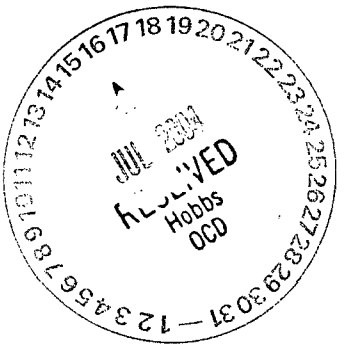
Highlander Environmental Corp.

Midland, Texas

June 28, 2004



Mr. Larry Johnson
Environmental Bureau
New Mexico Oil Conservation Division
1625 N. French Drive
P.O. Box 1980
Hobbs, New Mexico 88240

Re: Subsurface Investigation and Work Plan for the Pogo Producing Company, ~~E.C. Hill "A, B and C" Tank Battery~~, Located in Section 27, Township 23 South, Range 37 East, Lea County New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) has prepared a work plan for the E.C. Hill "A, B and C" Tank Battery in Lea County, New Mexico, Lea County New Mexico (Site) located in ~~Section 27, Township 23 South, Range 37 East.~~ The Site is shown in Figure 1. This facility is an ~~old battery,~~ which has had numerous spills from previous operators. Prior to Pogo Producing Company, the tank battery was operated by Chevron and Midcontinent.

Previous Correspondence

A New Mexico Oil Conservation Division (NMOCD) response letter, dated August 14, 2003, approved the work plan with some requirements to defer the assessment work until the facility was inactive. Highlander submitted a revised work plan and responses, dated ~~August 29, 2003,~~ to the NMOCD in Hobbs, New Mexico. This work plan summarizes the NMOCD responses and the proposed activities to assess the soils.

Background

Under Pogo, several documented spills have occurred over older spills at the facility. The majority of the spills have occurred around production equipment and active underground lines. Several attempts have been made define the extents of the impact using a stainless steel bucket-type hand auger. A shallow, dense, caliche layer has been encountered from 6" to 1.0' below surface, which causes auger refusal. These spill areas are not accessible for equipment, such as a backhoe or drilling rig.

Initially, Pogo Producing Company had proposed to defer all inaccessible assessment and major cleanup activities until abandonment of the tank battery. Once inactive, Pogo had proposed to remove all production equipment and lines, perform an environmental assessment to vertically define the extents, and properly address the impacted soil at the facility. In November 2003, Pogo shut down all production to the tank battery and removed all tanks, vessels, equipment and lines making

Pogo - 17891 incident - nPAC0603838849

1910 N. Big Spring • Midland, Texas 79705 • (432) 682-4559 • Fax (432) 682-3946

facility - fPAC0603838730 application - pPAC0603838937

the former tank battery location accessible to perform an assessment.

Groundwater and Regulatory

According to the New Mexico State Engineer Office W.A.T.E.R.S. database, Average Depth to Water Report, water wells are located in Section 9, 16 and 32, Township 23 South, Range 37 East, with an average depth to water of 100', 115' and 106', respectively. The well reports are shown in Appendix A. A static water level was collected from a windmill located in Section 34, Township 23 South, Range 37 East. The windmill showed a static water level of 82' below surface. Based on the water level and surface elevation, the depth of groundwater is projected to be around ~~95' to 100'~~ below surface.

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 1,000 mg/kg.

SOIL ASSESSMENT

Once the facility was dismantled, the impacted soils were excavated in the areas of the tanks, vessels and lines. The soil was excavated to a depth of approximately 5.0' below surface. The excavation is shown in Figure 2. A total of 4,640 cubic yards of material was transported and disposed at Sundance Services Inc, located in Eunice, New Mexico.

