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

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

Form C-141
Revised October 10, 2003

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

nMCB0905437533

Release Notification and Corrective Action

30-015-35312

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company OXY USA 16696	Contact Mark Andersen
Address 6 Desta Drive, Suite 600	Telephone No. (432) 685-5600
Facility Name Pure Gold B Federal #19	Facility Type Flow line

Surface Owner	Mineral Owner	Lease No. NM-38463

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	20	23S	31E	645	North	2310	East	Eddy

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release 8 bbls	Volume Recovered 0
Source of Release Flowline released	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? 9/23/07 10:00 AM Jim Amos	
By Whom?	Date and Hour 9/24/07 1:00 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Restriction in the flow line created high pressure in the line causing the flow line to leak. Well was shut in. There were not free standing fluids.

Describe Area Affected and Cleanup Action Taken.*
Line was repaired, Spill area was assessed. The TPH and BTEX were all below the RRAL. The chloride impact at the site was shallow and decreased below 250 mg/kg at 1-1.5' below surface. Due to road construction, the road was expanded and encompassed the area of concern. A closure report was submitted to NMOCD for review.

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: (agent for OXY)	OIL CONSERVATION DIVISION Accepted for record NMOCD
Printed Name: Ike Tavarez	Approved by District Supervisor: FEB 23 2009
Title: Senior Project Manager	Approval Date: / Expiration Date:
E-mail Address: ike.tavarez@tetratech.com	Conditions of Approval: / Attached ☐
Date: 12-19-08 Phone: (432) 682-4559	

* Attach Additional Sheets If Necessary

2RP-297

TETRA TECH

JAN 21 2009
OCD-ARTESIA

December 15, 2008

Mr. Mike Bratcher
Environmental Bureau
Oil Conservation Division, District 2
1301 W. Grand Avenue
Artesia, NM 88210

Re: Assessment and Closure Report for the OXY USA, Inc., Pure Gold B Federal Well #19, Unit B, Section 20, Township 23 South, Range 31 East, Eddy County, New Mexico.

Dear Mr. Bratcher:

Tetra Tech (formerly Highlander Environmental Corp.) was contacted by Pogo Producing Company (Now Oxy USA, Inc.) to assess a spill from the Pure Gold B Federal #19 spill, located in Unit B, Section 20, Township 23 South, Range 31 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32° 17.767', W 103° 48.100. The Site is shown on Figure 1 and Figure 2.

Background

According to the State of New Mexico C-141 Initial Report, approximately 8 barrels (bbls) of produced water were released from a flow line and no fluids were recovered. The release occurred when a restriction in the flow line created a high pressure causing the flow line to leak. The State of New Mexico C-141 (Initial) is enclosed in Appendix C.

Groundwater and Regulatory

The State Engineer's Office database showed no wells located in Section 20, Township 23 South, Range 31 East. However the database did show a water well located in Section 7 with a reported water depth of 140 feet bgs and a second well located in Section 4 with a reported water depth of 168 feet bgs. The New Mexico State Engineers Well Reports are shown in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX

Tetra Tech
1910 North Big Spring, Midland,TX 79705
Tel 432 682 4559 Fax 432 682.3946 www.tetratech.com

(sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Assessment and Results

On 9/25/07, Highlander personnel inspected the flow line spill, which is located northeast of the Pure Gold Federal Well #14. The release occurred south of the Highway 128 fence line and measured approximately 50' x 100'. The area north of the fence line measured approximately 45' x 100' and consisted of overspray. A total of six (6) auger holes (AH-1 through and AH-6) were installed using a stainless steel hand auger to assess the impacted soils. Two samples (0-1' and 1-1.5') were collected from each auger hole. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 2. The results of the sampling are summarized in Table 1.

Sample Results

Of the samples collected, both the TPH and BTEX concentrations were below the RRAL for the site. The chloride analyses showed a shallow impact to the surface soils. The surface samples 0-1' at AH-1, AH-3 and AH-5 showed chloride concentrations of 4,820 mg/kg, 3,320 mg/kg and 1,150 mg/kg, respectively. However, the deeper samples from 1-1.5' showed chloride concentrations below 250 mg/kg. The remaining auger holes were all below 250 mg/kg.

Conclusions and Recommendations

No TPH and BTEX exceeded the RRAL in any of the samples. There was a shallow impact to the surface soils. Based on the results, Tetra Tech had proposed to either excavate or blend the areas of AH-1 and AH-3. However, due to the Highway construction on 128, the road was expanded and encompassed the area of concern. The construction area is shown on Figure 3. Based on the results and construction activities, OXY request closure of the Site. The State of New Mexico C-141 (Final) is enclosed in Appendix C.

If you require any additional information or have any questions or comments concerning the assessment/closure report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez, P.G.
Senior Environmental Geologist

cc: Mark Andersen – OXY USA, Inc.

