

**OXY USA**

APR 20 2009

## **Site Remediation Summary**

**Pure Gold A Federal #8**

**Eddy County, NM**

**API 30-015-35296**

**UL. F. Sec. 21, T23S, R31E**

**GPS N32 17.508 W103 47.118**

**Start date: 10Feb09**

**Finish date: 18Mar09**

**Prepared By: Vernon K. Black**

Environmental Technician

Hungry Horse Environmental, LLC

PO Box 1058

Hobbs, NM 88240

(575)-393-3386



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## 1.0 Introduction

This report addresses the site remediation at OXY USA's Pure Gold A Fed #8. The nature of the remediation was a release from a water tank. Analytical results, a sketch of the affected area, a description of the work performed, and overhead maps are included in this document as attachments. The project manager for Hungry Horse Environmental Services was David Carter.

## 2.0 Area Description

The top thirteen feet of soil is mainly sand laced with deposits of caliche. Below this layer, the formation begins to turn to clay. The depth to the ground water is 100 feet based on information from the Eddy County Depth to Ground Water Map. There are no water wells or surface bodies of water within a half of a mile of this location. This location is in Eddy County, NM approximately 70 miles west of Hobbs, New Mexico off Highway 128, north of the intersection of Pure Gold Road and Highway 128.

## 3.0 Site Remediation Process

Due to having three distinct areas affected by the release, this project was divided into three separate work areas, the area south of the tank battery (SP's 1&2), the area west of the tank battery (SP 3), and the inside of the tank battery (SP 4&5). Each affected area was addressed and remediated separately. All contaminated soil was disposed of at a NM OCD approved facility.

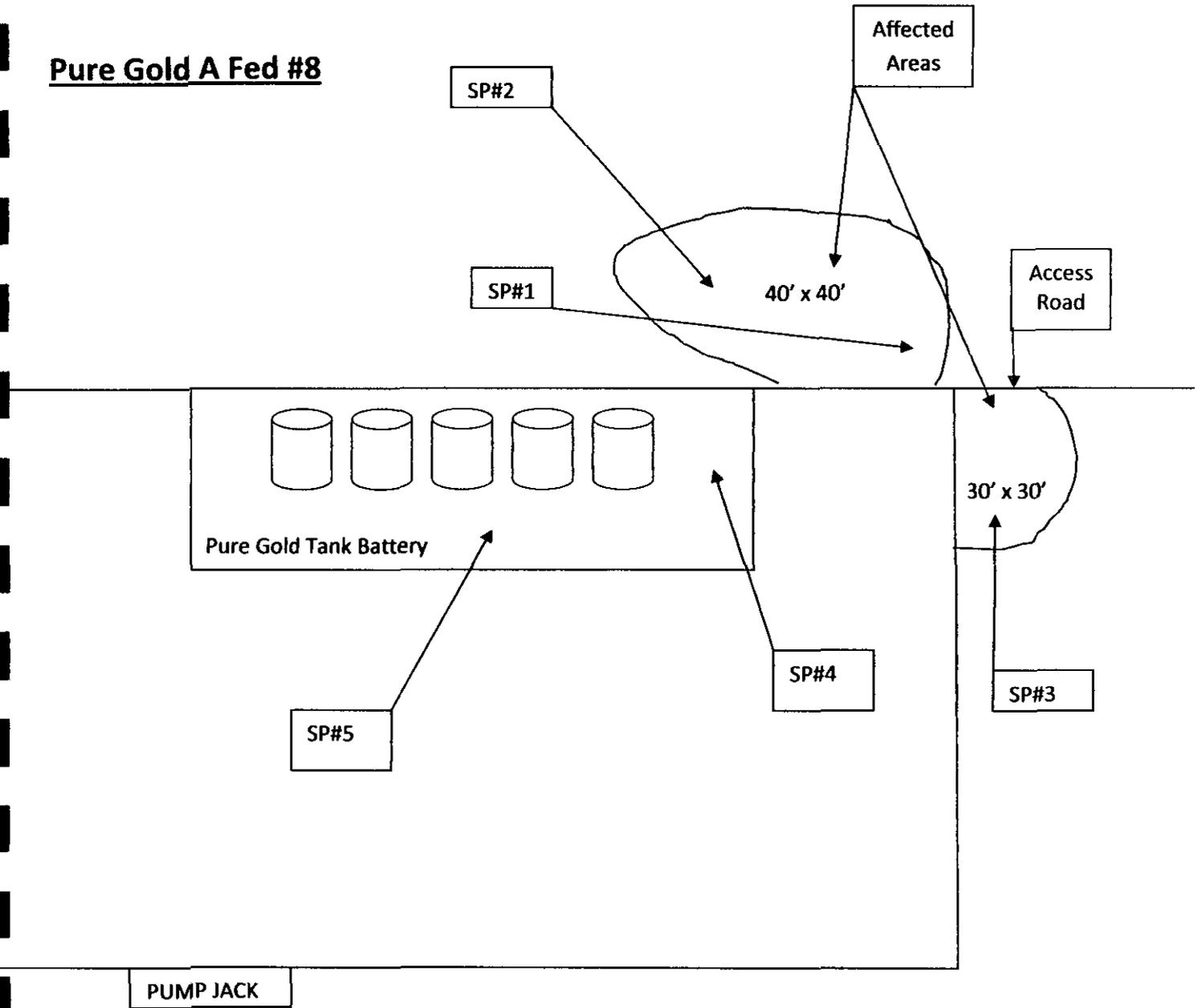
The affected area south of the tank battery had two spots that were remediated, SP 1&2. SP1 had very low concentrations of contaminants with only slight discoloration and was remediated by blending this soil in with deeper soil. SP2 had surface contamination only and was remediated by removing approximately one foot of contaminated soil and backfilling with clean material. The affected area was then contoured to match the surrounding landscape and re-seeded using a BLM #2 seed mixture.

The affected area west of the tank battery, SP3, was remediated by removing five feet of contaminated material from an area approximately 30' x 30'. Once soil analysis confirmed the outward perimeter of contamination had been remediated, the excavated area was lined with a 20mil synthetic liner, and backfilled with clean material. The affected area was then contoured to match the surrounding terrain and re-seeded using the same seed mixture as the area south of the tank battery.

