

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 32.28453° W 103.79344°

Release Data

Date of Release:	11/21/2016
Type of Release:	Oil and produced water
Source of Release:	Compromised flow line at the well head
Volume of Release:	5 bbls oil, 35 bbls produced water
Volume Recovered:	20 bbls

Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 2 feet. Excavate the area around SP2 to a depth of 1 foot. Surface-scrape the area around SP3. Backdrag the overspray area. Backfill the site with clean soil.	
Remediation Activities:	03/17/2017 to 03/24/2017	
Plan Sent to OCD:	02/07/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	02/15/2017	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	02/07/2017	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	02/14/2017	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 11/30/2016
Final C-141	Signed 04/03/2017
Site Diagram	November 2016
Groundwater Plot	125'-150'
TOPO Maps	November 2016
Lab Summary	11/30/2016
Lab Analysis	11/30/2016
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.

04/05/2016

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	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Pure Gold B Federal #004	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 32.28453° Longitude W 103.79344°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	5 bbls oil, 35 bbls produced water	Volume Recovered	20 bbls
Source of Release	Compromised flow line at the well head	Date and Hour of Occurrence	11/21/2016	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?	Kathy Purvis @ BBC International Inc.	Date and Hour	11/21/2016 @ 4:25 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.*

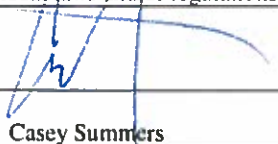
Describe Cause of Problem and Remedial Action Taken.*

A compromised flow line at the well head caused a leak of 5 bbls of oil and 35 bbls of produced water. A vacuum truck recovered 20 bbls of fluids and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 50' on location around the well head. 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: 		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: 11-30-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary

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Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Pure Gold B Federal #004	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-015-27238

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P	20	23S	31E					Eddy

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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?	Kathy Purvis @ BBC International Inc.	Date and Hour	11/21/2016 @ 4:25 pm		
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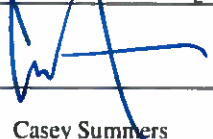
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The affected area is approximately 100' x 50' on location around the well head. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 02/15/2017 and approved by Shelly Tucker of the BLM via email on 02/14/2017.

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Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: <u>Casey_Summers@oxy.com</u>		Conditions of Approval:	
Date: <u>4-3-17</u>	Phone: (575) 513-8289	Attached <input type="checkbox"/>	