FIGURES

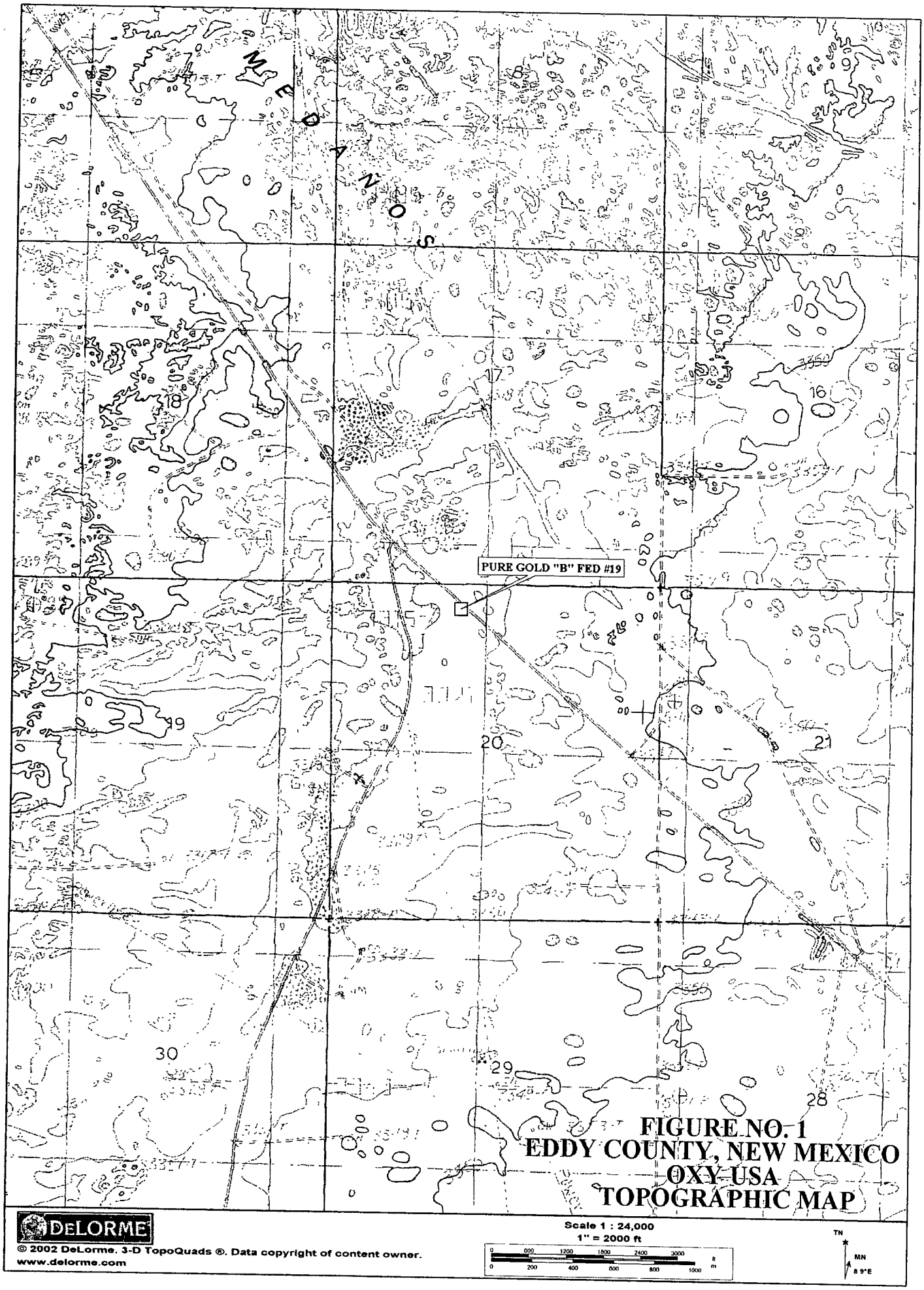


FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
OXY USA
TOPOGRAPHIC MAP

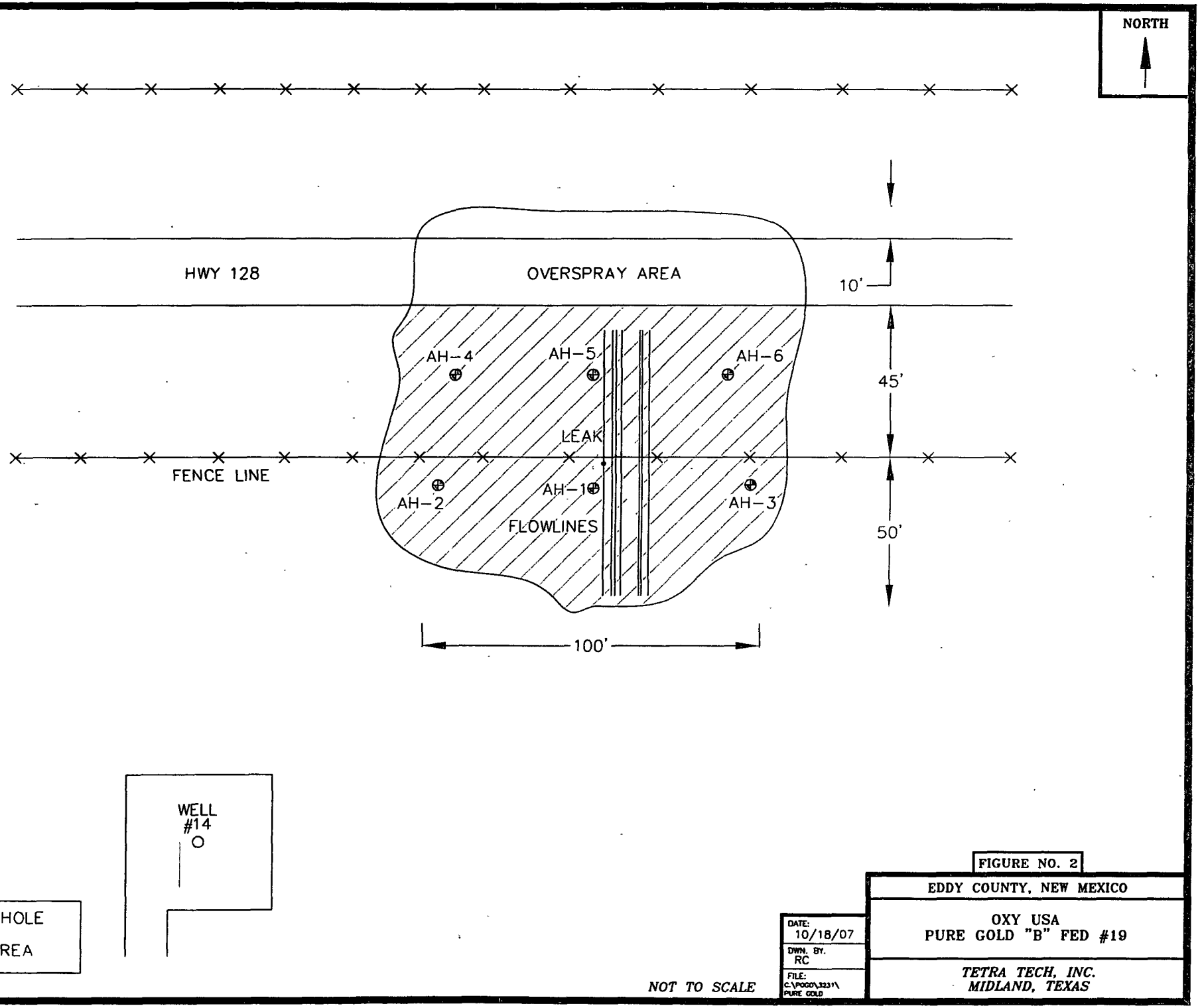
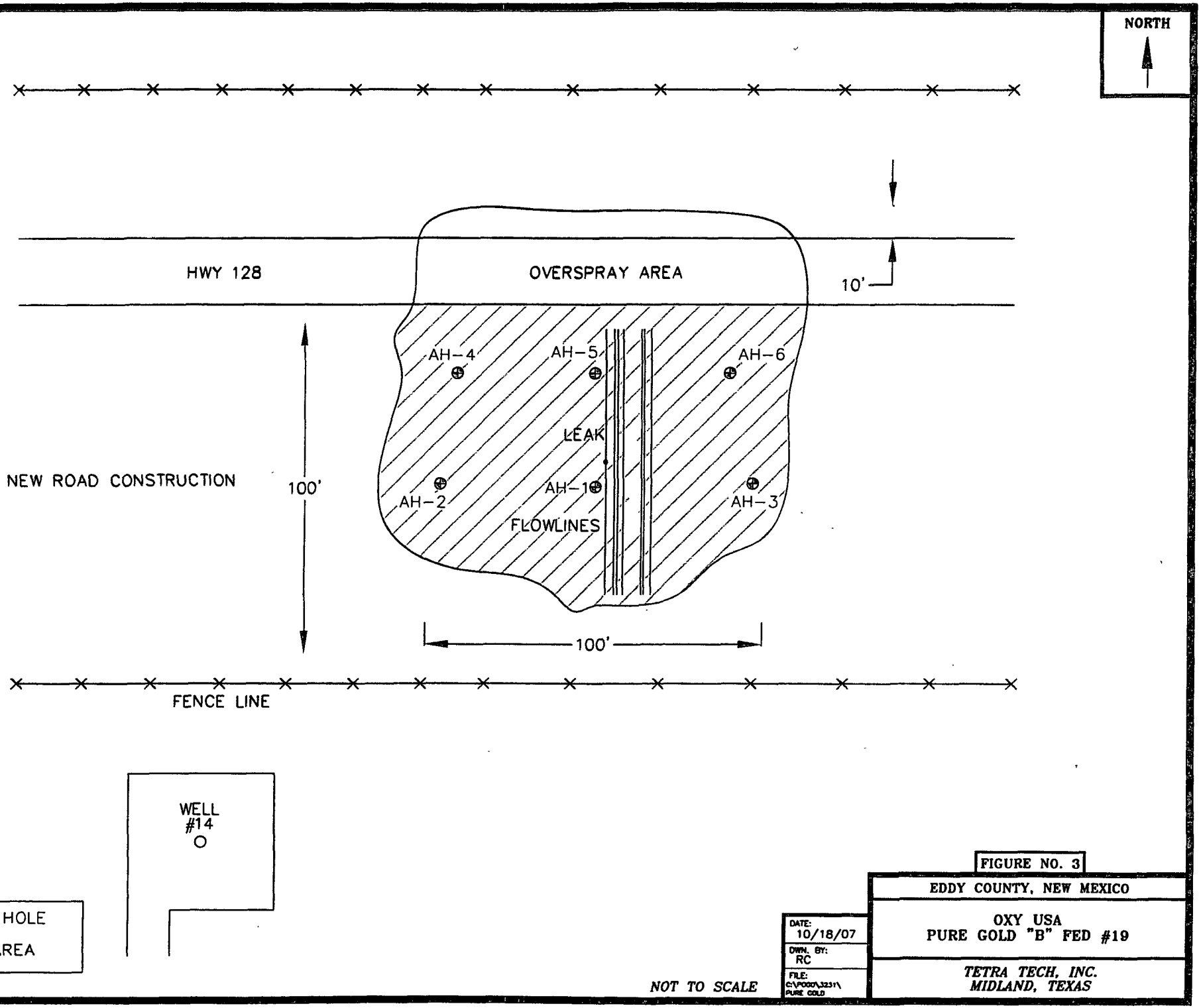


FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

OXY USA
PURE GOLD "B" FED #19

TETRA TECH, INC.
MIDLAND, TEXAS


NORTH
HWY 128
OVERSPRAY AREA
10'
AH-4
AH-5
AH-6
LEAK
NEW ROAD CONSTRUCTION
100'
AH-2
AH-1
AH-3
FLOWLINES
100'
FENCE LINE
WELL #14
AUGER HOLE
SPILL AREA
NOT TO SCALE
FIGURE NO. 3
EDDY COUNTY, NEW MEXICO
OXY USA
PURE GOLD "B" FED #19
DATE: 10/18/07
DWN. BY: RC
FILE: C:\P000\3231\PURE GOLD
TETRA TECH, INC.
MIDLAND, TEXAS

TABLE

Table 1
Oxy USA
Pure Gold Federal #19
Eddy County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
		In-situ	Removed		DRO	GRO	Total					
AH-1	9/25/2007	X		0-1	304	36.1	340.1	<0.02	<0.02	0.0363	0.1840	4,820
	9/25/2007	X		1-1.5	-	-	-					128
AH-2	9/25/2007	X		0-1	<50.0	3.53	3.53	<0.01	<0.01	<0.01	0.0296	<100
	9/25/2007	X		1-1.5	-	-	-					<100
AH-3	9/25/2007	X		0-1	95.3	5.1	100.4	<0.01	<0.01	<0.01	0.0335	3,320
	9/25/2007	X		1-1.5	-	-	-	-	-	-	-	<100
AH-4	9/25/2007	X		0-1	<50.0	1.13	1.13	-	-	-	-	<100
	9/25/2007	X		1-1.5	-	-	-	-	-	-	-	<100
AH-5	9/25/2007	X		0-1	100	1.35	101.35	-	-	-	-	1,150
	9/25/2007	X		1-1.5	-	-	-	-	-	-	-	<100
AH-6	9/25/2007	X		0-1	<50.0	<1.0	<50.0	-	-	-	-	<100
	9/25/2007	X		1-1.5	-	-	-	-	-	-	-	<100

(-) Not Analyzed

APPENDIX A
GROUNDWATER DATA

Water Well Data
Average Depth to Groundwater (ft)
OXY - Pure Gold B Federal #19, Eddy County, New Mexico

22 South 30 East

6	5 **48**	4	3	2	1
7 **65**	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 **256**	23	24
30	29	28	27	26	25
31	32 **25**	33 **155**	34	35	36

22 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16 **448**	15	14	13
19	20 **47**	21	22	23	24
30	29 **413**	28 **444**	27	26	25
31	32	33	34	35	36

22 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14 **382** **350**	13
19 (S) **280**	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

23 South 30 East

6 **110**	5	4	3	2 **250**	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34 **440**	35	36

23 South 31 East

6 **85**	5 **354**	4 **168**	3	2	1
7 **140**	8	9	10	11	12
18	17	16	15	14	13
19	20 **SITE**	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

23 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 **400**	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South 30 East

6	5	4	3	2	1
7	8 **186**	9	10	11	12
18	17	16	15	14	13
19 **231** **150**	20	21	22	23 **400**	24
30	29	28	27	26	25
31	32	33	34	35	36