The inside of the tank battery, SP 4&5, had one foot of contaminated soil removed by hand. The tank battery was then lined with a 20mil synthetic liner. The liner was placed underneath all exposed lines and underneath the edges of the tanks. The area was then backfilled with clean material and topped with pea gravel.

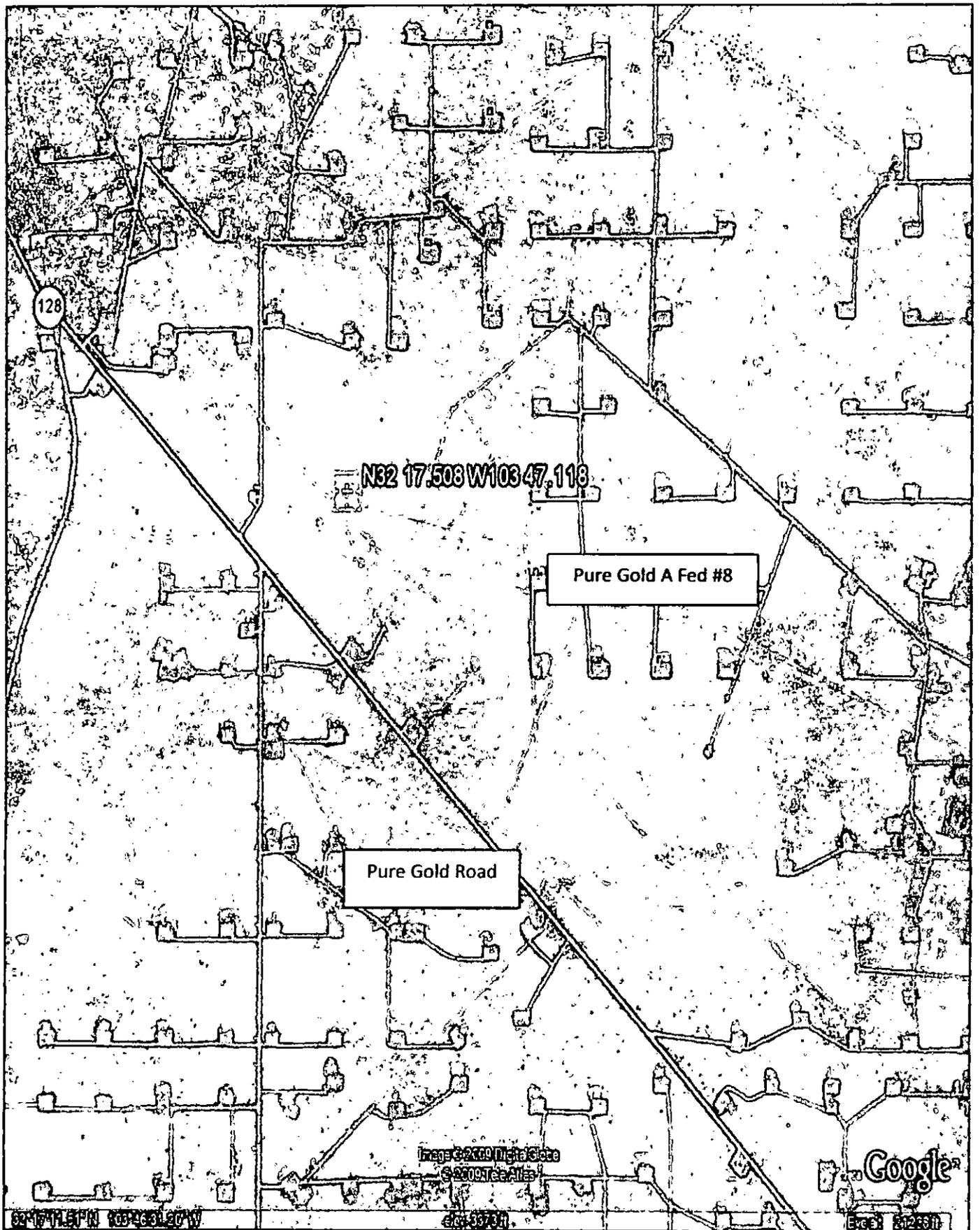


**Pure Gold A Fed #8**



Note: Drawing note to Scale

# Attachment 1



NE2 17.508 W103 47.118

Pure Gold A Fed #8

Pure Gold Road

Image © 2009 DigitalGlobe  
© 2009 Google, Inc. All rights reserved.

Google

62° 17' 14.51" N 103° 03' 31.50" W

43133701

Page 1 of 2 (3/11)

**Attachment 2**



# ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR  
HUNGRY HORSE ENVIRONMENTAL SERVICES  
ATTN: VERNON K. BLACK  
P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (575) 391-4585

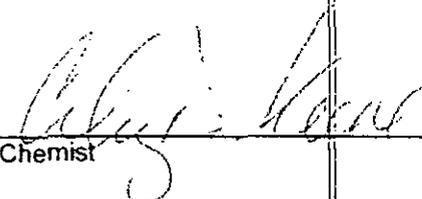
Receiving Date: 10/22/08  
Reporting Date: 10/29/08  
Project Owner: OXY USA  
Project Name: PURE GOLD A FED #8  
Project Location: EDDY COUNTY, NM

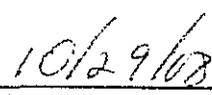
Sampling Date: 10/14/08 & 10/20/08  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	10/28/08	10/28/08	10/28/08	10/28/08
H16165-1 SP#1 SURFACE	<0.050	<0.050	<0.050	<0.300
H16165-2 SP#1 2' BGS	<0.050	<0.050	<0.050	<0.150
H16165-3 SP#2 SURFACE	<0.050	0.104	0.335	2.37
H16165-4 SP#2 2' BGS	<0.050	<0.050	<0.050	<0.300
H16165-5 SP#3 SURFACE	<0.050	<0.050	<0.050	<0.300
H16165-6 SP#3 5' BGS	<0.050	<0.050	<0.050	<0.300
H16165-7 SP#3 10' BGS	<0.050	<0.050	<0.050	<0.300
H16165-8 SP#3 12' BGS	<0.050	<0.050	<0.050	<0.300
Quality Control	0.045	0.050	0.051	0.156
True Value QC	0.050	0.050	0.050	0.150
% Recovery	90.0	100	102	104
Relative Percent Difference	16.3	1.0	0.8	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,  
AND TOTAL XYLENES.

