



# Highlander Environmental Corp.

Midland, Texas

July 16, 2007

Mr. Larry Johnson  
Environmental Engineer Specialist  
Oil Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

① WHAT IS RPT# 71347  
② WHAT IS SITE RANKING 70  
③ WHERE IS CONTAMINATED SOIL?  
168 cu. yd to CRI

**Re: Assessment and Closure Report for the Pogo Producing Company, CM #2 Tank Battery Release Located in Unit B, Section 2, Township 18 South, Range 33 East, Lea County, New Mexico.**

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill from the CM #2 Tank Battery, located in Unit B, Section 2, Township 18 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are N 32° 46' 54.2", W 103° 37' 50.8". According to the State of New Mexico C-141 Initial Report, approximately 80 barrels (bbls) of oil/produced water were released due to an oil/water dump plug failure at the tank battery which occurred on May 10, 2007. Of the 80 bbls released, an undetermined amount of bbls were recovered. The State of New Mexico C-141 (Initial and Final) are included in Appendix C. The Site is shown on Figure 1 and 2.

## Groundwater and Regulatory

The New Mexico State Engineer's Office database showed no water wells located within Section 2, Township 18 South, Range 33 East. However, one well was located in Section 35, Township 17 South, Range 33 East with a reported depth to water of 155 feet below ground surface (bgs). The New Mexico State Engineer water well report is 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 (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

In May 2007, Pogo Producing had a local dirt contractor remove approximately the first 6 inches of soil in the spill area which is located to the east of the tank battery and well pad. The soils were scrapped and stockpiled on the adjacent well pad.

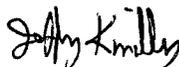
On May 23, 2007, Highlander personnel inspected and sampled the spill area. The spill area fingered out and measured approximately 45' x 135', 25' x 150' and 70' x 70'. A total of eight (8) auger holes (AH-1 through AH-8) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Of the samples collected, all of the TPH and BTEX concentrations were below the RRAL. The chloride concentrations ranged from 13.4 mg/kg (AH-8 at 0-0.5') to 882 mg/kg (AH-4 at 0-0.5'). With the depth to groundwater at greater than 100 feet bgs and maximum chloride levels in the soil of 882 mg/kg, it is unlikely the remaining chlorides will leach into the surrounding groundwater. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 3. The results of the sampling are summarized in Table 1.

### Conclusions

The impacted area was confined to 45' x 135', 25' x 150', and 70' x 70' areas to the east of the tank battery and well pad. The first six inches of soil were scraped and stockpiled on the well pad. No remaining TPH or BTEX concentrations currently exceed the RRAL. Although not resampled, chloride residuals may remain at 0.5 feet bgs at AH-4 and AH-5. However, based on the depth to groundwater and the results of the assessment, the residual chloride concentrations do not appear to be an imminent threat to groundwater.

Based upon the results of the assessment work performed at this site, Pogo requests closure of this Site. 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,  
Highlander Environmental Corp.

  
Jeffrey Kindley, P.G.  
Senior Environmental Geologist

cc: Pat Ellis – Pogo Producing Company  
Don Riggs – Pogo Producing Company

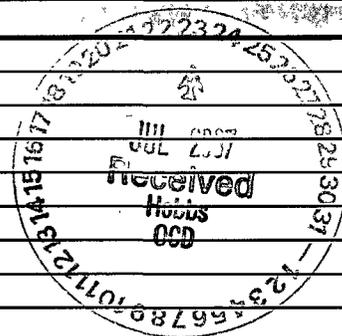


## SITE INFORMATION

### Report Type: CLOSURE REPORT

**General Site Information:**

Site:	CM #2 Tank Battery Release
Company:	Pogo Producing Company
Well Location:	Section 2, T18S R33E
Spill Location:	Section 2, T18S R33E
Unit Letter:	Unit B
Lease Number:	
County:	Lea
Spill GPS:	32° 46' 54.2", 103° 37' 50.8"
Surface Owner:	State of New Mexico
Mineral Owner:	State of New Mexico
Directions:	From the intersection of Hwy 62 (180) and 529 head west on 529 for 17.8 miles then turn right onto dirt road and head for 0.6 miles to dirt road. Turn right on dirt road for 0.6 miles to curve in road then turn left on next dirt road. Travel down road for 0.5 miles to site. Site is on the right hand side of road.


**Release Data:**

Date Released:	5/10/2007
Type Release:	Oil and water
Source of Contamination:	Tank Battery
Fluid Released:	Oil/water dump plug failure
Fluids Recovered:	Unknown

**Official Communication:**

Name:	Pat Ellis	Don Riggs	Ike Tavarez
Company:	Pogo Producing Company	Pogo Producing Company	Highlander Environmental Corp.
Address:	300 N. Marienfeld St.	5 Greenway Plaza, Suite 2700	1910 N. Big Spring
P.O. Box	Box 10340		
City:	Midland Texas, 79701-7340	Houston, Texas 77046	Midland, Texas
Phone number:	(432) 685-8100	(713) 297-5045	(432) 692- 4559
Email:	EllisP@pogoproducing.com	riggsd@pogoproducing.com	itavarez@hec-enviro.com

**Ranking Criteria**

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	Average Depth >100 BS
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	None
Water Source >1,000 ft., Private >200 ft.	0	
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	None
200 ft - 1,000 ft.	10	None
>1,000 ft.	0	
<b>Total Ranking Score:</b>	<b>0</b>	
<b>Acceptable Soil RRAL (mg/kg)</b>		
Benzene	Total BTEX	TPH
10	50	5,000