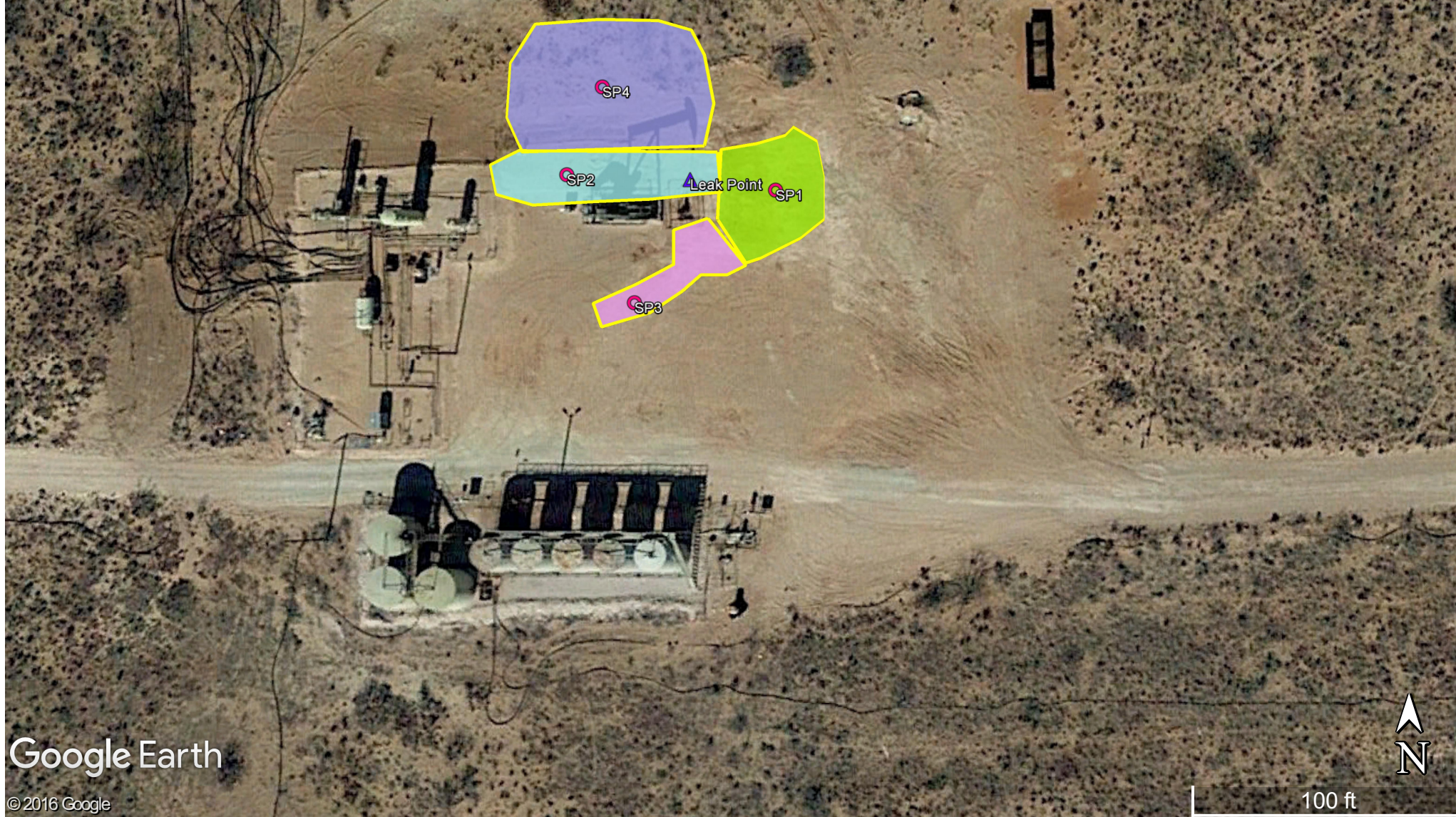
* Attach Additional Sheets If Necessary

Oxy, Pure Gold B Federal #4

Leak Date: 11/21/16
Eddy County, NM
API# 30-015-27238
RP# 2RP-4021

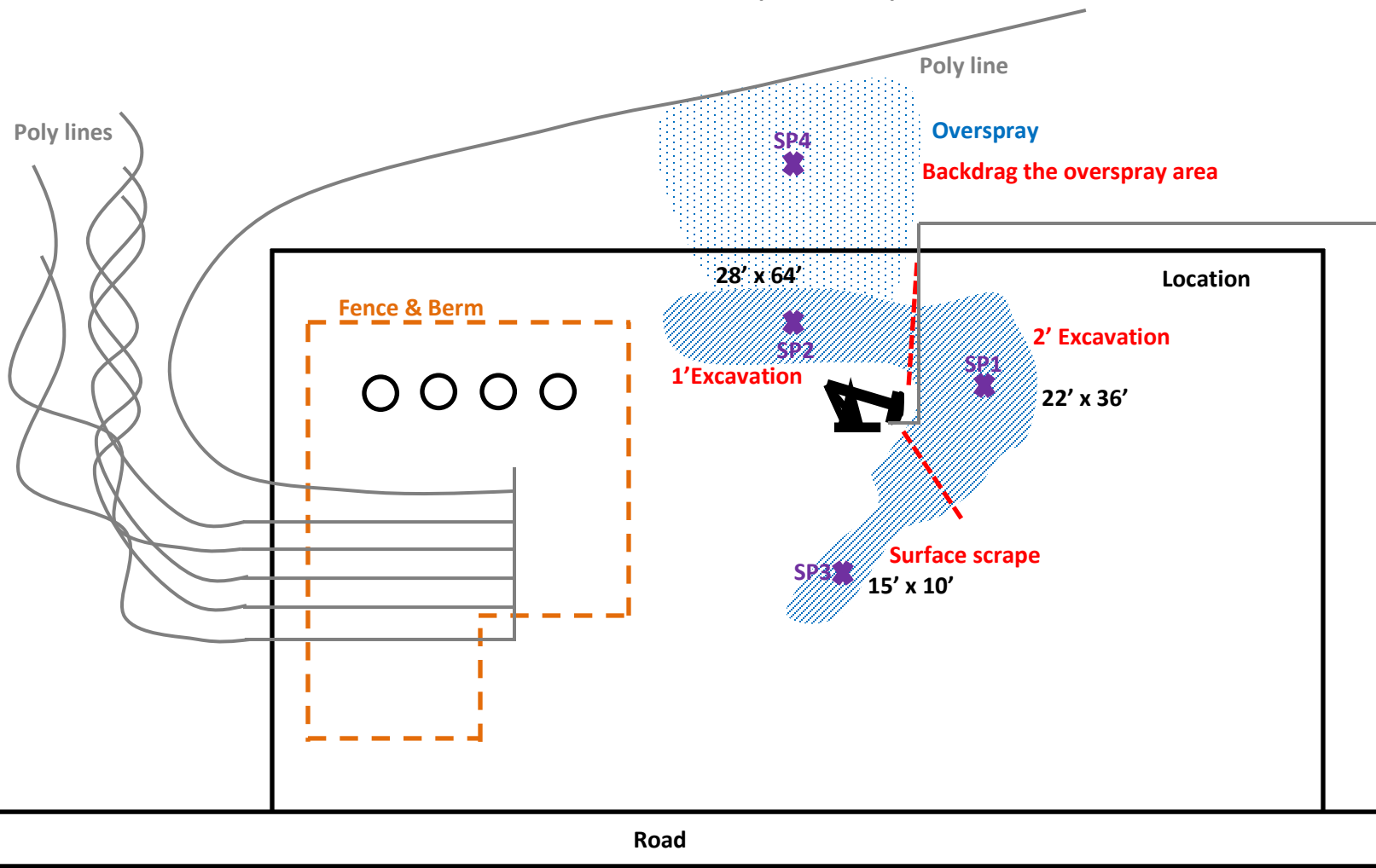
Legend

- ▲ Leak Point
- ▮ Overspray Area, Backdrag only
- Sample points, Hand Auger
- ▮ Spill Area, 1 ft Excavation
- ▮ Spill Area, 2 ft Excavation
- ▮ Spill Area, Surface scrape





Oxy