  
\_\_\_\_\_  
Chemist

  
\_\_\_\_\_  
Date

ANALYTICAL RESULTS FOR

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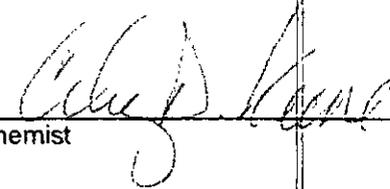
Receiving Date: 10/22/08  
 Reporting Date: 10/29/08  
 Project Owner: OXY USA  
 Project Name: PURE GOLD A FED #8  
 Project Location: EDDY COUNTY, NM

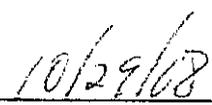
Sampling Date: 10/20/08  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: ML  
 Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	10/28/08	10/28/08	10/28/08	10/28/08
H16165-9 SP#3 13' BGS	<0.050	<0.050	<0.050	<0.300
H16165-10 SP#4 SURFACE	<0.050	0.066	0.063	0.476
H16165-11 SP#4 5' BGS	<0.050	<0.050	<0.050	0.304
H16165-12 SP#4 8' BGS	<0.050	<0.050	<0.050	0.383
H16165-13 SP#4 10' BGS	<0.050	<0.050	<0.050	<0.300
H16165-14 SP#5 SURFACE	2.06	26.5	18.1	76.4
H16165-15 SP#5 1' BGS	<0.050	0.143	0.122	0.683
H16165-16 SP#5 3' BGS	<0.050	<0.050	<0.050	<0.300
H16165-17 SP#5 5' BGS	<0.050	<0.050	<0.050	<0.300
Quality Control	0.045	0.050	0.051	0.156
True Value QC	0.050	0.050	0.050	0.150
% Recovery	90.0	100	102	104
Relative Percent Difference	16.3	1.0	0.8	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

  
 Chemist

  
 Date

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 ATTN: VERNON K. BLACK  
 P.O. BOX 1058  
 HOBBS, NM 88241  
 FAX TO: (575) 391-4585

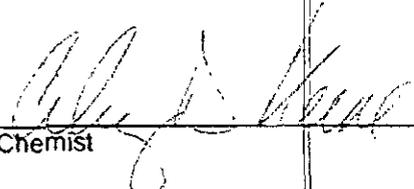
Receiving Date: 10/22/08  
 Reporting Date: 10/27/08  
 Project Owner: OXY USA  
 Project Name: PURE GOLD A FED #8  
 Project Location: EDDY COUNTY, NM

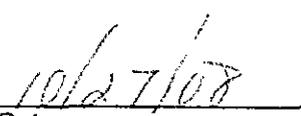
Sampling Date: 10/14/08 & 10/20/08  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: ML  
 Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>5</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	(mg/kg)
	ANALYSIS DATE	10/23/08	10/23/08	10/23/08
H16165-1	SP#1 SURFACE	<10.0	<10.0	96
H16165-2	SP#1 2' BGS	<10.0	30.1	48
H16165-3	SP#2 SURFACE	427	14,800	2,240
H16165-4	SP#2 2' BGS	28.8	31.3	32
H16165-5	SP#3 SURFACE	<10.0	37.6	9,600
H16165-6	SP#3 5' BGS	<10.0	<10.0	5,840
H16165-7	SP#3 10' BGS	<10.0	<10.0	3,920
H16165-8	SP#3 12' BGS	<10.0	<10.0	432
H16165-9	SP#3 13' BGS	<10.0	78.8	432
H16165-10	SP#4 SURFACE	10.9	46.4	4,720
H16165-11	SP#4 5' BGS	<10.0	10.2	1,410
H16165-12	SP#4 8' BGS	27.8	341	2,280
H16165-13	SP#4 10' BGS	<10.0	<10.0	288
	Quality Control	538	486	510
	True Value QC	500	500	500
	% Recovery	108	97.2	102
	Relative Percent Difference	4.5	1.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI/B

\*Analyses performed on 1:4 w:v aqueous extracts.

  
 Chemist

  
 Date

H16165 TCL HHE

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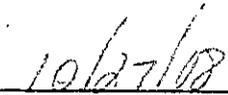
Receiving Date: 10/22/08  
Reporting Date: 10/27/08  
Project Owner: OXY USA  
Project Name: PURE GOLD A FED #8  
Project Location: EDDY COUNTY, NM

Sampling Date: 10/20/08  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>5</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	(mg/kg)
ANALYSIS DATE		10/23/08	10/23/08	10/23/08
H16165-14	SP#5 SURFACE	4,240	15,800	1,460
H16165-15	SP#5 1' BGS	<10.0	<10.0	2,360
H16165-16	SP#5 3' BGS	<10.0	<10.0	80
H16165-17	SP#5 5' BGS	<10.0	<10.0	48
Quality Control		559	516	510
True Value QC		500	500	500
% Recovery		112	103	102
Relative Percent Difference		9.0	4.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB  
\*Analyses performed on 1:4 w:v aqueous extracts.