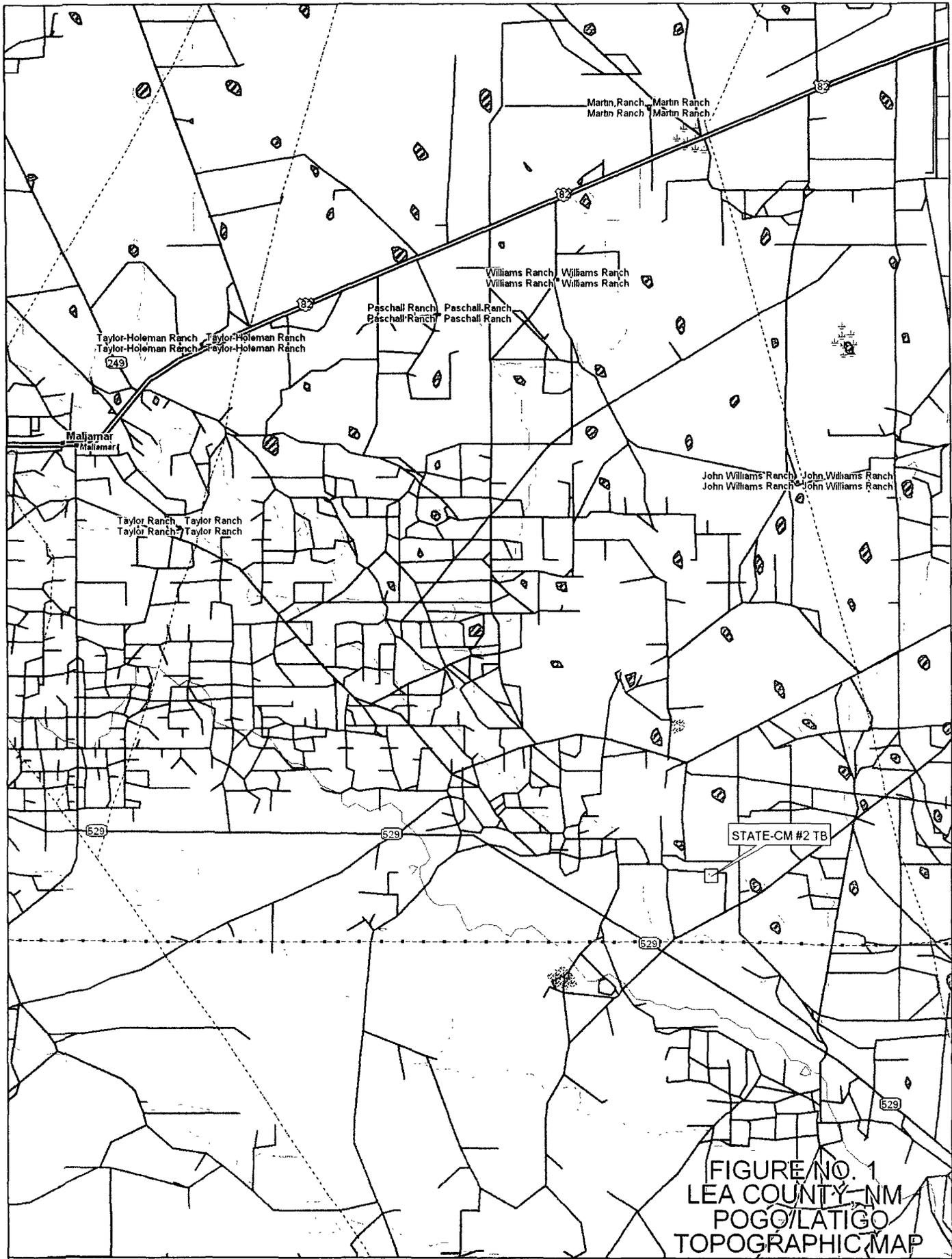


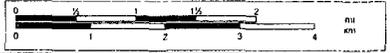
FIGURE NO. 1  
LEA COUNTY, NM  
POGO/LATIGO  
TOPOGRAPHIC MAP



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Scale 1 : 100,000  
1" = 1.58 mi