Pure Gold B Federal #4 (11/21/16)



U/L P, Section 20, T23S, R31E

Eddy County, NM

N 32.28449° W 103.79334°

API# 30-015-27238

BBC International, Inc.

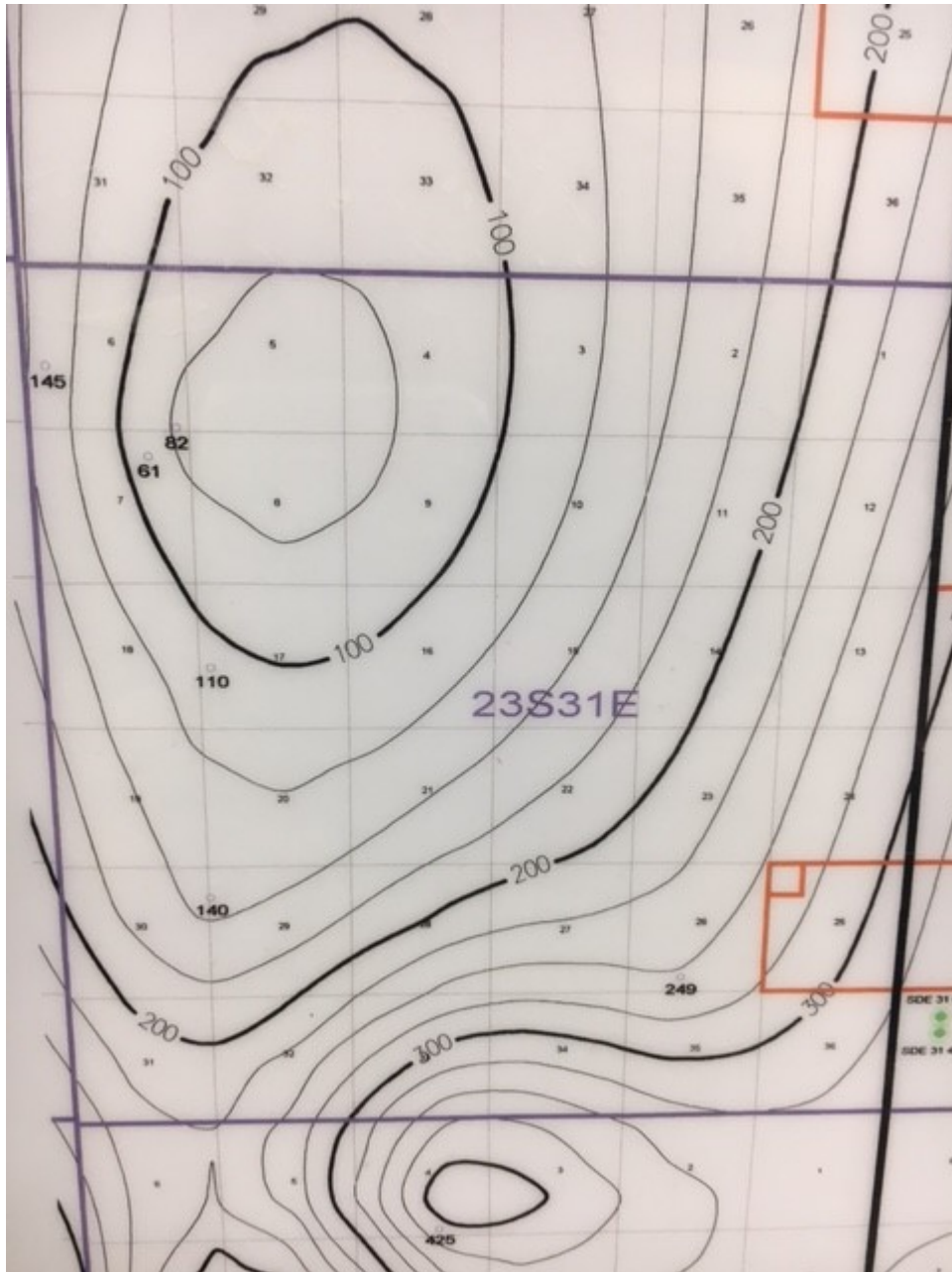
Oxy
Pure Gold B Federal #4

Date: 11/29/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02954 EXPL			ED	3	1	4	20	23S	31E	613114	3572906*	<input type="text"/>	587	905	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 613621