  
\_\_\_\_\_  
Chemist

  
\_\_\_\_\_  
Date

H16165 TCL HME





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(575) 393-2326 Fax (575) 393-2476

Company Name: Hungry Horse Environmental Services  
 Project Manager: Vernon K. Black  
 Address: P.O. Box 1058  
 City: Hobbs State: NM Zip: 88241  
 Phone #: 575-393-3386 Fax #: 575-393-4585  
 Project #: \_\_\_\_\_ Project Owner: DAY USA  
 Project Name: Rice Gold A Fed #8  
 Project Location: Eddy County NM  
 Sampler Name: Vernon K. Black

## BILL TO

P.O. #: \_\_\_\_\_  
 Company: SAME  
 Attn: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

## ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (COMP)	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME
11-10-10	SP #4 Surface	9		WASTEWATER GROUNDWATER SLUDGE OIL OTHER	Y Y Y Y Y	Y Y Y Y Y	11-10-10	0950
11-10-11	SP #4 5' BGS							
11-10-12	SP #4 8' BGS							
11-10-13	SP #4 10' BGS							
11-10-14	SP #5 Surface							
11-10-15	SP #5 1' BGS							
11-10-16	SP #5 3' BGS							
11-10-17	SP #5 5' BGS							

Chlorides  
 TPH  
 BTEX

Quanta Services

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Sampler Relinquished: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Delivered By: (Circle One) \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_  
 Phone Result:  No  No  
 Fax Result:  No  No  
 Add'l Phone #: \_\_\_\_\_  
 Add'l Fax #: \_\_\_\_\_  
 REMARKS:

Received by: Dayton  
 Time: 0810  
 Temp: \_\_\_\_\_  
 Sample Condition: \_\_\_\_\_  
 Cool Intact:  Yes  No  
 Initials: MSB

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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101 East Marland, Hobbs, NM 88240  
(575) 393-2326 Fax (575) 393-2476

Company Name: Hungry Horse Environmental Services  
 Project Manager: Vernon K. Black  
 Address: P.O. Box 1058 State: NM Zip: 88241  
 City: Hobbs Phone #: 575-393-3386 Fax #: 575-391-4585  
 Project #: \_\_\_\_\_ Project Owner: XY USA  
 Project Name: Rose Gold A-Fe-#8  
 Project Location: Eddy County NM  
 Sampler Name: Vernon K. Black

## ANALYSIS REQUEST

Lab I.D.	Sample I.D.	MATRIX	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	PRESERV	SAMPLING	DATE	TIME
H16885-1	SP #3	GROUNDWATER	1	1	1	1	1	1	1	1	1/17/04	1300
-2	North wall	SOIL	1	1	1	1	1	1	1	1		
-3	South wall	SOIL	1	1	1	1	1	1	1	1		
-4	East wall	SOIL	1	1	1	1	1	1	1	1		
-5	West wall	SOIL	1	1	1	1	1	1	1	1		
-6												
-7												

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Terms and Conditions: interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice and all costs of collections, including attorney's fees.

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

Retinquished By: VK Black Date: 1/16/04 Time: 1500  
 Delivered By: (Circle One) UPS  
 Sampler: UPS · Bus · Other:  
 Checked By: JAS  
 Sample Condition: Cool  Intact  Yes  No

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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P.O. BOX 1058  
HOBBS, NM 88241  
FAX TO: (575) 391-4585

Receiving Date: 02/11/09  
Reporting Date: 02/12/09  
Project Owner: OXY USA  
Project Name: PURE GOLD A FED #8  
Project Location: EDDY COUNTY, NM

Analysis Date: 02/12/09  
Sampling Date: 02/11/09  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: AB  
Analyzed By: TR

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/kg)
	<b>SP #3</b>	
H16885-1	NORTH WALL 5' BGS	16
H16885-2	SOUTH WALL 5' BGS	32
H16885-3	EAST WALL 5' BGS	48
H16885-4	WEST WALL 5' BGS	32
	<b>SP #2</b>	
H16885-5	#1 1' BGS	16
H16885-6	#2 1' BGS	<16
H16885-7	#3 1' BGS	16
	Quality Control	500
	True Value QC	500
	% Recovery	100
	Relative Percent Difference	<0.1

METHOD: Standard Methods 4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

02/12/09  
Date

H16885 HHE

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# Attachment 3

NEW MEXICO ONE CALL  
Locate Request Confirmation

Ticket #:2008421524  
Work to Begin Date: 10/17/2008

Reason Code:STANDARD LOCATE  
Time: 11:33:00 AM

CALLER INFORMATION

DAVID CARTER  
HUNGRY HORSE LLC

Excavator Type:CONTRACTOR  
Tel.:(575)441-5264

DIG LOCATION

City:RURAL EDDY  
Subdivision:  
Address : To:  
Street : PURE GOLD FED # 8  
Nearest Intersecting Street :  
Second Intersecting Street :

Additional Dig Information:

CLEAN UP SPILL --- FROM EUNICE W ON DELAWARE BASIN  
RD TO NM-128 TO YELLOW GATE THAT SAYS "OXY" - L  
0.2MI - R TO LOCATION ON L--- SPOT 50FT AROUND  
FLAGGING -- OPEN ACCESS / NO HAZARDS ---

Remarks:

Township: 23S Range: 31E Section 1/4: 21 SE  
Township: 23S Range: 31E Section 1/4: 21 SW  
Township: 23S Range: 31E Section 1/4: 21 NE  
Township: 23S Range: 31E Section 1/4: 21 NW

Type of Work: BURY-ALL UTILITY SVCS

The following utility owners have been notified of  
your proposed excavation site:

- AGAVE ENERGY COMPANY
- ENTERPRISE FIELD SERVICES - CARLSBAD
- DCP MIDSTREAM - EUNICE
- PLAINS PIPELINE, LP
- SOUTHERN UNION GAS SERVICES
- YATES PETROLEUM CORP