Trench Installation and Results

On February 20, 2004, Highlander supervised the installation of 15 test trenches in the bottom of the excavation using a backhoe. Prior to the installation of the test trenches, the excavation was segregated into fifteen (15) areas for sampling. The trench locations are shown in Figure 2. Soil samples were collected at 2.0' foot intervals, placed into laboratory supplied containers and properly preserved during transport. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) by method SW 846 8015B, selected samples for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA method 602/8021B, and chloride by method SW 846 9253 in Area #1. The soil sample results are summarized in Table 1. The laboratory report and chain of custody are enclosed in Appendix B.

Referring to Table 1, areas #3, #6, # 10 and #13 were not vertically defined and showed a hydrocarbon impact to a depth of 9.0 below excavation bottom. Area #1 did not show any detectable hydrocarbon impact, however, did exhibit chloride concentrations of 2,280 mg/kg at 0-1' to 1,040 mg/kg at 9.0' below excavation bottom. Areas #4, #5 and #7 did show TPH concentrations decreasing with depth below 1,000 mg/kg at a depth of 3.0' and 5.0' below excavation bottom.

Based on the results, Highlander installed boreholes in the areas of #1, #3, #6, # 10 and #13 to attempt to define the vertical extents of soil impact.

Borehole Installation

On May 13, 2004, Highlander supervised the installation of eight (8) boreholes (BH-1 through BH-8). Boreholes were installed in the excavation in areas #1, #3, #6, # 10 and #13. Three (3) additional boreholes (BH-7, BH-8 and BH-9) were installed north of the excavation for horizontal extents. The borehole locations are shown in Figure 3.

Boreholes were installed using an air-rotary type drilling rig. Soil samples were collected at 5 and 10 foot intervals during rotary drilling operations using a split spoon sampler and core barrel sampler. During sample collection, a portion of each soil sample was placed into a clean plastic sample bag and sealed. After a short period of time at ambient temperature storage, the concentration of organic vapors in the headspace of the sample bag were measured with a Thermo Environmental Instruments, Model 580B, Organic Vapor Meter (OVM).

The splitspoon and core barrel samplers were washed between boreholes and sampling events using potable water and laboratory grade detergent. All down hole equipment (i.e., drill rods, drill bits, etc.) were thoroughly decontaminated between each use with a high-pressure hot water wash and rinse. Soil cuttings from drilling were stockpiled adjacent to the borehole. Following the completion of the drilling activities, all boreholes were grouted to surface.

Soil Analysis and Results

All of the samples were collected in laboratory supplied containers and properly preserved during transport. Soil samples from each borehole were submitted under chain-of-custody control and analyzed for Total Petroleum Hydrocarbons (TPH) by method SW 846 8015B, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) by EPA method 602/8021B, and chloride by method SW 846 9253. The soil sample results are summarized in Table 2. The laboratory report and chain of custody are enclosed in Appendix B.

Referring to Table 2, the boreholes BH-1, BH-2, BH-3 and BH-4, installed in the bottom of the excavation, did not vertically define the hydrocarbon impact at the Site. The depths of the boreholes ranged from 30' to 80' below excavation bottom. The deepest borehole BH-2 showed increasing TPH concentrations depth and traces of BTEX at 80' below excavation bottom. BH-3 and BH-4 drilled to a total depth of 70' showed a slight TPH decrease with depth to 6,780 mg/kg (70') and 5,480 mg/kg (70'), respectively. The hydrocarbon impact in BH-5 was vertically defined with a TPH level of 432 mg/kg at 30' below excavation bottom. In addition, the chloride concentrations decreased with depth and does not appear to an environmental concern. The boreholes (BH-6, BH-7 and BH-8) were installed for additional horizontal extents to a depth of 30.0' below surface. The samples from BH-6 and BH-7 did show a hydrocarbon impact to a depth of 30' below surface. BH-8 did not showed TPH levels above 100 mg/kg.

Conclusions/Work Plan

Based on the soils assessment, the hydrocarbon impact appears to have migrated deep into the subsurface soils. Boreholes BH-1, BH-2, BH-3 and BH-4, installed in the bottom of the excavation, did not vertically define the hydrocarbon impact at the Site. The impacted soils are near groundwater depth, which is estimated at 95' to 100' below surface.