Northing (Y): 3572609

Radius: 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/5/17 9:19 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64:Q16: SEQ4: SESec: 20Tws: 23SRng: 31E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

Longitude (X):Degrees: °Minutes: 'Seconds: "

Latitude (Y):Degrees: °Minutes: 'Seconds: "

UTM - NAD27

Easting (X):mtrs Northing (Y):mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):613621.0mtrsNorthing (Y):3572609.0mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



Groundwater Plot

OXY Pure Gold B Federal #004

County
Eddy

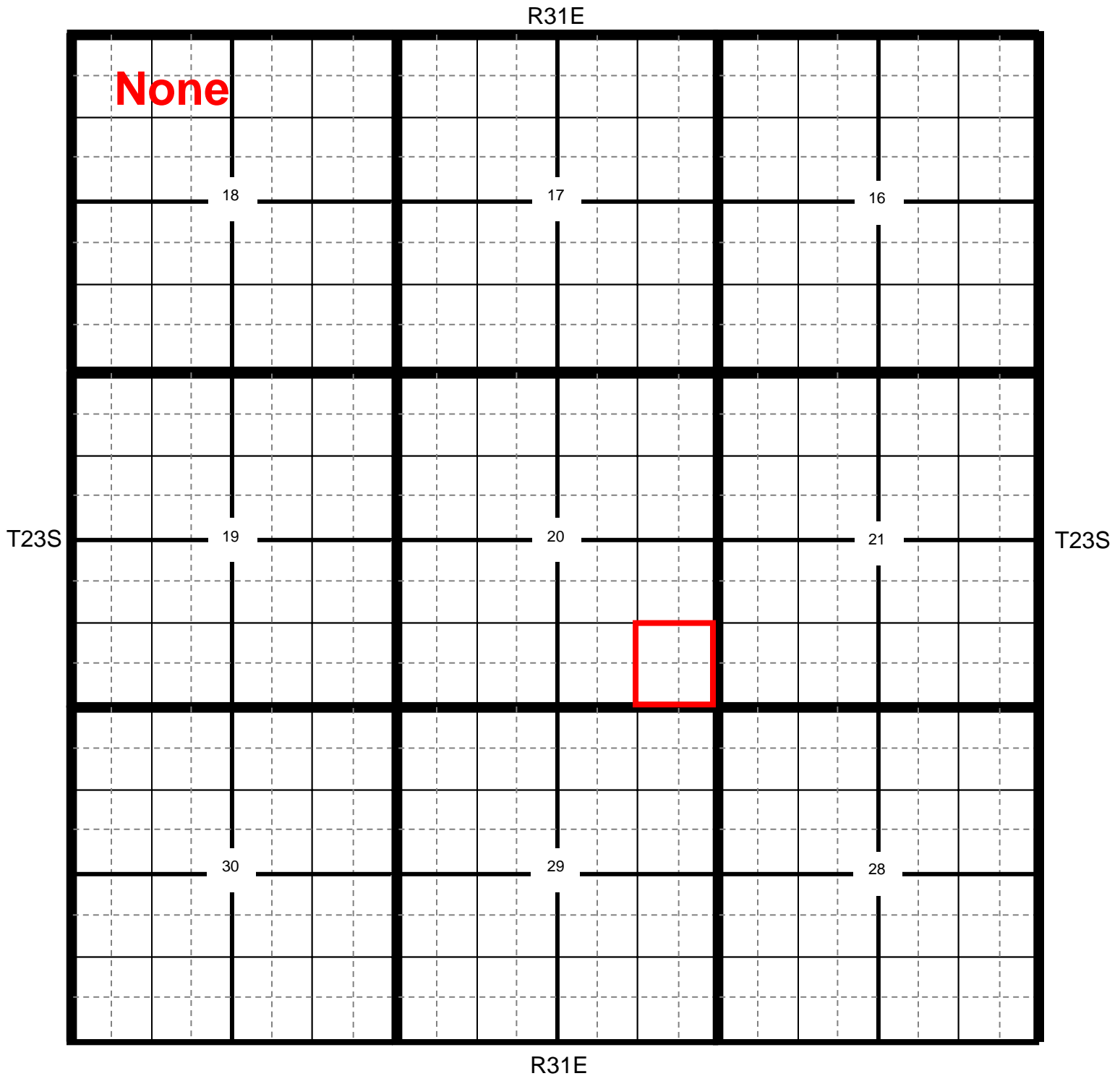
Unit Letter
P

Section
20

Township
23S

Range
31E

Trend Map 125'-150'