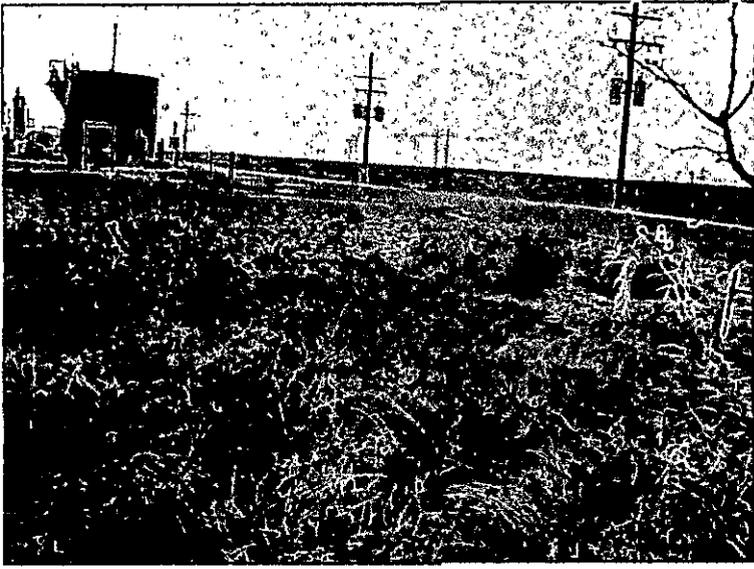
IMPORTANT CONFIRMATION NOTICE

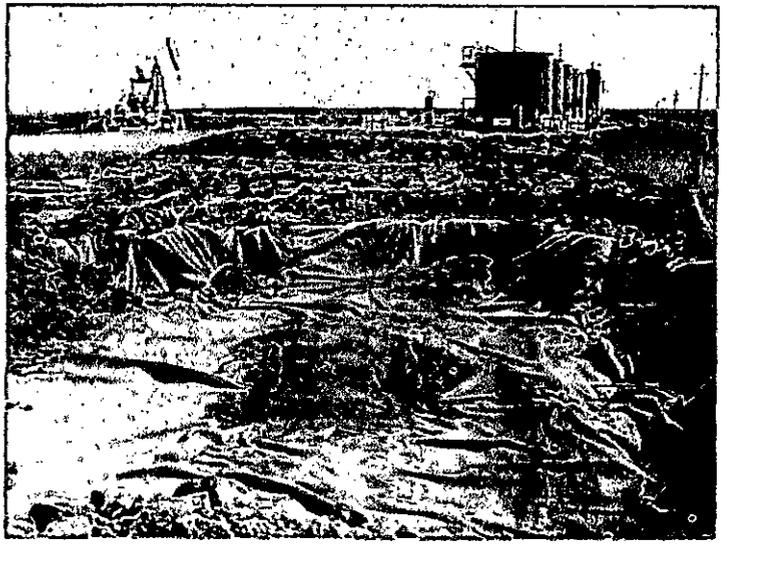
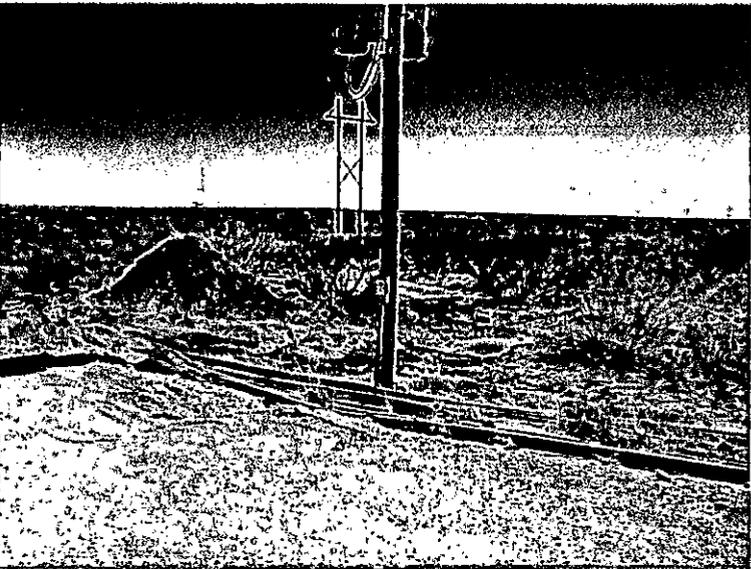
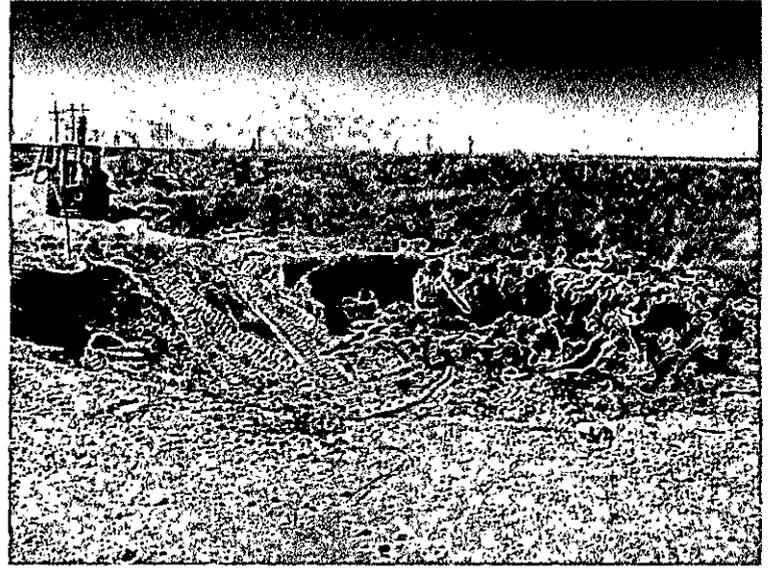
Your fax request has been received and processed. It is your  
responsibility to review the information provided on this faxback  
confirmation ticket and ensure it has been correctly interpreted from  
your request. Notify us immediately of any corrections or errors.