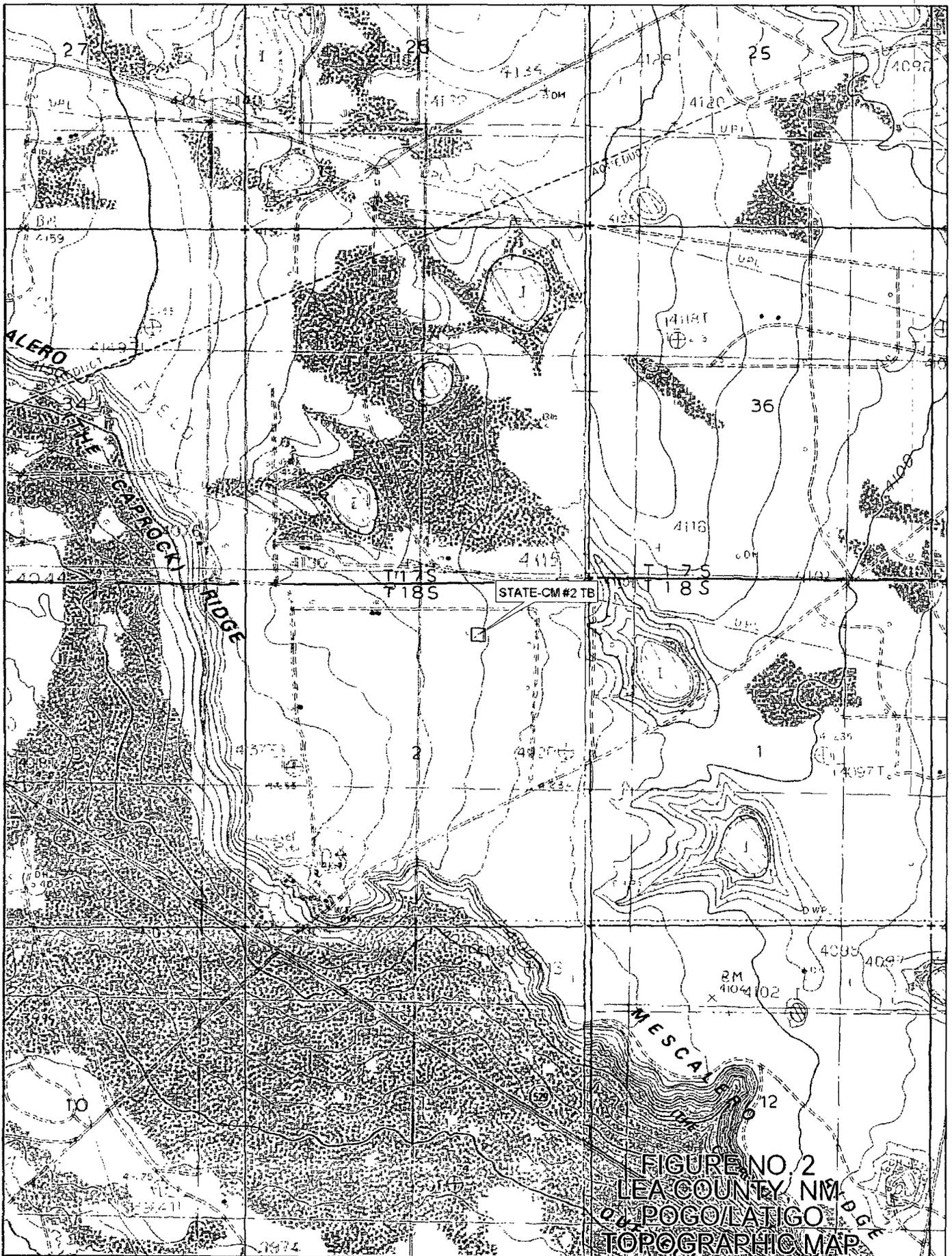


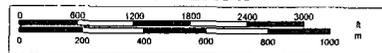
FIGURE NO. 2  
LEA COUNTY, NM  
POCO/LATIGO  
TOPOGRAPHIC MAP

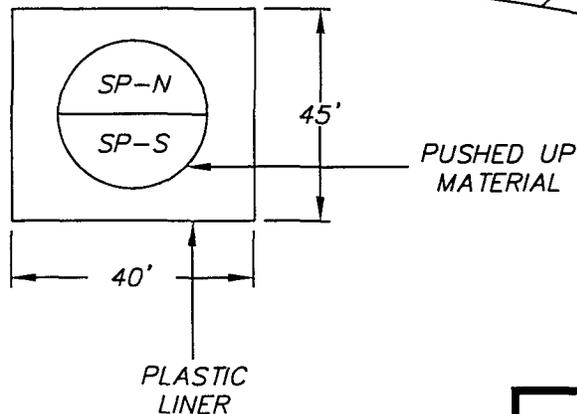
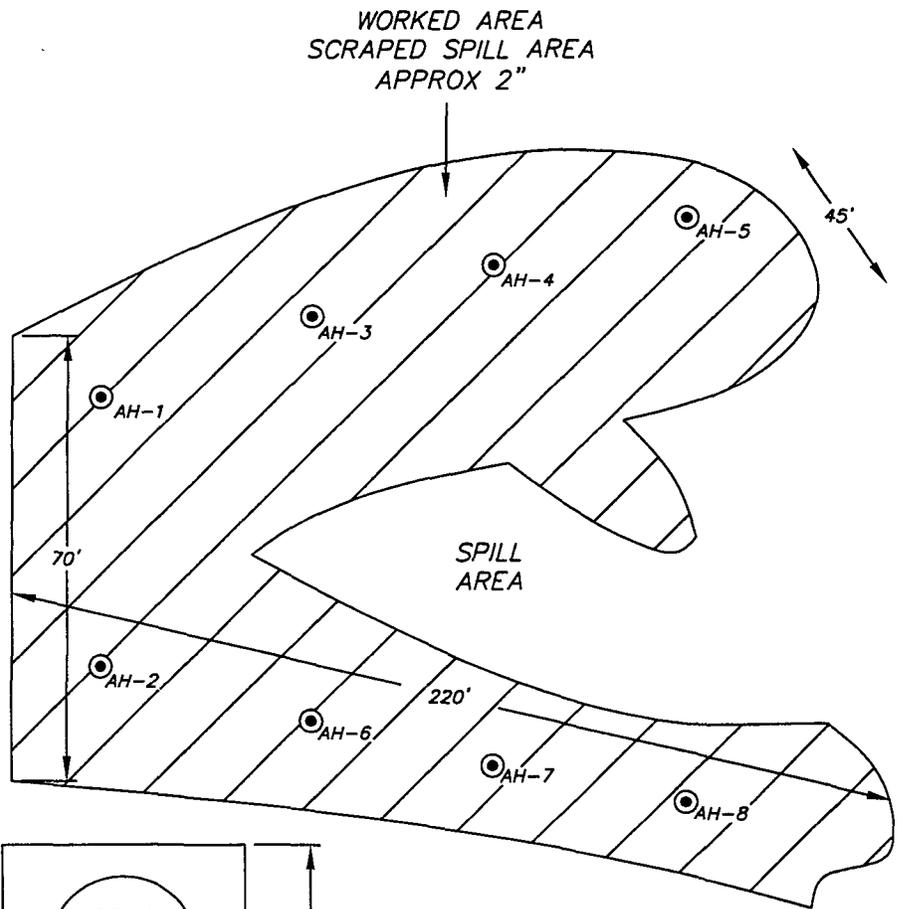
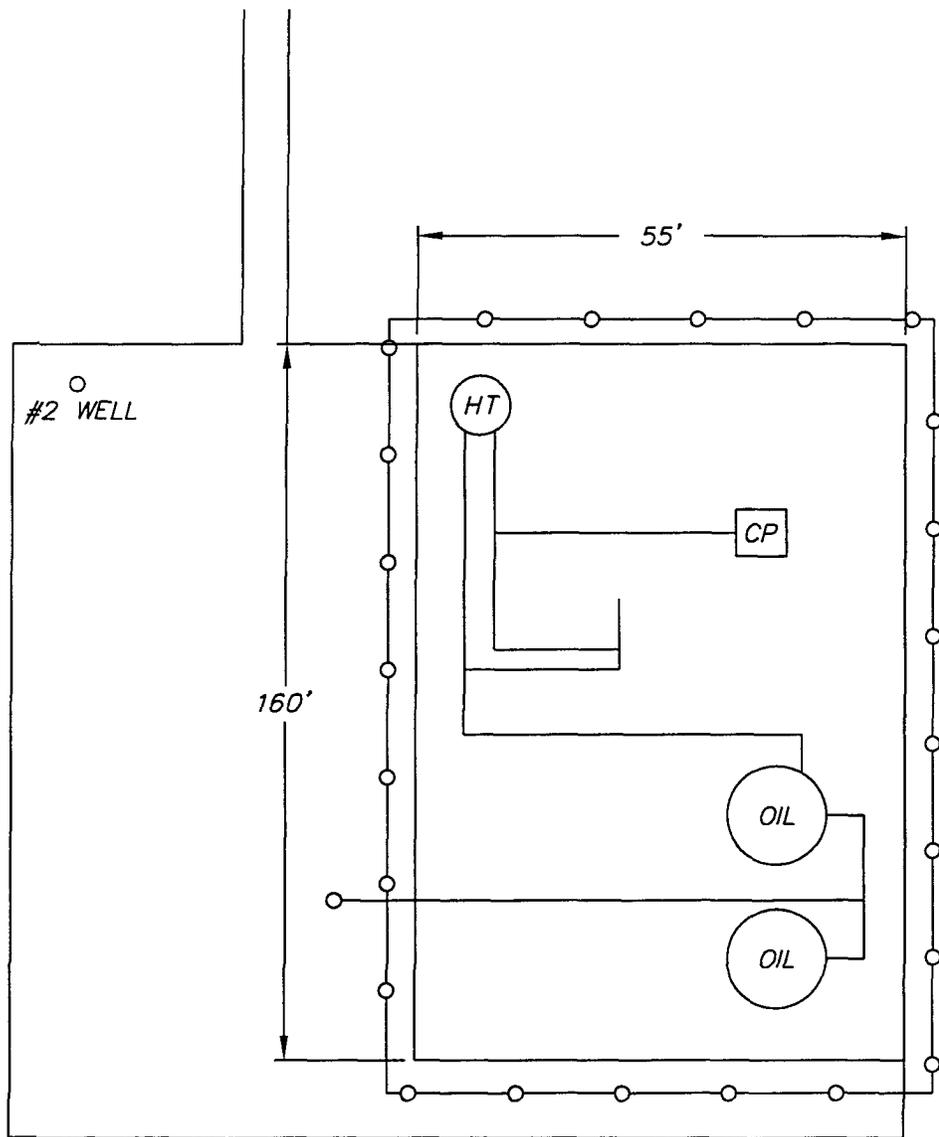


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Scale 1 : 24,000  
1" = 2000 ft





**FIGURE NO. 3**

LEA COUNTY, NEW MEXICO

POGO / LATIGO  
STATE - CM #2 TB

HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE:  
6/12/07  
DWN. BY:  
RC  
FILE:  
C:\POGO\ 3020

**Pogo Producing  
State CM #2 TB  
Lea County, New Mexico**

Sample ID	Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			GRO	DRO	Total					
AH-1	05/23/07	0-0.5'	290	2,250	2,540	<0.05	0.385	<0.05	9.29	306
AH-2	05/23/07	0-0.5'	1,150	1,570	2,720	-	-	-	-	56.9
AH-3	05/23/07	0-0.5'	6.30	<50.0	6	-	-	-	-	63.7
AH-4	05/23/07	0-0.5'	95.2	587	682.2	<0.05	<0.05	<0.05	<0.05	(882)
AH-5	05/23/07	0-0.5'	145	766	911	-	-	-	-	804
AH-6	05/23/07	0-0.5'	4.51	<50.0	4.51	-	-	-	-	88.3
AH-7	05/23/07	0-0.5'	573	2,240	2813	<0.20	6.22	10.6	16.9	669
AH-8	05/23/07	0-0.5'	2.76	<50.0	2.76	-	-	-	-	13.4