★ Location

● OCD

● USGS

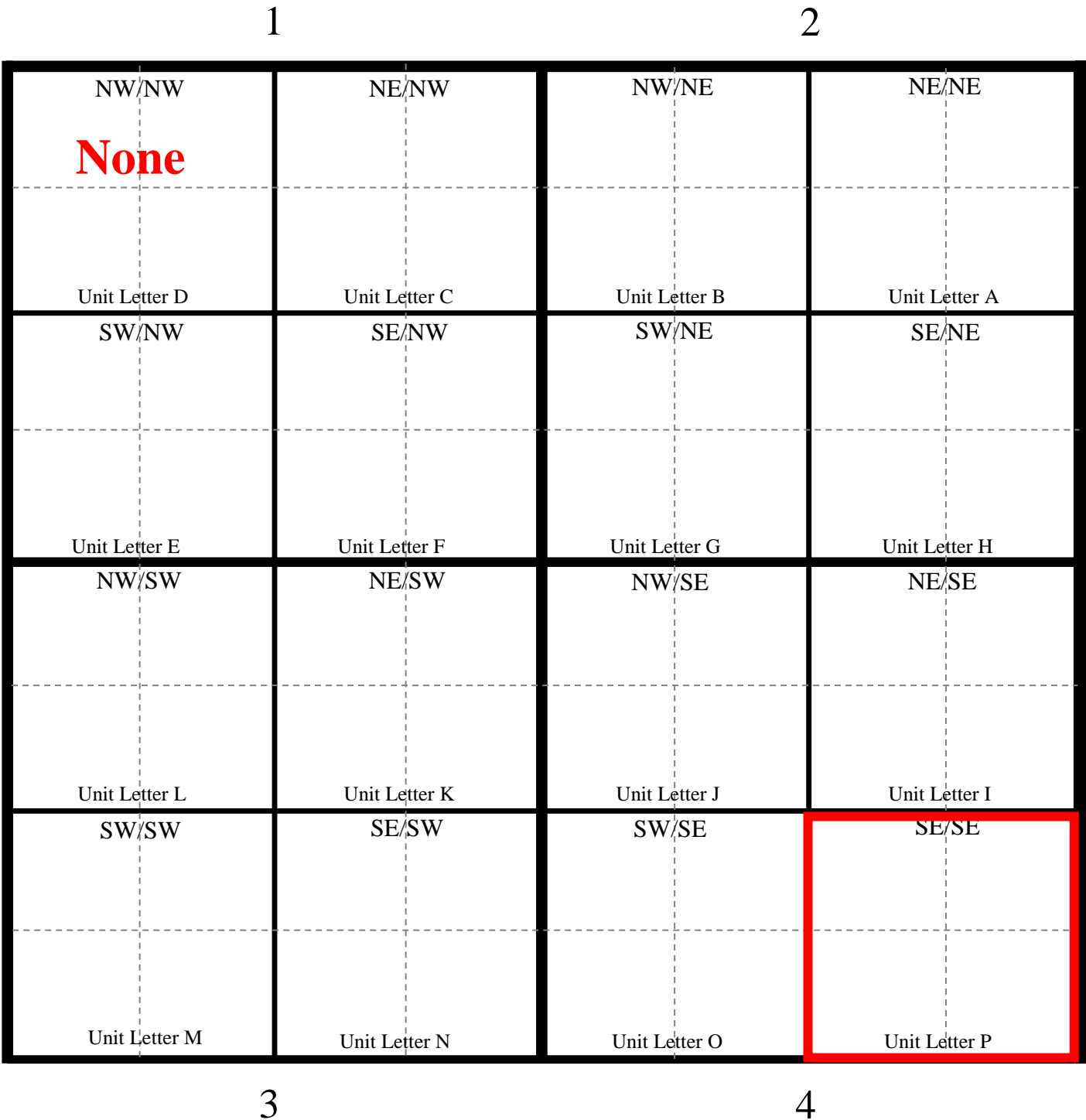
● SEO

● All Databases

Oxy Pure Gold B Federal #004

County Eddy	Unit Letter P	Section 20	Township 23S	Range 31E
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Trend Map 125'-150'