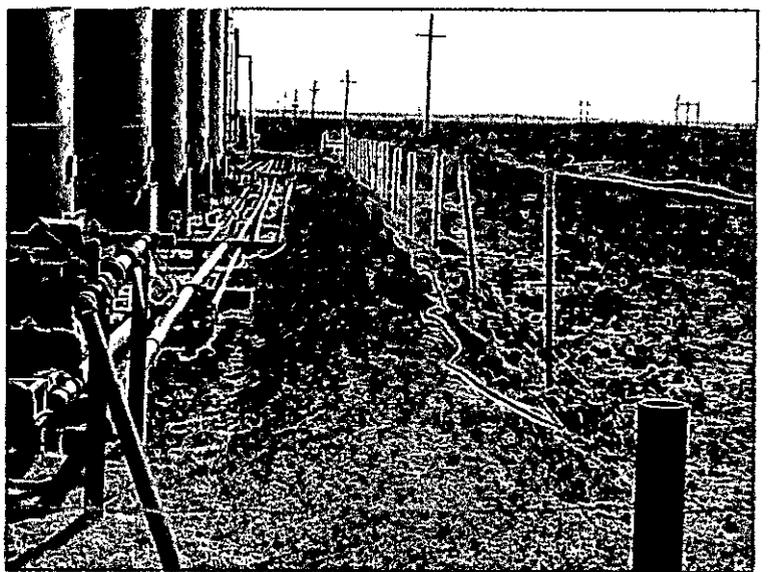
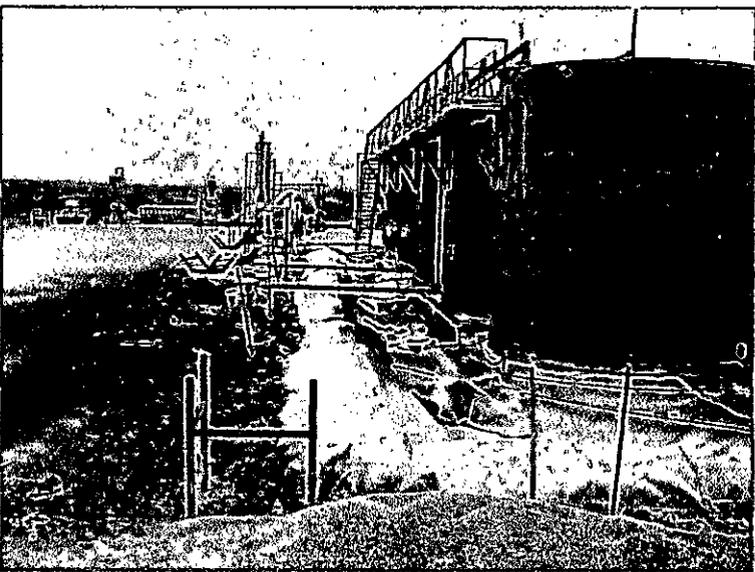
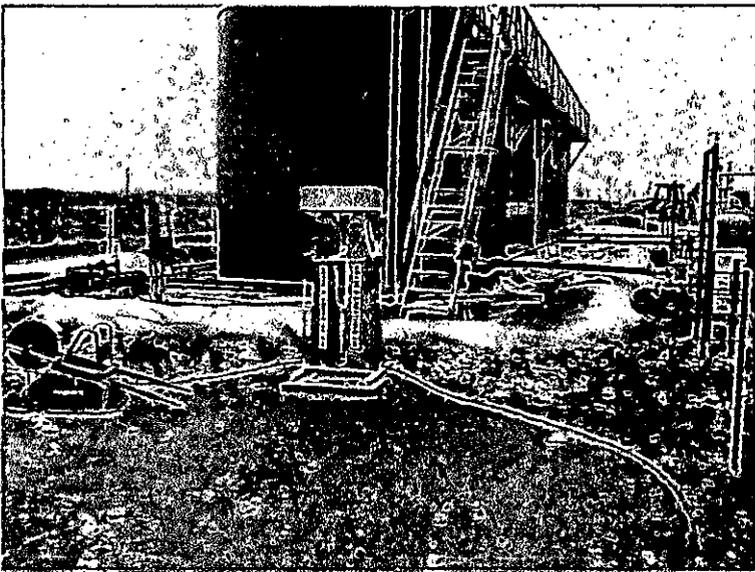
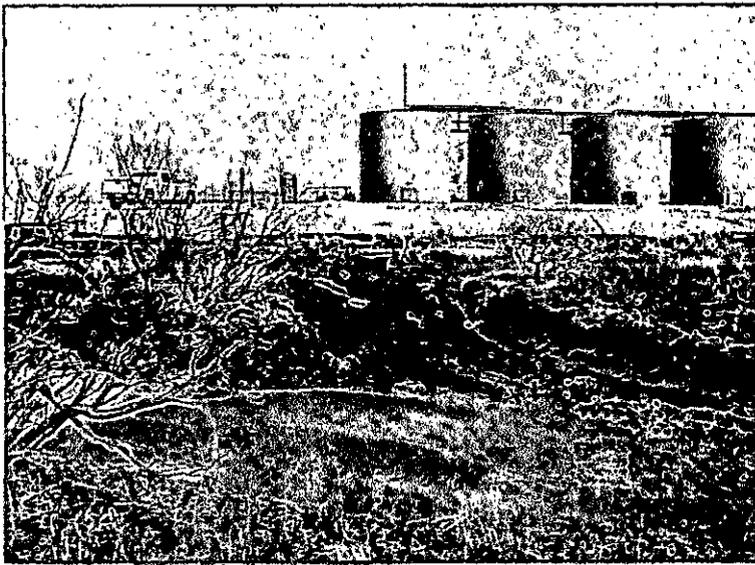
Acceptance of this faxback confirmation ticket means you accept  
responsibility for the accuracy of the information contained in the  
ticket and you agree to indemnify New Mexico One Call Systems, Inc. of