Due to the depth of the soil impact, Pogo proposes one (1) monitor well to be installed to check the groundwater qualities. Once the groundwater qualities have been evaluated, a work plan will be submitted to address the impacted subsurface soils. Based on the groundwater evaluation, additional monitor wells may be installed to further assess or define the extent of the groundwater plume.

Highlander will supervise the installation of one (1) groundwater monitoring well at the Site. The well will be installed in the excavated area. The monitor well will be drilled using air/water rotary drilling or hollow stem techniques, and constructed using two (2) inch diameter schedule 40 PVC threaded casing and factory slotted screen. The well will be constructed with approximately twenty (20) feet of well screen. The wells will be drilled to depths of approximately 115 to 120' feet below ground surface (BGS), and the well screen will be installed with about five (5) feet of screen above and fifteen (15) feet below the groundwater, to evaluate groundwater quality for light hydrocarbon compounds. The well screens will be surrounded with a graded silica sand to a depth approximately 2 feet above the screen. A layer of bentonite pellets, approximately 2-3 feet thick, will be placed in the borehole above the sand. The remainder of the borehole will be filled with cement and bentonite grout to about one (1) foot below ground. The well will be secured with locking steel protectors anchored in a concrete pad measuring approximately 3 feet by 3 feet. If more than well is installed, a land surveyor licensed in the State of New Mexico will survey the wells for location and elevation.

Following installation, the wells will be developed by bailing with a rig or hand bailer, or pumped with an electric submersible pump to remove fine grained sediment disturbed during drilling and to ensure collection of representative groundwater samples. Water removed from the wells will be placed in appropriate containers (i.e., 55-gallon drums, portable tank, etc.) and retained at the Sites until disposal is arranged. A groundwater sample will be collected following well development and analyzed for BTEX, anions, cations, and total dissolved solids (TDS). The well will be inspected for the presence of phase-separated hydrocarbons (PSH) and, if present, a sample will be collected and analyzed by gas chromatography (GC) to determine composition and origin. If PSH is detected, a groundwater sample will not be collected from that well. All samples will be delivered to the laboratory under chain of custody control.

Upon receipt of analytical data from the laboratory, Highlander will prepare a report/work plan that discusses the field investigations and remedial activities for the Site. Please call me at (432) 682-4559 if you have questions.

Respectfully submitted,
Highlander Environmental Corp.

Ike Tavarez by mgk

Ike Tavarez
Project Manager/Geologist

cc: Rex Jasper –Pogo
Don Riggs - Pogo

Johnson, Larry, EMNRD

From: Ike T [itavarez@hec-enviro.com] **Sent:** Mon 12/5/2005 8:12 AM
To: Johnson, Larry, EMNRD
Cc: Pat Ellis
Subject: Notification - Soil Capping of the Pogo, E.C. Hill Tank Battery
Attachments:

Pogo Producing Company (Arch Petroleum)

E.C. Hill A and B Tank Battery

Section 27, T23S, R37E

Lea County, New Mexico

We are scheduled to cap the Site on Wednesday (12/7/05). As approved by NMOCD in Santa Fe, NM, the Site has been prepared for the installation of a 40 mil liner (cap). Once the cap is installed, the excavation will be backfilled with clean fill material to grade. If you need additional information please call me, Thanks.

Highlander Environmental Corp.