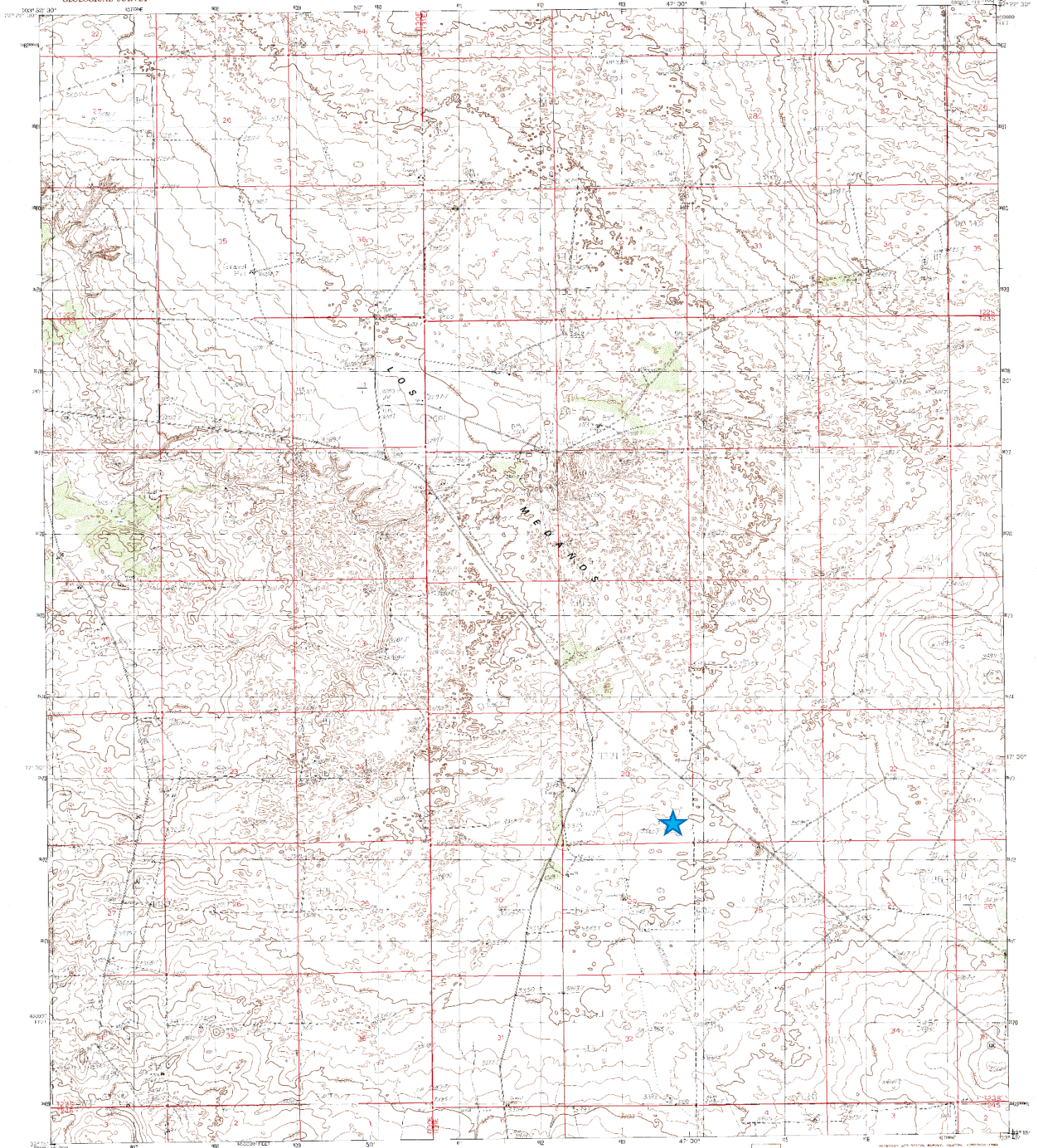


Oxy

Pure Gold B Federal #004

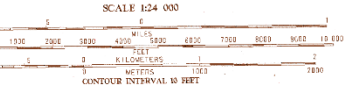
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTENT BY
CONTENTS FROM AERIAL PHOTOGRAPHS TAKEN
FIELD CHECKS
PROJECTION
GRID SYSTEM
ELEVATION DATA
MAGNETIC NORTH DECLINATION
VERTICAL DATUM
To place on the predicated North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
0 meters south and 45 meters east.
There may be errors in buildings 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. 3