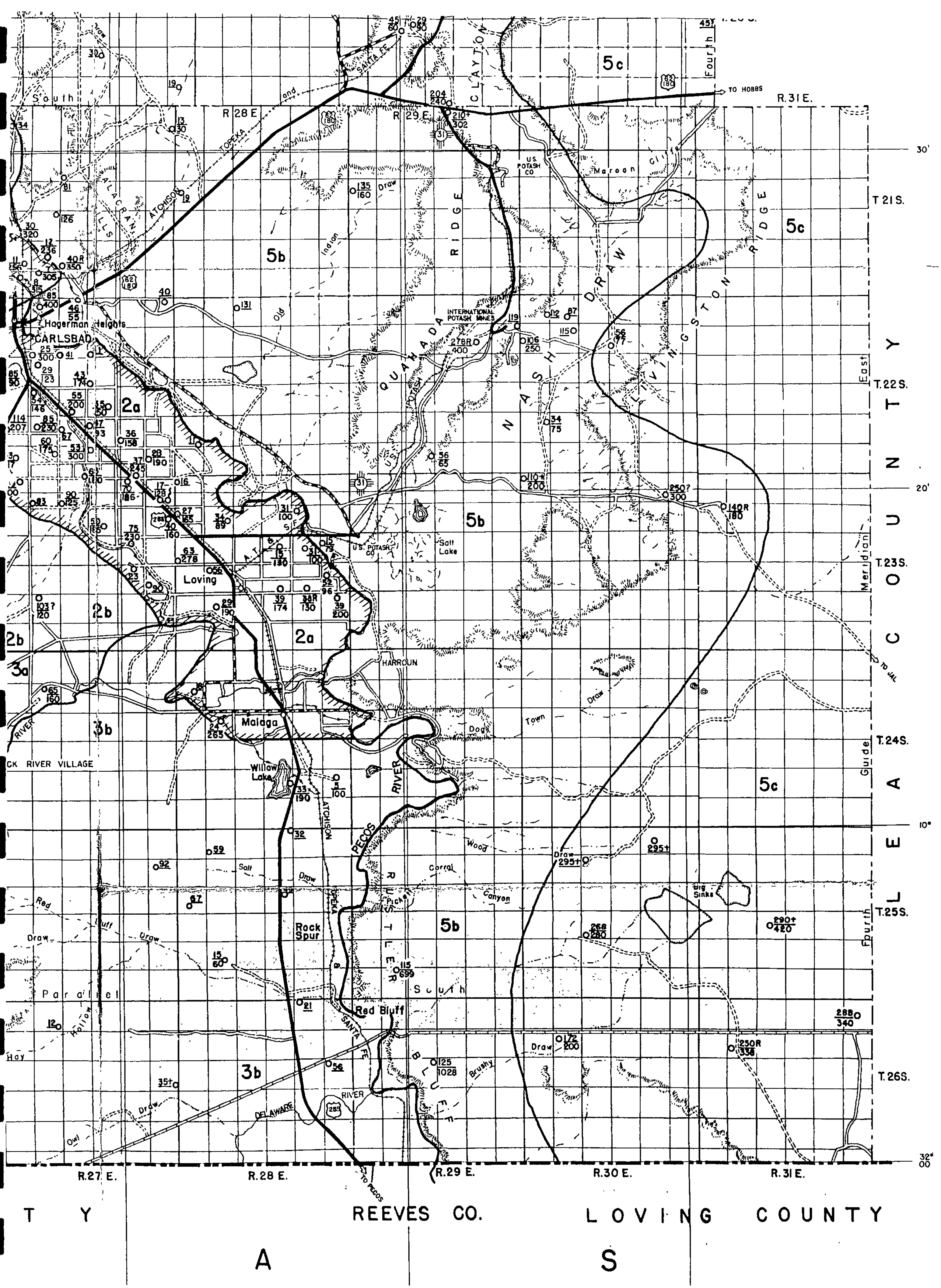
24 South 31 East

6	5	4	3	2 **192**	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South 32 East

6	5	4	3	2	1
7	8	9	10 **20**	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 **290**	34	35	36

88 New Mexico State Engineers Well Reports
105 USGS Well Reports
90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
Geology and Groundwater Resources of Eddy County, NM (Report 3)
34 NMOCD - Groundwater Data



5c
5b
5c
5b
2a
2b
2b
2a
3a
3b
5c
5b
3b
CARLSBAD
Hagerman Heights
Loving
Malaga
Willow Lake
HARROUN
Rock Spur
Red Bluff
U.S. POTASH CO
INTERNATIONAL POTASH MINES
Salt Lake
Big Sinks
TO HOBBS
TO JAL
TO PECOS
R.28 E
R.29 E
R.31 E.
R.27 E.
R.28 E.
R.29 E.
R.30 E.
R.31 E.
T.21 S.
T.22 S.
T.23 S.
T.24 S.
T.25 S.
T.26 S.
QUANAHADA RIDGE
CLAYTON RIDGE
NASH DRAW
LIVINGSTON RIDGE
PECOS RIVER
DELAWARE RIVER
RUSTLER BLUFF
Maroon Cliffs
ATCHISON TOPEKA AND SANTA FE
LEA COUNTY
REEVES CO.
LOVING COUNTY
T Y
A
S

TABLE 1. RECORDS OF WELLS IN EDDY COUNTY, NEW MEXICO. (Continued)

LOCATION NUMBER	OWNER OR NAME	DATE COMPLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
23.28.22.433	J. Joyce	–	Orchard Park Terrace	3,031	174	–	Alluvium	Quaternary
23.133	Donaldson	–	Hillside	3,020	–	–	do.	do.
23.433	S. F. Williams	–	East slope	3,008	130	16	do.	do.
24.134	B. Yarbro	–	do.	2,992	96	–	do.	do.
25.213	Ray Howard	–	do.	2,990	200	18	do.	do.
29.144	Kelly-Polk	–	Orchard Park Terrace	3,100	190	18	do.	do.
29.411	–	–	do.	3,101	–	14	do.	do.
23.30.2.440	James Bros.	–	E. trending spur	3,250	300	5	Redbeds	Dockum or Rustler
6.110	do.	–	Closed depression	3,000	200	12 (?)	do.	Rustler
6.420	Nash well	–	do.	2,980	–	–	Alluvium	Quaternary
21.122	Indian well	–	Valley	3,165	–	12	Redbeds	Rustler
23.31.7.220	James Headquarters	1900 (?)	Rolling	3,310	180	12	do.	Dockum

See explanation at beginning of table.

