check. 3

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80215  
OR RESTON, VIRGINIA 20192

NEW MEXICO

QUADRANGLE LOCATION

1	2	3	1. Topographic Map
4	5	6	2. Aerial Photograph
7	8	9	3. Bathymetric Chart
10	11	12	4. Profile Sheet

ADJOINING 7.5 QUADRANGLE NAMES

**ROAD LEGEND**

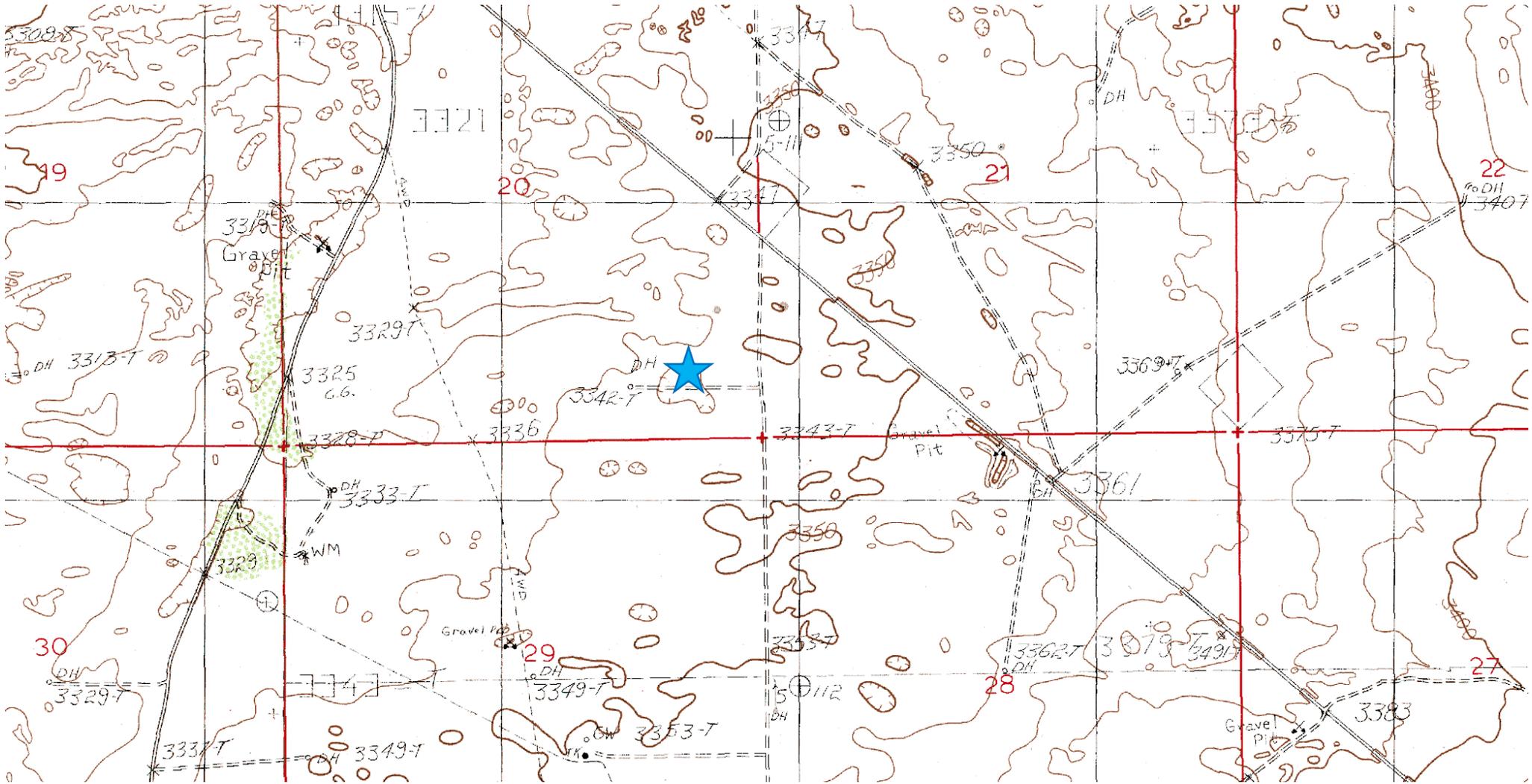
Improved Road  
Unimproved Road  
Trail

Interstate Route U.S. Route State Route

LOS MEDAÑOS, NEW MEXICO  
PROVISIONAL EDITION 1985  
121037-7E024

# Oxy

## Pure Gold B Federal #4



**Laboratory Analytical Results Summary  
Pure Gold B Federal #4**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	7/20/16	7/20/16	7/20/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>64</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/6/15	7/20/16	7/20/16
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>96</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'
Analyte	Method	Date	7/20/16
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<b>16</b>
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<10.0

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	7/20/16	7/20/16
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0



July 27, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PURE GOLD B FED #4

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H601648-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