Ike Tavarez, PG

Senior Geologist

FIGURES

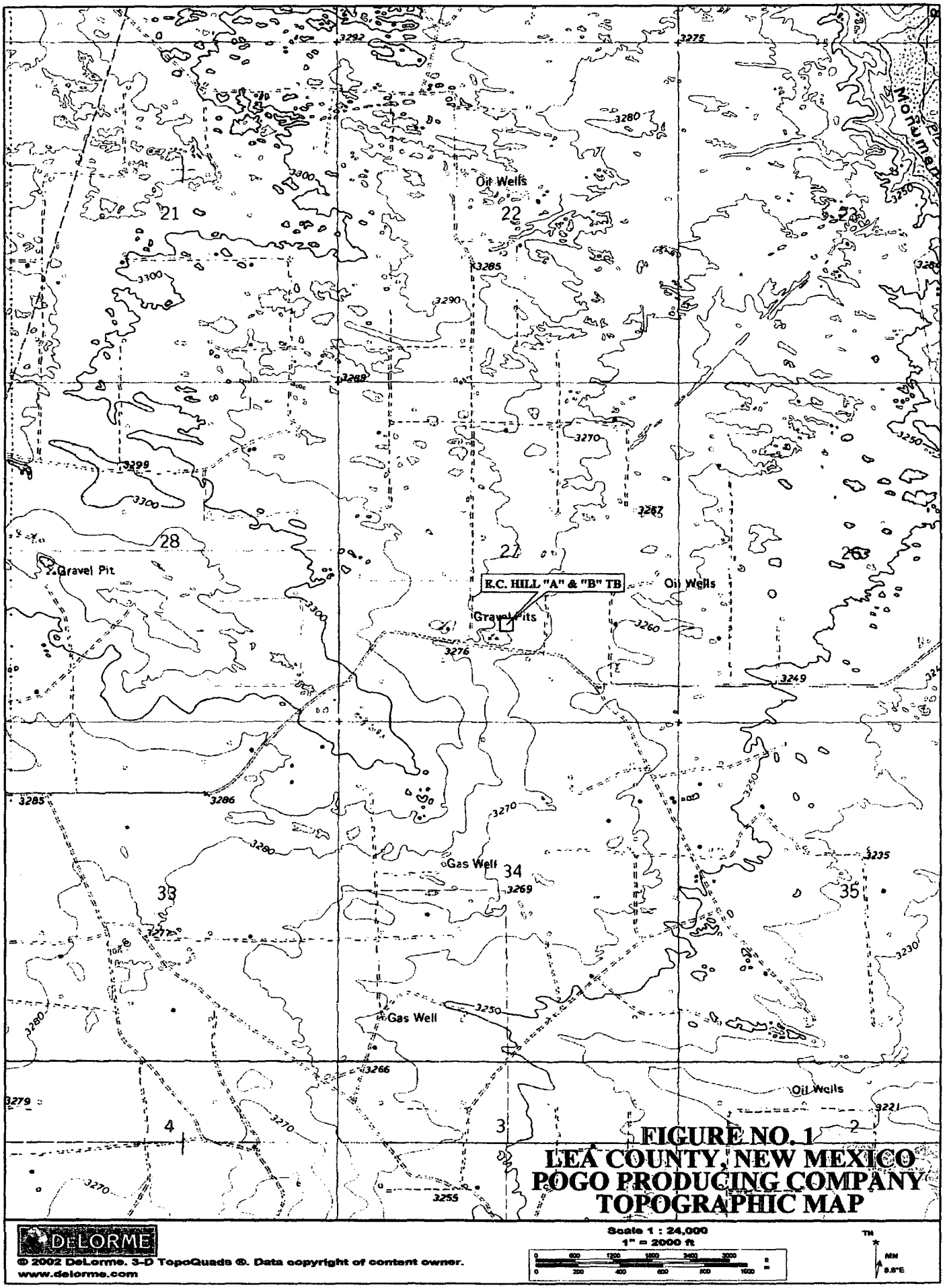


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
POGO PRODUCING COMPANY
TOPOGRAPHIC MAP