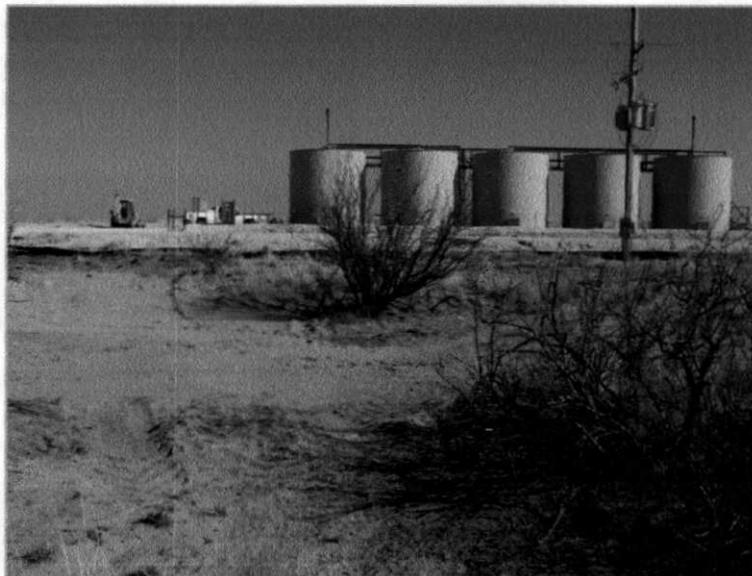
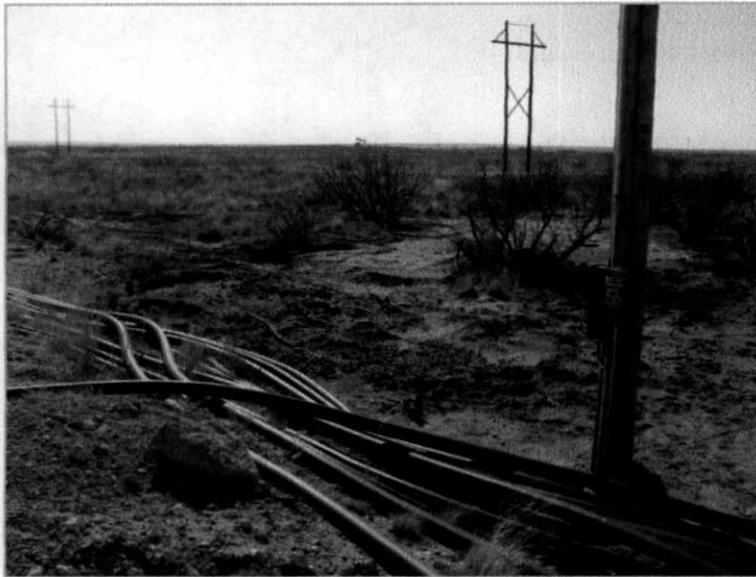
# Attachment 4











# Attachment 5

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

Oil Conservation Division **OCT 14 2008**  
1220 South St. Francis Dr. **OCD-ARTESIA**  
Santa Fe, NM 87505

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>OXY USA</b>	<b>16696</b>	Contact <b>Kelton Beard</b>
Address <b>102 S Main Carlsbad, NM 88220</b>		Telephone No. (O) <b>575-887-8337</b> C) <b>575-390-1903</b>
Facility Name <b>Pure Gold A Fed. #8</b>		Facility Type <b>Tank Battery</b>

Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	Lease No.
--------------------------	--------------------------	-----------

**3001535296**

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>F</b>	<b>21</b>	<b>23S</b>	<b>31E</b>					<b>Eddy</b>

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

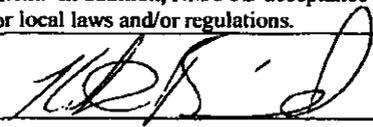
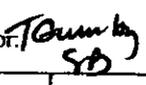
Type of Release <b>Produced Water &amp; Oil</b>	Volume of Release <b>500bbbls water 15bbbls oil</b>	Volume Recovered <b>110bbbls</b>
Source of Release <b>Tank Battery</b>	Date and Hour of Occurrence	Date and Hour of Discovery <b>10-8-08 @ 7:00am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Jim Amos (BLM) Sherry Bohnam (NMOCD)</b>	
By Whom? <b>Kelton Beard HES(Oxy)</b>	Date and Hour <b>See above</b>	
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.\*  
Water tank level got high; the alarm malfunctioned and did not go off causing the tank to overflow. A vac-truck was called, the alarm was fixed.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was inside the berm, on across the road and into the pasture. Delineation will occur to determine the extent of the contamination. A work plan will be submitted for approval.

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: <b>Kelton Beard</b>	Approved by District Supervisor: 	Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.
Title: <b>HES Specialist</b>	Approval Date: <b>10-22-08</b>	Expiration Date: <b>12-26-08</b>
E-mail Address: <b>kelton.beard@oxy.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>

Date: **10-10-08**  
\* Attach Additional Sheets If Necessary

Within 30 days, on or before **11-25-08** completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage

**2RP - 257**  
Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD

District I  
1625 N. French Dr., Hobbs, NM 88240  
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1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

APR 20 2009

Form C-141  
Revised October 10, 2003

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company OXY USA	Contact Kelton Beard
Address 102 S Main Carlsbad, NM 88220	Telephone No. 575 887 8337 Office 575 390 1903 cell
Facility Name Pure Gold A Federal #8	Facility Type Tank Battery
Surface Owner BLM	Mineral Owner BLM
Lease No. 30 015 35296	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	21	23S	31E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

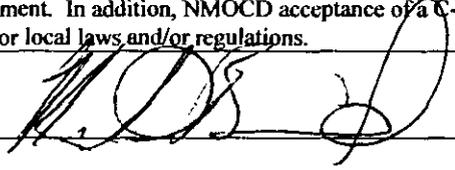
Type of Release Produced Water and Oil	Volume of Release 500bbls water 15bbls oil	Volume Recovered 110bbls
Source of Release Tank Battery	Date and Hour of Occurrence	Date and Hour of Discovery 8Oct08 @ 0700hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos (BLM) Sherry Bonham (NM OCD)	
By Whom? Kelton Beard OXY	Date and Hour See Above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
Water tank overflowed

Describe Area Affected and Cleanup Action Taken.\*  
The three areas affected, one are south of the road/battery, one area west of the road/battery, and the inside of the tank battery were remediated by excavating and disposing of the contaminated material as per NM OCD approved work plan. The area south of the battery had the least amount of contamination and was blended and had a small amount of surface excavation. It was then backfilled with clean material. The area west of the battery (approx 30' x 30') was excavated to a depth of 5'BGS, lined, and then backfilled. Both area were then contoured and re-seeded. The inside of the battery had 1 foot of material removed, lined with a 20mil liner, and then backfilled with clean material and pea gravel.

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: Kelton Beard	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: kelton_beard@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 27Mar09	Phone: 575 390 1903 cell	

\* Attach Additional Sheets If Necessary

# Attachment 6

**HUNGRY HORSE, LLC**  
**ENVIRONMENTAL SERVICES**

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Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

14Jan09

TO: Sherry Bonham  
NMOCD District II, Artesia  
REFERENCE: Remediation Work Plan – Amended from 31Oct08

OPERATOR: OXY USA  
LOCATION: Pure Gold A Federal #8  
API: 30-015-35296  
LEGALS: UL F, SEC. 21, T23S, R31E  
GPS: N32 17.508 W103 47.118  
DEPTH to GROUND WATER: (According Eddy to Depth to Ground Water Map)

General Site Characteristics: The release from the tank battery at this location affected areas in the pasture to the south and to the west of the battery as well as the area inside the berm. The area to the south has very low contaminant levels and is contained to a small area (approx 40' x 40'). The area to the west of the road was contained to a very small area (approx 30' x 30') due to the contour of the land.