LOCATION NUMBER	WATER LEVEL: BELOW LAND SURFACE (feet)	WATER LEVEL: DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
23.28.22.433	38.5	Feb. 8, 1947	1,200	T	I	See analysis, Table 3.
23.133	52.4	Sept. 22, 1947	–	T	I	
23.433	38	–	1,100[1]	T	I	
24.134	52.3	Sept. 22, 1947	1,200	T	I	Depth to water measured while pumping. See analysis, Table 3.
25.213	39.1	Sept. 23, 1947	1,000 R.	T	I	Cased to 70 ft.
29.144	28.7	Sept. 25, 1947	–	N	N	Abandoned (?)
29.411	20.7	Jan. 13, 1948	–	N	I	
23.30.2.440	250.0	Dec. 22, 1948	–	W & G	S	See analysis, Table 3.
6.110	110.0	do.	–	W	S	
6.420	–	–	–	W	S	
21.122	–	–	3	W & G	S	See analysis, Table 3.
23.31.7.220	140	–	10 E.	W	S	Two wells here.

See explanation at beginning of table.
1 Measured Sept. 23, 1947.

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 23S Range: 31E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic ◉All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 11/12/2008

							(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
C	23S	31E	04				1	168	168	168
C	23S	31E	05				1	354	354	354
C	23S	31E	06				1	85	85	85

Record Count: 3

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 23S Range: 30E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic ◉All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 11/12/2008

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
C	23S	30E	34				1	440	440	440

Record Count: 1

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 24S Range: 31E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic ◉All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 11/12/2008

(Depth Water in Feet)

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
C	24S	31E	02				3	160	212	192

Record Count: 3

National Water Information System: Web Interface

USGS Water Resources

Data Category: Ground Water GO | Geographic Area: United States GO

News: Recent changes

Ground-water levels for the Nation

Search Results -- 1 sites found

Search Criteria

site_no list = • 321952103400801
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

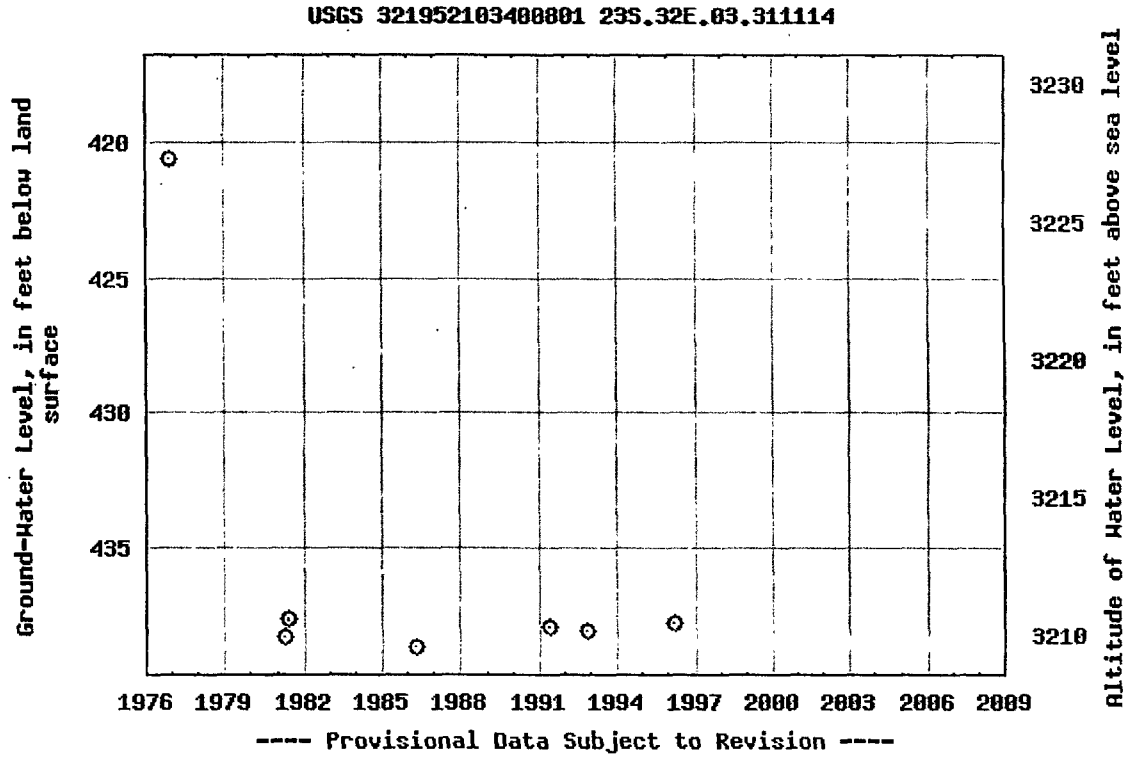
USGS 321952103400801 23S.32E.03.311114

Available data for this site Ground-water: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code
Latitude 32°20'00", Longitude 103° 40'14" NAD27
Land-surface elevation
3,648.00 feet above sea level
NGVD29
The depth of the well is 630 feet below land surface.
This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey

Title: Ground water for USA: Water Levels
URL: http://waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: NWISWeb Support Team
Page Last Modified: 2008-11-12 15:32:51 EST
4.22 1.99 nadww01

APPENDIX B
SUMMARY REPORT
October 9, 2007

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: October 9, 2007

Work Order: 7100338

Project Location: Eddy County, NM
Project Name: Pogo/Pure Gold Fed #19
Project Number: 3231

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138303	AH-1 0-1'	soil	2007-09-25	00:00	2007-10-03
138304	AH-1 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138305	AH-2 0-1'	soil	2007-09-25	00:00	2007-10-03
138306	AH-2 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138307	AH-3 0-1'	soil	2007-09-25	00:00	2007-10-03
138308	AH-3 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138309	AH-4 0-1'	soil	2007-09-25	00:00	2007-10-03
138310	AH-4 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138311	AH-5 0-1'	soil	2007-09-25	00:00	2007-10-03
138312	AH-5 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138313	AH-6 0-1'	soil	2007-09-25	00:00	2007-10-03
138314	AH-6 1-1.5'	soil	2007-09-25	00:00	2007-10-03

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
138303 - AH-1 0-1'	<0.0200	<0.0200	**0.0363**	**0.184**	**304**	**36.1**
138305 - AH-2 0-1'	<0 0100	<0.0100	<0.0100	**0.0296**	<50.0	**3.53**
138307 - AH-3 0-1'	<0.0100	<0.0100	<0.0100	**0.0335**	**95.3**	**5.10**
138309 - AH-4 0-1'					<50.0	**1.13**
138311 - AH-5 0-1'					**100**	**1.35**
138313 - AH-6 0-1'					<50.0	<1.00