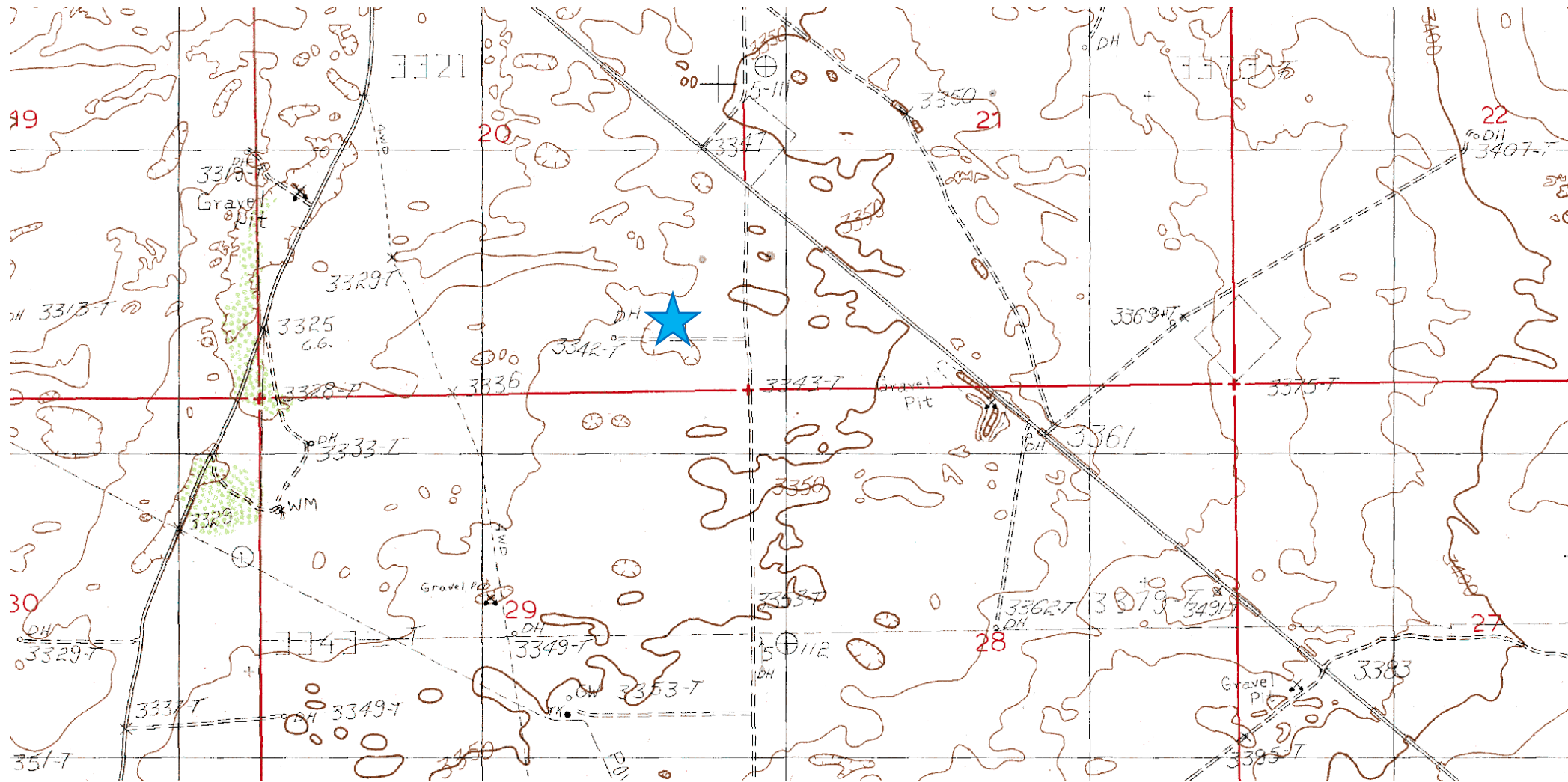
QUADRANGLE LOCATION		
1	2	3
4	5	6
7	8	9

ADJOINING 15' QUADRANGLE NAMES

ROAD LEGEND
Improved Road
Unimproved Road
Trail
Instantaneous Route
U.S. Route
State Route
LOS MEDAÑOS, NEW MEXICO
PROVISIONAL EDITION 1985
1011457-1004

Oxy

Pure Gold B Federal #004



**Laboratory Analytical Results Summary
Pure Gold B Federal #004**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	11/30/16	11/30/16	11/30/16	11/30/16
			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	SM4500CI-B		5360	1410	544	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	13.9

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	11/30/16	11/30/16	11/30/16	11/30/16
			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	SM4500CI-B		1060	304	336	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	12.2	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	11/30/16	11/30/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		496	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP4 @ 1'
Analyte	Method	Date	11/30/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 06, 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 12/01/16 11:50.

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.

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, flowing 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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 1' (H602685-01)

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	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	12/02/2016	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	12/01/2016	ND	188	93.9	200	2.53	
DRO >C10-C28	<10.0	10.0	12/01/2016	ND	198	99.0	200	2.83	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 2' (H602685-02)

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	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	12/02/2016	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	12/01/2016	ND	188	93.9	200	2.53	
DRO >C10-C28	<10.0	10.0	12/01/2016	ND	198	99.0	200	2.83	

Surrogate: 1-Chlorooctane 87.9 % 35-147

Surrogate: 1-Chlorooctadecane 98.8 % 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:

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

Received: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 3' (H602685-03)

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	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/02/2016	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	12/01/2016	ND	188	93.9	200	2.53	
DRO >C10-C28	<10.0	10.0	12/01/2016	ND	198	99.0	200	2.83	

Surrogate: 1-Chlorooctane 88.4 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 4' (H602685-04)

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	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	13.9	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 83.4 % 35-147

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

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Cliff Brunson
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Received: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H602685-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTX	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 96.1 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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P.O. Box 805
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Received: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 2' (H602685-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTX	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	12.2	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

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Received: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 3' (H602685-07)

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	12/05/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/05/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/05/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/05/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Cliff Brunson
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Received: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 4' (H602685-08)