(-) Not Analyzed      Area highlighted in yellow inidated analysis above RRAL

*NEED COLUMN TO  
SHOW DISPOSITION OF SOLC*



# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
 6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260  
 E-Mail lab@traceanalysis.com

## Analytical and Quality Control Report

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

Report Date: May 31, 2007

Work Order: 7052414



Project Location: Lea County, NM  
 Project Name: POGO-State CM #2 TB  
 Project Number: 3020

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
125238	AH-1 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125239	AH-2 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125240	AH-3 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125241	AH-4 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125242	AH-5 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125243	AH-6 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125244	AH-7 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125245	AH-8 (0-0.5')	soil	2007-05-23	00:00	2007-05-24
125246	Stockpile North	soil	2007-05-23	00:00	2007-05-24
125247	Stockpile South	soil	2007-05-23	00:00	2007-05-24

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.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Biar Leftwich, Director

### Standard Flags

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

## Case Narrative

Samples for project POGO-State CM #2 TB were received by TraceAnalysis, Inc. on 2007-05-24 and assigned to work order 7052414. Samples for work order 7052414 were received intact without headspace and at a temperature of 4 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7052414 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

## Analytical Report

**Sample: 125238 - AH-1 (0-0.5')**

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 37595	Date Analyzed: 2007-05-28	Analyzed By: AG
Prep Batch: 32578	Sample Preparation: 2007-05-27	Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		<b>0.385</b>	mg/Kg	5	0.0100
Ethylbenzene		<0.0500	mg/Kg	5	0.0100
Xylene		<b>9.29</b>	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.23	mg/Kg	5	5.00	45	26 - 117.8
4-Bromofluorobenzene (4-BFB)	1	7.18	mg/Kg	5	5.00	144	51.1 - 119.1

**Sample: 125238 - AH-1 (0-0.5')**

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 37509	Date Analyzed: 2007-05-24	Analyzed By: AR
Prep Batch: 32522	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<b>306</b>	mg/Kg	10	1.00

**Sample: 125238 - AH-1 (0-0.5')**

Analysis: TPH DRO	Analytical Method: Mod 8015B	Prep Method: N/A
QC Batch: 37504	Date Analyzed: 2007-05-24	Analyzed By: AG
Prep Batch: 32522	Sample Preparation: 2007-05-24	Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<b>2250</b>	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		292	mg/Kg	1	150	195	32.9 - 167

**Sample: 125238 - AH-1 (0-0.5')**

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 37596	Date Analyzed: 2007-05-28	Analyzed By: AG
Prep Batch: 32578	Sample Preparation: 2007-05-27	Prepared By: AG

<sup>1</sup>High surrogate recovery due to peak interference  
<sup>2</sup>High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		290	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	<sup>3</sup>	1.98	mg/Kg	5	5.00	40	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	<sup>4</sup>	16.2	mg/Kg	5	5.00	324	67.5 - 140.3

**Sample: 125239 - AH-2 (0-0.5')**

Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 37509      Date Analyzed: 2007-05-24      Analyzed By: AR  
 Prep Batch: 32522      Sample Preparation:      Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		56.9	mg/Kg	5	1.00

**Sample: 125239 - AH-2 (0-0.5')**

Analysis: TPH DRO      Analytical Method: Mod 8015B      Prep Method: N/A  
 QC Batch: 37504      Date Analyzed: 2007-05-24      Analyzed By: AG  
 Prep Batch: 32522      Sample Preparation: 2007-05-24      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1570	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>5</sup>	260	mg/Kg	1	150	173	32.9 - 167

**Sample: 125239 - AH-2 (0-0.5')**

Analysis: TPH GRO      Analytical Method: S 8015B      Prep Method: S 5035  
 QC Batch: 37689      Date Analyzed: 2007-05-30      Analyzed By: AG  
 Prep Batch: 32656      Sample Preparation: 2007-05-30      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1150	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		41.7	mg/Kg	50	50.0	83	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		69.6	mg/Kg	50	50.0	139	67.5 - 140.3

<sup>3</sup>Surrogate out due to peak interference

<sup>4</sup>High surrogate recovery due to peak interference

<sup>5</sup>High surrogate recovery due to peak interference

**Sample: 125240 - AH-3 (0-0.5')**

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 37509	Date Analyzed: 2007-05-24	Analyzed By: AR
Prep Batch: 32526	Sample Preparation:	Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		63.7	mg/Kg	5	1.00

**Sample: 125240 - AH-3 (0-0.5')**

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 37504	Date Analyzed: 2007-05-24	Analyzed By: AG
Prep Batch: 32522	Sample Preparation: 2007-05-24	Prepared By: AG

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		238	mg/Kg	1	150	159	32.9 - 167

**Sample: 125240 - AH-3 (0-0.5')**

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 37596	Date Analyzed: 2007-05-28	Analyzed By: AG
Prep Batch: 32578	Sample Preparation: 2007-05-27	Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		6.36	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	6	0.472	mg/Kg	1	1.00	47	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	7	1.80	mg/Kg	1	1.00	180	67.5 - 140.3

**Sample: 125241 - AH-4 (0-0.5')**

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 37595	Date Analyzed: 2007-05-28	Analyzed By: AG
Prep Batch: 32578	Sample Preparation: 2007-05-27	Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	8	<0.0500	mg/Kg	5	0.0100
Toluene		<0.0500	mg/Kg	5	0.0100

<sup>6</sup>Surrogate out due to peak interference

<sup>7</sup>High surrogate recovery due to peak interference

<sup>8</sup>Sample ran at dilution due to hydrocarbons with a retention time greater than xylene

continued ...