Sample: 138303 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**4820**	mg/Kg	2.00

Sample: 138304 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**128**	mg/Kg	2.00

Sample: 138305 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138306 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138307 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**3320**	mg/Kg	2.00

Sample: 138308 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138309 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138310 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138311 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**1150**	mg/Kg	2.00

Sample: 138312 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138313 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 138314 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: October 9, 2007

Work Order: 7100338

Project Location: Eddy County, NM
Project Name: Pogo/Pure Gold Fed #19
Project Number: 3231

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
138303	AH-1 0-1'	soil	2007-09-25	00:00	2007-10-03
138304	AH-1 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138305	AH-2 0-1'	soil	2007-09-25	00:00	2007-10-03
138306	AH-2 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138307	AH-3 0-1'	soil	2007-09-25	00:00	2007-10-03
138308	AH-3 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138309	AH-4 0-1'	soil	2007-09-25	00:00	2007-10-03
138310	AH-4 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138311	AH-5 0-1'	soil	2007-09-25	00:00	2007-10-03
138312	AH-5 1-1.5'	soil	2007-09-25	00:00	2007-10-03
138313	AH-6 0-1'	soil	2007-09-25	00:00	2007-10-03
138314	AH-6 1-1.5'	soil	2007-09-25	00:00	2007-10-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank

Analytical Report

Sample: 138303 - AH-1 0-1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	41788	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0200		mg/Kg	2	0.0100
Toluene		<0.0200		mg/Kg	2	0.0100
Ethylbenzene		**0.0363**		mg/Kg	2	0.0100
Xylene		**0.184**		mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.84	mg/Kg	2	2.00	92	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	2	2.00	91	47.3 - 144.2

Sample: 138303 - AH-1 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**4820**		mg/Kg	50	2.00

Sample: 138303 - AH-1 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**304**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		180	mg/Kg	1	150	120	17.3 - 169.6

Sample: 138303 - AH-1 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**36.1**		mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.30	mg/Kg	2	2.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		2.46	mg/Kg	2	2.00	123	50.8 - 131.6

Sample: 138304 - AH-1 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**128**		mg/Kg	50	2.00

Sample: 138305 - AH-2 0-1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	41788	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		**0.0296**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.940	mg/Kg	1	1.00	94	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.871	mg/Kg	1	1.00	87	47.3 - 144.2

Sample: 138305 - AH-2 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 138305 - AH-2 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		228	mg/Kg	1	150	152	17.3 - 169.6

Sample: 138305 - AH-2 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**3.53**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.647	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.887	mg/Kg	1	1.00	89	50.8 - 131.6

Sample: 138306 - AH-2 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 138307 - AH-3 0-1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	41788	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100

continued ...

sample 138307 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		**0.0335**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.945	mg/Kg	1	1.00	94	39.6 - 116
4-Bromofluorobenzene (4-BFB)		0.863	mg/Kg	1	1.00	86	47.3 - 144.2

Sample: 138307 - AH-3 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**3320**	mg/Kg	50	2.00

Sample: 138307 - AH-3 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO	B	**95.3**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		198	mg/Kg	1	150	132	17.3 - 169.6

Sample: 138307 - AH-3 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.10**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.628	mg/Kg	1	1.00	63	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	50.8 - 131.6

Sample: 138308 - AH-3 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 138309 - AH-4 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41873	Date Analyzed:	2007-10-08	Analyzed By:	AR
Prep Batch:	36167	Sample Preparation:		Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<100		mg/Kg	50	2.00

Sample: 138309 - AH-4 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41768	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		192	mg/Kg	1	150	128	17.3 - 169.6

Sample: 138309 - AH-4 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**1.13**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.644	mg/Kg	1	1.00	64	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.890	mg/Kg	1	1.00	89	50.8 - 131.6

Sample: 138310 - AH-4 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138311 - AH-5 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1150**	mg/Kg	50	2.00

Sample: 138311 - AH-5 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO	*B*	**100**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		200	mg/Kg	1	150	133	17.3 - 169.6

Sample: 138311 - AH-5 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.35**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.646	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	1	1.00	94	50.8 - 131.6

Sample: 138312 - AH-5 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138313 - AH-6 0-1'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 138313 - AH-6 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		160	mg/Kg	1	150	107	17.3 - 169.6

Sample: 138313 - AH-6 0-1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41802	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	Sample Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.647	mg/Kg	1	1.00	65	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		0.890	mg/Kg	1	1.00	89	50.8 - 131.6

Sample: 138314 - AH-6 1-1.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	41874	Date Analyzed:	2007-10-09	Analyzed By:	AR
Prep Batch:	36168	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Method Blank (1) QC Batch: 41767

QC Batch:	41767	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	QC Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		18.9	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		170	mg/Kg	1	150	113	32.9 - 156.1

Method Blank (1) QC Batch: 41768

QC Batch:	41768	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36070	QC Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		144	mg/Kg	1	150	96	32.9 - 156.1

Method Blank (1) QC Batch: 41788

QC Batch:	41788	Date Analyzed:	2007-10-04	Analyzed By:	
Prep Batch:	36088	QC Preparation:	2007-10-04	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.868	mg/Kg	1	1.00	87	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.587	mg/Kg	1	1.00	59	53.1 - 111.6

Method Blank (1) QC Batch: 41802

QC Batch: 41802 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36088 QC Preparation: 2007-10-04 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.706	mg/Kg	1	1.00	71	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.566	mg/Kg	1	1.00	57	55.4 - 111.8

Method Blank (1) QC Batch: 41873

QC Batch: 41873 Date Analyzed: 2007-10-08 Analyzed By: AR
Prep Batch: 36167 QC Preparation: 2007-10-08 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 41874