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	12/06/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/06/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/06/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/06/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 85.2 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 28-171

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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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 1' (H602685-09)

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	12/06/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/06/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/06/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/06/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/02/2016	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	12/02/2016	ND	208	104	200	6.13	
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	225	113	200	3.55	

Surrogate: 1-Chlorooctane 89.1 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2' (H602685-10)

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	12/06/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/06/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/06/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/06/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/02/2016	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	12/02/2016	ND	182	90.9	200	1.79	QR-03
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	192	96.0	200	2.43	QR-03

Surrogate: 1-Chlorooctane 69.6 % 35-147

Surrogate: 1-Chlorooctadecane 71.0 % 28-171

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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: 12/01/2016
Reported: 12/06/2016
Project Name: PURE GOLD B FED #4
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 11/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 1' (H602685-11)

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	12/06/2016	ND	2.25	113	2.00	0.931	
Toluene*	<0.050	0.050	12/06/2016	ND	2.33	117	2.00	1.15	
Ethylbenzene*	<0.050	0.050	12/06/2016	ND	2.26	113	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/06/2016	ND	6.86	114	6.00	1.75	
Total BTEx	<0.300	0.300	12/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/02/2016	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	12/02/2016	ND	182	90.9	200	1.79	
DRO >C10-C28	<10.0	10.0	12/02/2016	ND	192	96.0	200	2.43	

Surrogate: 1-Chlorooctane 82.7 % 35-147

Surrogate: 1-Chlorooctadecane 84.5 % 28-171

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1082

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																			
Project Manager: Cliff Brunson		P.O. #:																					
Address: P.O. Box 805		Company: Oxy																					
City: Hobbs		Attn: Casey Summers																					
State: NM Zip: 88241		Address:																					
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																					
Project #: Project Owner: Oxy		State: Zip:																					
Project Name: Pure Gold B Federal #004		Phone #:																					
Project Location: Eddy County, NM		Fax #:																					
Sampler Name: Jeff Ornelas																							
FOR LAB USE ONLY																							
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV		SAMPLING															
H602685		# CONTAINERS		GROUNDWATER		WASTEWATER		DATE		TIME													
01 SP1 @ 1'		✓		✓		✓		11/30/16		8:45 AM		BTEX											
02 SP1 @ 2'		✓		✓		✓		11/30/16		9:11 AM		CI											
03 SP1 @ 3'		✓		✓		✓		11/30/16		9:33 AM		TPH											
04 SP1 @ 4'		✓		✓		✓		11/30/16		9:49 AM													
05 SP2 @ 1'		✓		✓		✓		11/30/16		10:20 AM													
06 SP2 @ 2'		✓		✓		✓		11/30/16		10:33 AM													
07 SP2 @ 3'		✓		✓		✓		11/30/16		10:59 AM													
08 SP2 @ 4'		✓		✓		✓		11/30/16		11:37 AM													
09 SP3 @ 1'		✓		✓		✓		11/30/16		1:11 PM													
10 SP3 @ 2'		✓		✓		✓		11/30/16		1:40 PM													
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By:		Date: 11/30/16		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
Relinquished By: [Signature]		Time: 4:30 PM		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Delivered By: (Circle One) #75		Date: 11/30/16		Received By: [Signature]		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: [Signature]															
Sampler - UPS - Bus - Other: [Signature]		Time: 11:50		Received By: [Signature]		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>															
REMARKS:																							

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

From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#)
Cc: [Weaver, Crystal, EMNRD](#); [Casey Summers](#); [Jennifer Hudgens](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Tucker, Shelly](#)
Subject: RE: OXY - Pure Gold B Federal #004 (2RP-4021) - Remediation Plan
Date: Wednesday, February 15, 2017 2:21:39 PM

RE: OXY USA * Pure Gold B Fed 4 * **2RP-4021** * DOR: 11/21/16

Cliff,

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

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 St.
Artesia NM 88210
575-748-1283 Ext 108
mike.bratcher@state.nm.us

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, February 7, 2017 3:22 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Casey Summers <Casey_Summers@oxy.com>; Jennifer Hudgens <jennifer_hudgens@oxy.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: OXY - Pure Gold B Federal #004 (2RP-4021) - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Pure Gold B Federal #004 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 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
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From: Tucker, Shelly
To: [Cliff Brunson](#)
Cc: [Casey Summers](#); [Jennifer Hudgens](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: OXY - Pure Gold B Federal #004 - Remediation Plan
Date: Tuesday, February 14, 2017 2:47:22 PM

BLM concurs with the NMOCD approval.

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

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

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 Tue, Feb 7, 2017 at 3:26 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Shelly,

I have attached a remediation plan for the OXY Pure Gold B Federal #004 release. This plan has been approved by Mike Bratcher of the NMOCD. OXY is requesting the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if

you would respond via email with the BLM's approval.

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

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