sample 125241 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0500	mg/Kg	5	0.0100
Xylene		<0.0500	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3.20	mg/Kg	5	5.00	64	26 - 117.8
4-Bromofluorobenzene (4-BFB)	<sup>9</sup>	6.08	mg/Kg	5	5.00	122	51.1 - 119.1

**Sample: 125241 - AH-4 (0-0.5')**

Analysis	Chloride (IC)	Analytical Method	E 300.0	Prep Method:	N/A
QC Batch	37509	Date Analyzed	2007-05-24	Analyzed By	AR
Prep Batch	32522	Sample Preparation:		Prepared By	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		882	mg/Kg	100	1.00

**Sample: 125241 - AH-4 (0-0.5')**

Analysis	TPH DRO	Analytical Method	Mod 8015B	Prep Method	N/A
QC Batch	37504	Date Analyzed	2007-05-24	Analyzed By	AG
Prep Batch	32522	Sample Preparation	2007-05-24	Prepared By	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		587	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>10</sup>	268	mg/Kg	1	150	179	32.9 - 167

**Sample: 125241 - AH-4 (0-0.5')**

Analysis	TPH GRO	Analytical Method	S 8015B	Prep Method	S 5035
QC Batch	37596	Date Analyzed	2007-05-28	Analyzed By	AG
Prep Batch	32578	Sample Preparation:	2007-05-27	Prepared By	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		95.2	mg/Kg	5	1.00

<sup>9</sup>High surrogate recovery due to peak interference

<sup>10</sup>High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	<sup>11</sup>	2.39	mg/Kg	5	5.00	48	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	<sup>12</sup>	8.93	mg/Kg	5	5.00	179	67.5 - 140.3

**Sample: 125242 - AH-5 (0-0.5')**

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 37509 Date Analyzed: 2007-05-24 Analyzed By: AR  
 Prep Batch: 32526 Sample Preparation Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		804	mg/Kg	50	100

**Sample: 125242 - AH-5 (0-0.5')**

Analysis: TPH DRO Analytical Method: Mod 8015B Prep Method: N/A  
 QC Batch: 37504 Date Analyzed: 2007-05-24 Analyzed By: AG  
 Prep Batch: 32522 Sample Preparation: 2007-05-24 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		766	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>13</sup>	253	mg/Kg	1	150	169	32.9 - 167

**Sample: 125242 - AH-5 (0-0.5')**

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035  
 QC Batch: 37596 Date Analyzed: 2007-05-28 Analyzed By: AG  
 Prep Batch: 32578 Sample Preparation: 2007-05-27 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		145	mg/Kg	10	100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	<sup>14</sup>	5.11	mg/Kg	10	10.0	51	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	<sup>15</sup>	16.9	mg/Kg	10	10.0	169	67.5 - 140.3

**Sample: 125243 - AH-6 (0-0.5')**

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 37509 Date Analyzed: 2007-05-24 Analyzed By: AR  
 Prep Batch: 32526 Sample Preparation Prepared By: AR

<sup>11</sup>Surrogate out due to peak interference  
<sup>12</sup>High surrogate recovery due to peak interference  
<sup>13</sup>High surrogate recovery due to peak interference  
<sup>14</sup>Surrogate out due to peak interference  
<sup>15</sup>High surrogate recovery due to peak interference

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		88.3	mg/Kg	5	1.00

**Sample: 125243 - AH-6 (0-0.5')**

Analysis: TPH DRO                      Analytical Method: Mod. 8015B                      Prep Method: N/A  
 QC Batch: 37504                      Date Analyzed: 2007-05-24                      Analyzed By: AG  
 Prep Batch: 32522                      Sample Preparation: 2007-05-24                      Prepared By: AG

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		226	mg/Kg	1	150	151	32.9 - 167

**Sample: 125243 - AH-6 (0-0.5')**

Analysis: TPH GRO                      Analytical Method: S 8015B                      Prep Method: S 5035  
 QC Batch: 37596                      Date Analyzed: 2007-05-28                      Analyzed By: AG  
 Prep Batch: 32578                      Sample Preparation: 2007-05-27                      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		4.51	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.781	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	1.00	123	67.5 - 140.3

**Sample: 125244 - AH-7 (0-0.5')**

Analysis: BTEX                      Analytical Method: S 8021B                      Prep Method: S 5035  
 QC Batch: 37595                      Date Analyzed: 2007-05-28                      Analyzed By: AG  
 Prep Batch: 32578                      Sample Preparation: 2007-05-27                      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.200	mg/Kg	20	0.0100
Toluene		6.22	mg/Kg	20	0.0100
Ethylbenzene		10.6	mg/Kg	20	0.0100
Xylene		16.9	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		20.7	mg/Kg	20	20.0	104	26 - 117.8
4-Bromofluorobenzene (4-BFB)		17.7	mg/Kg	20	20.0	88	51.1 - 119.1

**Sample: 125244 - AH-7 (0-0.5')**

Analysis	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37509	Date Analyzed:	2007-05-24	Analyzed By:	AR
Prep Batch:	32522	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		669	mg/Kg	50	1.00

**Sample: 125244 - AH-7 (0-0.5')**

Analysis	TPH DRO	Analytical Method:	Mod 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2240	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>16</sup>	315	mg/Kg	1	150	210	32.9 - 167