*Surrogate: 1-Chlorooctane 89.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 95.7 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 2' (H601648-02)**

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	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H601648-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 77.5 % 35-147

Surrogate: 1-Chlorooctadecane 87.4 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1' (H601648-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 77.7 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 2' (H601648-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 78.2 % 35-147

Surrogate: 1-Chlorooctadecane 89.1 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3' (H601648-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 81.6 % 35-147

Surrogate: 1-Chlorooctadecane 93.0 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 1' (H601648-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

*Surrogate: 1-Chlorooctane 86.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 96.9 % 28-171*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 1' (H601648-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

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	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

Surrogate: 1-Chlorooctane 84.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.5 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/22/2016	Sampling Date:	07/20/2016
Reported:	07/27/2016	Sampling Type:	Soil
Project Name:	PURE GOLD B FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 2' (H601648-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2016	ND	2.14	107	2.00	0.142	
Toluene*	<0.050	0.050	07/26/2016	ND	2.18	109	2.00	0.0509	
Ethylbenzene*	<0.050	0.050	07/26/2016	ND	2.09	105	2.00	0.209	
Total Xylenes*	<0.150	0.150	07/26/2016	ND	6.31	105	6.00	0.107	
Total BTEX	<0.300	0.300	07/26/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/25/2016	ND	416	104	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	07/25/2016	ND	185	92.3	200	4.36	
DRO >C10-C28	<10.0	10.0	07/25/2016	ND	190	94.8	200	7.04	

*Surrogate: 1-Chlorooctane 78.6 % 35-147*
*Surrogate: 1-Chlorooctadecane 87.8 % 28-171*

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\*=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



**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. P.O. #: \_\_\_\_\_  
 Project Manager: Cliff Brunson Company: \_\_\_\_\_  
 Address: P.O. Box 805 Attn: \_\_\_\_\_  
 City: Hobbs State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397 Address: \_\_\_\_\_  
 Project #: \_\_\_\_\_ City: \_\_\_\_\_  
 Project Name: *pine Cold B Fed #17* State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Phone #: \_\_\_\_\_  
 Sampler Name: *Cliff Brunson* Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TFA	BTEX	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HBO1048</i>	<i>1</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>9:19</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>2</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>9:38</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>3</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>10:00</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>4</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>10:30</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>5</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>10:42</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>6</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>10:57</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>7</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>11:38</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>8</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>12:00</i>	<i>---</i>	<i>---</i>	<i>---</i>					
	<i>9</i>	<i>G</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>7/20/16</i>	<i>12:25</i>	<i>---</i>	<i>---</i>	<i>---</i>					

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Relinquished By: \_\_\_\_\_ Date: *7/21/16* Received By: *Cliff Brunson*  
 Time: *2:29 PM*  
 Date: *7/16/15* Time: \_\_\_\_\_  
 Delivered By: (Circle One) *UPS* Sample Condition:  Intact  Cool  Yes  No  
 Sampler - UPS - Bus - Other: *4:50* CHECKED BY: *[Signature]*  
 REMARKS: *#75*

**From:** [Bratcher, Mike, EMNRD](#)  
**To:** [Cliff Brunson](#)  
**Cc:** [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Jennifer\\_Duarte@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Tucker, Shelly](#)  
**Subject:** RE: OXY - Pure Gold B Federal #4 - Remediation Plan  
**Date:** Wednesday, September 28, 2016 3:38:11 PM

---

RE: OXY USA \* Pure Gold B Fed 4 \* **2RP-3795** \* DOR: 7/14/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites require like approval from 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](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Friday, September 23, 2016 11:13 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Patterson, Heather, EMNRD; Casey Summers; Jennifer\_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - Pure Gold B Federal #4 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Pure Gold B Federal #4 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

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



\*\*\*\*\*

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\*\*\*\*\*

**From:** [Tucker, Shelly](#)  
**To:** [Bratcher, Mike, EMNRD](#)  
**Cc:** [Cliff Brunson](#); [Patterson, Heather, EMNRD](#); [Casey Summers](#); [Jennifer Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** Re: OXY - Pure Gold B Federal #4 - Remediation Plan  
**Date:** Tuesday, October 4, 2016 10:11:33 AM

---

Cliff,

BLM approves your remediation proposal. Please contact the BLM once activities have begun.

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](mailto: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 Wed, Sep 28, 2016 at 3:38 PM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

|

RE: OXY USA \* Pure Gold B Fed 4 \* **2RP-3795** \* DOR: 7/14/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites require like approval from 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**

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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]

**Sent:** Friday, September 23, 2016 11:13 AM

**To:** Bratcher, Mike, EMNRD

**Cc:** Patterson, Heather, EMNRD; Casey Summers; [Jennifer\\_Duarte@oxy.com](mailto:Jennifer_Duarte@oxy.com); Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** OXY - Pure Gold B Federal #4 - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Pure Gold B Federal #4 release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

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