Site ranking Score: 0 Depth to groundwater is >100', There is not a water source or domestic well within 1000'. There is no surface body of water within 1000'.

Soil Remediation Action Levels: Since Benzene, BTEX, and TPH are good according to the ranking criteria, remediation of the contaminants to the OCD acceptable level can be easily achieved. In the delineation process, chloride levels are shown to drop rather quickly due the presence of clay at approximately 10' BGS.

Delineation: lab results were included with the original work plan submitted 31Oct08.

Sketch of Affected Area: was included with the original work plan submitted 31Oct08.

**Amended Work Plan Proposal:** For the affected area south of the battery: Sample point #1-due to very low concentrations, we propose to blend the surface soil with the deeper soil to eliminate discoloration. Sample Point #2- Due to contaminant concentration at the surface only, we propose to remove 1 foot of contaminated material, obtain and analyze conformation samples from the walls, and backfill with like material. Sample point #3- we propose to remove 5 feet of contaminated material, obtain and analyze conformation samples from the walls, line the excavated area with a 20mil synthetic liner, and backfill with like material. Sample points #4 & #5 (inside the tank battery) - we propose to remove, by hand, 1

HUNGRY HORSE, LLC  
ENVIRONMENTAL SERVICES

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Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

foot of material, line the inside of the battery with a 20mil synthetic liner (up to and underneath the edge of the tanks and on the fire walls), and backfill.

Notes/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Submitted By: Vernon K. Black, Hungry Horse Environmental Services

Signature: *Vernon K. Black 14 Jan 09*

OCD Approval By: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**HUNGRY HORSE, LLC**  
**ENVIRONMENTAL SERVICES**

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Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

31Oct08

TO: Sherry Bonham  
NMOCD District II, Artesia  
REFERENCE: Remediation Work Plan

OPERATOR: OXY USA  
LOCATION: Pure Gold A Federal #8  
API: 30-015-35296  
LEGALS: UL F, SEC. 21, T23S, R31E  
GPS: N32 17.508 W103 47.118  
DEPTH to GROUND WATER: 100' (According Eddy to Depth to Ground Water Map)

**General Site Characteristics:** The release from the tank battery at this location affected areas in the pasture to the south and to the west of the battery as well as the area inside the berm. The area to the south has very low contaminant levels and is contained to a small area (approx 40' x 40'). The area to the west of the road was contained to a very small area (approx 30' x 30') due to the contour of the land.

**Site ranking Score: 0** Depth to groundwater is >100', There is not a water source or domestic well within 1000'. There is no surface body of water within 1000'.

**Soil Remediation Action Levels:** Since Benzene, BTEX, and TPH are good according to the ranking criteria, remediation of the contaminants to the OCD acceptable level can be easily achieved. In the delineation process, chloride levels are shown to drop rather quickly due the presence of clay at approximately 10' BGS.

**Delineation:** Lab results are included with this plan.

**Sketch of Affected Area:** A sketch (not drawn to scale) is included to be used in conjunction with the lab results and sample points.

**Work Plan Proposal:** For the affected area south of the battery: Sample point #1-due to very low concentrations, we propose to blend the surface soil with the deeper soil to eliminate discoloration. Sample #2- due to contaminant concentration at the surface only, we propose to blend this soil in with the deeper soil until we achieve a chloride concentration of <250ppm. For the area west of the battery: Sample point #3- due to the chloride level dropping rather quickly from the surface downward, we

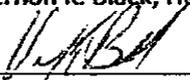
**HUNGRY HORSE, LLC**  
**ENVIRONMENTAL SERVICES**

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

For the area inside the battery, Sample points 4&5: Since this is an active battery and through delineation we have determined the depth to which the contaminants traveled, we propose to remove one foot of soil from inside the entire battery, backfill with clean caliche, line it with a 20mil liner, up to the tanks and around all lines and obstacles, and backfill with gravel.

Notes/Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Submitted By: **Vernon K. Black, Hungry Horse Environmental Services**

Signature: 

OCD Approval By: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



# Attachment 7

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

Joanna Phillips  
Cabinet Secretary  
Renee Furbush  
Deputy Cabinet Secretary

Mark Fesmire  
Division Director  
Oil Conservation Division



January 15, 2009

OXY USA, Inc  
PO Box 1988  
Carlsbad, NM 88221-1988

Reference: Pure Gold A Federal 008 30-015-35296  
F-21-23S-31E Eddy County, New Mexico  
2RP-257

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a remediation work plan (plan) for remediation of a release of produced fluids occurring at the above referenced facility.

The plan is accepted with the following stipulations:

- Proper disposition of excavated soils.
- Like approval from BLM.
- Notify the OCD 48 hours prior to commencement of remediation activities.
- Notify the OCD 48 hours prior to obtaining samples where analyses are to be submitted to the OCD. Notification is to include the date and time of the sample event(s).
- Remediation requirements may be subject to change as site conditions warrant.
- Results of analytical data obtained through sampling shall be forwarded to OCD for approval prior to any backfilling activities.
- A final Report C-141 is to be submitted to the OCD upon satisfactory completion of remediation project.
- Remediation to be completed on or before February 15, 2009.

OCD notes liner installation of 'up to and underneath the edge of the tanks and on the fire walls' as stated in the work plan. Please be advised that although the placement of the liner will assist in clean up operations in the event of future releases, this method of installation of up to and underneath the edge of the tanks should not to be construed as a complete and sufficient barrier in the event of another release.

Please be advised that NMOCD acceptance of this plan 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 this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Respectfully,

Sherry Bonham  
NMOCD District 2  
1301 W Grand Avenue  
Artesia, NM 88210  
575.748.1283 ext. 109  
[sherry.bonham@state.nm.us](mailto:sherry.bonham@state.nm.us)

cc: Jim Amos, BLM