**Sample: 125244 - AH-7 (0-0.5')**

Analysis	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37596	Date Analyzed:	2007-05-28	Analyzed By:	AG
Prep Batch:	32578	Sample Preparation:	2007-05-27	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		573	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		16.1	mg/Kg	20	20.0	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	<sup>17</sup>	36.2	mg/Kg	20	20.0	181	67.5 - 140.3

**Sample: 125245 - AH-8 (0-0.5')**

Analysis	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37509	Date Analyzed:	2007-05-24	Analyzed By:	AR
Prep Batch:	32526	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	<sup>B</sup>	13.4	mg/Kg	5	1.00

<sup>16</sup>High surrogate recovery due to peak interference

<sup>17</sup>High surrogate recovery due to peak interference

**Sample: 125245 - AH-8 (0-0.5')**

Analysis:	TPH DRO	Analytical Method:	Mod 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

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		238	mg/Kg	1	150	159	32.9 - 167

**Sample: 125245 - AH-8 (0-0.5')**

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37596	Date Analyzed:	2007-05-28	Analyzed By:	AG
Prep Batch:	32578	Sample Preparation:	2007-05-27	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.76	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.782	mg/Kg	1	1.00	78	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.20	mg/Kg	1	1.00	120	67.5 - 140.3

**Sample: 125246 - Stockpile North**

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37509	Date Analyzed:	2007-05-24	Analyzed By:	AR
Prep Batch:	32526	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2900	mg/Kg	100	1.00

**Sample: 125246 - Stockpile North**

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37504	Date Analyzed:	2007-05-24	Analyzed By:	AG
Prep Batch:	32522	Sample Preparation:	2007-05-24	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		8860	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>18</sup>	885	mg/Kg	10	150	590	32.9 - 167

**Sample: 125246 - Stockpile North**

Analysis: TPH GRO      Analytical Method: S 8015B      Prep Method: S 3035  
 QC Batch: 37689      Date Analyzed: 2007-05-30      Analyzed By: AG  
 Prep Batch: 32656      Sample Preparation: 2007-05-30      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		655	mg/Kg	50	100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		42.4	mg/Kg	50	50.0	85	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		47.7	mg/Kg	50	50.0	95	67.5 - 140.3

**Sample: 125247 - Stockpile South**

Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 37509      Date Analyzed: 2007-05-24      Analyzed By: AR  
 Prep Batch: 32526      Sample Preparation:      Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2550	mg/Kg	100	100

**Sample: 125247 - Stockpile South**

Analysis: TPH DRO      Analytical Method: Mod 8015B      Prep Method: N/A  
 QC Batch: 37504      Date Analyzed: 2007-05-24      Analyzed By: AG  
 Prep Batch: 32522      Sample Preparation: 2007-05-24      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		8750	mg/Kg	10	500

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	<sup>19</sup>	1130	mg/Kg	10	150	753	32.9 - 167

**Sample: 125247 - Stockpile South**

Analysis: TPH GRO      Analytical Method: S 8015B      Prep Method: S 3035  
 QC Batch: 37689      Date Analyzed: 2007-05-30      Analyzed By: AG  
 Prep Batch: 32656      Sample Preparation: 2007-05-30      Prepared By: AG

<sup>18</sup>High surrogate recovery due to peak interference  
<sup>19</sup>High surrogate recovery due to peak interference

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1890	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		53.1	mg/Kg	50	50.0	106	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	<sup>20</sup>	80.9	mg/Kg	50	50.0	162	67.5 - 140.3

Method Blank (1) QC Batch: 37504

QC Batch: 37504 Date Analyzed: 2007-05-24 Analyzed By: AG  
Prep Batch: 32522 QC Preparation: 2007-05-24 Prepared By: MS

Parameter	Flag	MDL Result	Units	RL
DRO		29.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		174	mg/Kg	1	150	116	44.7 - 133.6

Matrix Blank (1) QC Batch: 37509

QC Batch: 37509 Date Analyzed: 2007-05-24 Analyzed By: AR  
Prep Batch: 32526 QC Preparation: 2007-05-24 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.22	mg/Kg	1

Method Blank (1) QC Batch: 37595

QC Batch: 37595 Date Analyzed: 2007-05-28 Analyzed By: AG  
Prep Batch: 32578 QC Preparation: 2007-05-27 Prepared By: AG

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)		0.681	mg/Kg	1	1.00	68	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.929	mg/Kg	1	1.00	93	53.9 - 125.1

<sup>20</sup>High surrogate recovery due to peak interference

**Method Blank (1)**      QC Batch: 37596

QC Batch: 37596  
Prep Batch: 32578

Date Analyzed: 2007-05-28  
QC Preparation: 2007-05-27

Analyzed By: AG  
Prepared By: AG

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)		0.595	mg/Kg	1	1.00	60	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.40	mg/Kg	1	1.00	140	67.5 - 140.3

**Method Blank (1)**      QC Batch: 37689

QC Batch: 37689  
Prep Batch: 32656

Date Analyzed: 2007-05-30  
QC Preparation: 2007-05-30

Analyzed By: AG  
Prepared By: AG

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)		0.891	mg/Kg	1	1.00	89	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.834	mg/Kg	1	1.00	83	67.5 - 140.3

**Laboratory Control Spike (LCS-1)**

QC Batch: 37504  
Prep Batch: 32522

Date Analyzed: 2007-05-24  
QC Preparation: 2007-05-24

Analyzed By: AG  
Prepared By: MS

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit
DRO	263	mg/Kg	1	250	<14.6	105	47.5 - 144.1

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

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	251	mg/Kg	1	250	<14.6	100	47.5 - 144.1	5	20