QC Batch: 41874 Date Analyzed: 2007-10-09 Analyzed By: AR
Prep Batch: 36168 QC Preparation: 2007-10-09 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 41767 Date Analyzed: 2007-10-04 Analyzed By:
Prep Batch: 36070 QC Preparation: 2007-10-04 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	345	mg/Kg	1	250	<13.4	138	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	349	mg/Kg	1	250	<13.4	140	49.1 - 142.3	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	163	175	mg/Kg	1	150	109	117	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41768 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36070 | QC Preparation: 2007-10-04 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	261	mg/Kg	1	250	<13.4	104	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	286	mg/Kg	1	250	<13.4	114	49.1 - 142.3	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	156	163	mg/Kg	1	150	104	109	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41788 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36088 | QC Preparation: 2007-10-04 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.928	mg/Kg	1	1.00	<0.00110	93	71.2 - 119
Toluene	0.934	mg/Kg	1	1.00	<0.00150	93	76.3 - 116.5
Ethylbenzene	0.949	mg/Kg	1	1.00	<0.00160	95	77.6 - 114
Xylene	2.85	mg/Kg	1	3.00	<0.00410	95	78.8 - 113.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.885	mg/Kg	1	1.00	<0.00110	88	71.2 - 119	5	20
Toluene	0.910	mg/Kg	1	1.00	<0.00150	91	76.3 - 116.5	3	20
Ethylbenzene	0.914	mg/Kg	1	1.00	<0.00160	91	77.6 - 114	4	20
Xylene	2.76	mg/Kg	1	3.00	<0.00410	92	78.8 - 113.9	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.812	0.809	mg/Kg	1	1.00	81	81	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.766	0.752	mg/Kg	1	1.00	77	75	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 41802 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36088 | QC Preparation: 2007-10-04 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	.7.16	mg/Kg	1	10.0	<0.739	72	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.31	mg/Kg	1	10.0	<0.739	73	56 - 105.2	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.876	0.880	mg/Kg	1	1.00	88	88	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.770	0.784	mg/Kg	1	1.00	77	78	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 41873 | Date Analyzed: 2007-10-08 | Analyzed By: AR
Prep Batch: 36167 | QC Preparation: 2007-10-08 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.7	mg/Kg	1	100	<0.500	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	98.7	mg/Kg	1	100	<0.500	99	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 41874 | Date Analyzed: 2007-10-09 | Analyzed By: AR
Prep Batch: 36168 | QC Preparation: 2007-10-09 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<0.500	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.6	mg/Kg	1	100	<0.500	100	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 138305

QC Batch: 41767 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36070 | QC Preparation: 2007-10-04 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	298	mg/Kg	1	250	<13.4	119	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	260	mg/Kg	1	250	<13.4	104	30.2 - 201.4	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	166	180	mg/Kg	1	150	111	120	10 - 194

Matrix Spike (MS-1) Spiked Sample: 138309

QC Batch: 41768 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36070 | QC Preparation: 2007-10-04 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	229	mg/Kg	1	250	<13.4	92	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	191	mg/Kg	1	250	<13.4	76	30.2 - 201.4	18	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	199	180	mg/Kg	1	150	133	120	10 - 194

Matrix Spike (MS-1) Spiked Sample: 138467

QC Batch: 41788 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36088 | QC Preparation: 2007-10-04 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	5.03	mg/Kg	5	5.00	0.1905	97	65.7 - 119.1
Toluene	4.80	mg/Kg	5	5.00	0.0087	96	47.7 - 153.8
Ethylbenzene	7.86	mg/Kg	5	5.00	2.1707	114	73.5 - 126.3
Xylene	23.7	mg/Kg	5	15.0	6.6022	114	73.6 - 125.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	4.38	mg/Kg	5	5.00	0.1905	84	65.7 - 119.1	14	20
Toluene	4.02	mg/Kg	5	5.00	0.0087	80	47.7 - 153.8	18	20
Ethylbenzene	6.95	mg/Kg	5	5.00	2.1707	96	73.5 - 126.3	12	20
Xylene	21.0	mg/Kg	5	15.0	6.6022	96	73.6 - 125.9	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	3.62	3.66	mg/Kg	5	5	72	73	51 - 109.6
4-Bromofluorobenzene (4-BFB) [1,2]	6.63	7.25	mg/Kg	5	5	133	145	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 138305

QC Batch: 41802 | Date Analyzed: 2007-10-04 | Analyzed By:
Prep Batch: 36088 | QC Preparation: 2007-10-04 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	6.68	mg/Kg	1	10.0	3.5312	31	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6.30	mg/Kg	1	10.0	3.5312	28	10 - 102.2	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.566	0.563	mg/Kg	1	1	57	56	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	0.903	0.877	mg/Kg	1	1	90	88	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 138309

QC Batch: 41873 | Date Analyzed: 2007-10-08 | Analyzed By: AR
Prep Batch: 36167 | QC Preparation: 2007-10-08 | Prepared By: AR

continued ...

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5040	mg/Kg	50	5000	<25.0	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5080	mg/Kg	50	5000	<25.0	102	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 138319

QC Batch: 41874 | Date Analyzed: 2007-10-09 | Analyzed By: AR
Prep Batch: 36168 | QC Preparation: 2007-10-09 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	24000	mg/Kg	50	5000	18595	108	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	24000	mg/Kg	50	5000	18595	108	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 41767 | Date Analyzed: 2007-10-04 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41767 | Date Analyzed: 2007-10-04 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	256	102	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41768 | Date Analyzed: 2007-10-04 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41768 Date Analyzed: 2007-10-04 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41788 Date Analyzed: 2007-10-04 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0930	93	85 - 115	2007-10-04
Toluene		mg/Kg	0.100	0.0949	95	85 - 115	2007-10-04
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-10-04
Xylene		mg/Kg	0.300	0.291	97	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41788 Date Analyzed: 2007-10-04 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0861	86	85 - 115	2007-10-04
Toluene		mg/Kg	0.100	0.0884	88	85 - 115	2007-10-04
Ethylbenzene		mg/Kg	0.100	0.0873	87	85 - 115	2007-10-04
Xylene		mg/Kg	0.300	0.264	88	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41802 Date Analyzed: 2007-10-04 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.906	91	85 - 115	2007-10-04

Standard (CCV-1)

QC Batch: 41802 Date Analyzed: 2007-10-04 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.07	107	85 - 115	2007-10-04

Standard (ICV-1)

QC Batch: 41873 Date Analyzed: 2007-10-08 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-10-08

Standard (CCV-1)

QC Batch: 41873 Date Analyzed: 2007-10-08 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2007-10-08

Standard (ICV-1)

QC Batch: 41874 Date Analyzed: 2007-10-09 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2007-10-09

Standard (CCV-1)

QC Batch: 41874 Date Analyzed: 2007-10-09 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-10-09

work order: 7100338

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

PAGE: 1 OF: 2

CLIENT NAME: Pogo Producing Co. SITE MANAGER: K. Tavarez

PROJECT NO.: 3231 PROJECT NAME: Pogo / Pure Gold Fed #19

Eddy Co. NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
138303	9/25/07		S		✓	AH-1 0-1	1				✓	
304			S		✓	AH-1 1-1.5'	1				✓	
305			S		✓	AH-2 0-1	1				✓	
306			S		✓	AH-2 1-1.5'	1				✓	
307			S		✓	AH-3 0-1	1				✓	
308			S		✓	AH-3 1-1.5'	1				✓	
309			S		✓	AH-4 0-1	1				✓	
310			S		✓	AH-4 1-1.5'	1				✓	
311			S		✓	AH-5 0-1	1				✓	
312			S		✓	AH-5 1-1.5'	1				✓	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8020/602	MTBE 8020/602	TPH 8015 MOD. TX1005	418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
		X												X			
														X			
		X												X			
														X			
		X												X			
														X			
		X												X			
														X			
		X												X			
														X			

RELINQUISHED BY: (Signature) Date: 10-3-07 Time: 2:00 RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time: RECEIVED BY: (Signature) Date: Time:

RELINQUISHED BY: (Signature) Date: Time: RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: Trace RECEIVED BY: (Signature)

ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE: DATE: 10.2.07 TIME: 14:00

HIGHLANDER CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2.5°C intact

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS: Run (3) BTEX, select 3 w/ highest TPH. If TPH exceeds 5,000 mg/kg run deeper depth.

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Work order: 7100338

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(432) 682-4559 Fax (432) 682-3946

PAGE: 2 OF: 2

CLIENT NAME: Pogo Producing Co. SITE MANAGER: IKE Tavarez

PROJECT NO.: 3231 PROJECT NAME: Pogo/Pure Gold Fed #19 Eddy Co. NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 / 8015 Mod. / TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
313	9-25-07		S		G	AH-6 (0-1)	1				✓				X											X			
314	9-25-07		S		G	AH-6 (1-1.5')	1				✓															X			

RELINQUISHED BY: (Signature)	Date: 10-3-07 Time: 2:00	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RECEIVING LABORATORY: Pace	RECEIVED BY: (Signature)	DATE: 10-3-07	TIME: 14:00

SAMPLED BY: (Print & Sign) Date: Time:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

HIGHLANDER CONTACT PERSON:

Results by:

RUSH Charges Authorized: Yes No

ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

SAMPLE CONDITION WHEN RECEIVED: 2.5°C intact

MATRIX: W—Water A—Air SD—Solid S—Soil SL—Sludge O—Other

REMARKS:

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Enviromental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

APPENDIX C
NMOCD FORM C-141

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

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

Form C-141
Revised October 10, 2003

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 Pogo Producing Company	Contact Patrick Ellis
Address P.O. Box 10340 Midland, Tx 79702	Telephone No. (432) 685-8148
Facility Name Pure Gold B Federal #19	Facility Type Flow line

Surface Owner	Mineral Owner	Lease No. NM-38463

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	20	23S	31E	645	North	2310	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced fluid	Volume of Release 8 BBLS	Volume Recovered 0
Source of Release Flow line release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? 9-23-07 10:00 AM Jim Amos BLM	
By Whom? Patrick Ellis	Date and Hour 9-24-07 1:00 pm	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

None

Describe Cause of Problem and Remedial Action Taken.*

Restriction in flow line created high line pressure causing flowline to leak. Well was shut-in. There was no free standing product. Highlander Environmental was called to take soil samples.

Describe Area Affected and Cleanup Action Taken.*

Upon evaluation of soil samples, A workplan will be submitted. Area Affected was small area adjacent to Highway 128.

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: Patrick L. Ellis	OIL CONSERVATION DIVISION
Printed Name: Patrick L. Ellis	Approved by District Supervisor:
Title: EH&S Supervisor	Approval Date: / Expiration Date:
E-mail Address: ellispl@pogoproducing.com	Conditions of Approval: / Attached ☐
Date: 9-24-07 Phone: (432) 685-8148	

* Attach Additional Sheets If Necessary

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

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

SEP 28 2007
OCD-

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

30-015-35312

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company Pogo Producing Company	Contact Patrick Ellis
Address P.O. Box 10340 Midland, Tx 79702	Telephone No. (432) 685-8148
Facility Name Pure Gold B Federal #19	Facility Type Flow line

Surface Owner	Mineral Owner	Lease No. NM-38463

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	20	23S	31E	645	North	2310	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced fluid	Volume of Release 8 BBLS	Volume Recovered 0
Source of Release Flowline release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? 9-23-07 10:00 AM Jim Amos BLM	
By Whom? Patrick Ellis	Date and Hour 9-24-07 1:00 pm	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

None

Describe Cause of Problem and Remedial Action Taken.*

Restriction in flowline created high line pressure causing flowline to leak. Well was shut-in. There was no free standing product. Highlander Environmental was called to take soil samples.

Describe Area Affected and Cleanup Action Taken.*

Upon evaluation of soil samples, a workplan will be submitted. Area Affected was small area adjacent to Highway 128.

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: Patrick L. Ellis	OIL CONSERVATION DIVISION
Printed Name: Patrick L. Ellis	Approved by District Supervisor: for Denny Foust
Title: EH&S Supervisor	Approval Date: OCT 2 2007 Expiration Date:
E-mail Address: ellispe@pogoproducing.com	Conditions of Approval: See Attached Attached ☒
Date: 9-24-07 Phone: (432) 685-8148	

* Attach Additional Sheets If Necessary

Guye, Gerry, EMNRD

From: Guye, Gerry, EMNRD
Sent: Tuesday, October 02, 2007 11:46 AM
To: 'ellisp@pogoproducing.com'
Subject: C-141 (Pure Gold B Federal #8 and #19

This office is in receipt of your C-141 on the oil and produced water release, at this facility.

NMOCD Rule 19.15.3.116 states in part ..."The responsible person must complete division approved corrective action for releases which endanger public health or the environment. Releases will be addressed in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with Section 19 of 19.15.1 NMAC."

Information and tools for proper corrective action may be found in the Environmental Handbook on our web site www.emnrd.state.nm.us/ocd under the heading publications.

Remediation requirements may be subject to other federal, state and local laws or regulations.

Within 30 days, on or before October 24, 2007, completion of a remediation plan should be finalized and a report summarizing all actions taken to mitigate environmental damage related to the leak, spill or release will be provided to OCD for approval.

Please be advised that NMOCD acceptance and/or approval of documents or work plans 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 and/or approval of documents or work plans do not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I may be of further service or if you have any questions please feel free to contact me.

Gerry Guye
Deputy Field Inspector
NMOCD - Artesia
Office (505)748-1283x105
Mobile (505)626-0843
E-Mail: gerry.guye@state.nm.us