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

Surrogate	LCS Result	LCS Result	Units	Dil	Spike Amount	LCS Rec.	LCS Rec	Rec. Limit
n-Triacontane	177	170	mg/Kg	1	150	118	113	57.3 - 131.6





**Matrix Spike (MS-1)** Spiked Sample: 125247

QC Batch: 37509 Date Analyzed: 2007-05-24 Analyzed By: AR  
Prep Batch: 32526 QC Preparation: 2007-05-24 Prepared By: AR

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec Limit
Chloride	3910	mg/Kg	100	1250	2548.25	109	90 - 110

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	<sup>21</sup> 3550	mg/Kg	100	1250	2548.25	80	90 - 110	10	

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

**Matrix Spike (MS-1)** Spiked Sample: 125245

QC Batch: 37596 Date Analyzed: 2007-05-28 Analyzed By: AG  
Prep Batch: 32578 QC Preparation: 2007-05-27 Prepared By: AG

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec Limit
GRO	7.59	mg/Kg	1	10.0	2.76	48	10 - 141.5

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	7.37	mg/Kg	1	10.0	2.76	46	10 - 141.5	3	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)	0.681	0.663	mg/Kg	1	1	68	66	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.18	1.13	mg/Kg	1	1	118	113	86.7 - 144.5

**Matrix Spike (MS-1)** Spiked Sample: 125777

QC Batch: 37689 Date Analyzed: 2007-05-30 Analyzed By: AG  
Prep Batch: 32656 QC Preparation: 2007-05-30 Prepared By: AG

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec Limit
GRO	7.20	mg/Kg	1	10.0	0.8627	63	10 - 141.5

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	7.66	mg/Kg	1	10.0	0.8627	68	10 - 141.5	6	20

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

<sup>21</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control





Standard (CCV-1)

QC Batch 37689

Date Analyzed 2007-05-30

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	85 - 115	2007-05-30

Pat

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 <u>Latigo Petroleum, Inc.</u>	Contact <u>Lisa Hunt</u>
Address <u>P.O. Box 10340 Midland, TX 79702-7340</u>	Telephone No. <u>(432)685-8229</u>
Facility Name <u>State CM #2 Battery</u>	Facility Type <u>Tank Battery</u>

Surface Owner <u>State of NM</u>	Mineral Owner <u>NM</u>	Lease No.
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	2	18S	33E					Lea

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

#### NATURE OF RELEASE

Type of Release <u>Spill</u>	Volume of Release <u>50 BO/30 BW</u>	Volume Recovered <u>Still recovering</u>
Source of Release <u>Tank Battery</u>	Date and Hour of Occurrence <u>5/10/07</u>	Date and Hour of Discovery <u>5/11-1:00p</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Pat Caperton</u>	@ <u>11pm</u>
By Whom? <u>Lisa Hunt</u>	Date and Hour <u>5/11/07 - 3:00 pm</u>	
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.\*

INFO REQUESTED ON ALL C-141 REPORTS  
 ① NEED CHLORIDE CONTENT ON WTR SPILLED  
 ② NEED AREAL DIMENSION OF SPILL AREA  
 ③ OCD ASSIGNED RP # ON ALL SUBMITTALS

Describe Cause of Problem and Remedial Action Taken.\*

Oil and water dump plug failure.

Describe Area Affected and Cleanup Action Taken.\*

Due to recent heavy rains the ground is very saturated so the spill just ran and didn't soak in. Currently, there is work being done to recover the spill. Once the area is cleaned up and remediated we will send another updated C-141.

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: <u>Lisa Hunt</u>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <u>Lisa Hunt</u>	Approved by District Supervisor:	
Title: <u>Regulatory Analyst</u>	Approval Date:	Expiration Date:
E-mail Address: <u>huntl@pogoproducing.com</u>	Conditions of Approval:	
Date: <u>05/11/2007</u> Phone: <u>(432)685-8229</u>	Attached <input type="checkbox"/>	

\* 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

Form C-141  
Revised June 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: Pat Ellis
Address: P.O. Box 10340 Midland, Texas 79702-7340	Telephone No. (432) 685-8100
Facility Name: State CM #2 Battery	Facility Type: Tank Battery

Surface Owner State of NM	Mineral Owner State of NM	Lease No.
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**LOCATION OF RELEASE**

Unit Letter	Section\	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	2	18S	33E					Lea

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

**NATURE OF RELEASE**

Type of Release Spill	Volume of Release 50BO/30BW	Volume Recovered Unknown
Source of Release Tank Battery	Date and Hour of Occurrence 05/10/07	Date and Hour of Discovery 05/11/07 at 1:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat Caperton	
By Whom? Lisa Hunt	Date and Hour 05/11/07 3:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

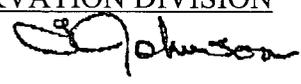
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Oil and water dump plug failure

Describe Area Affected and Cleanup Action Taken.\*

Initially, due to heavy rains, spill did not soak into ground. Approximately 6 inches of surface soil were excavated at the site. The site was then hand augured and retested to determine extent of contamination if any. Remaining hydrocarbons were below NMOCD standards.

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: Patrick L. Ellis		
Title: Environmental Health and Safety Supervisor	Approved by District Supervisor:	<b>ENVIRONMENTAL ENGINEER</b>
E-mail Address: <a href="mailto:ellisp@pogoproducing.com">ellisp@pogoproducing.com</a>	Approval Date: 9.13.07	Expiration Date:
Date: 7/16/07 Phone: (432) 685-8148	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

RBC