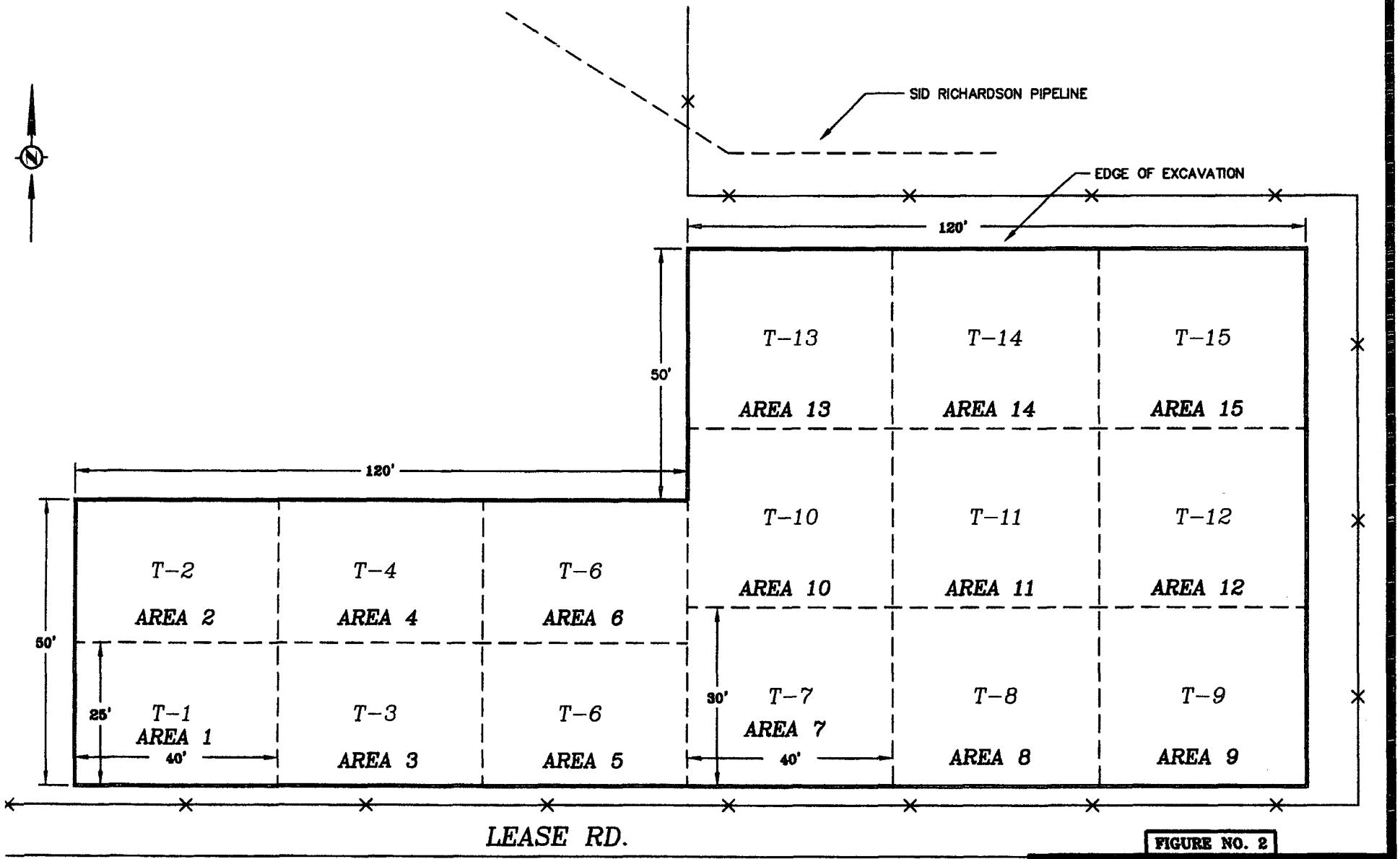


FIGURE NO. 2

LEA COUNTY, NEW MEXICO

POGO PRODUCING COMPANY

E.C. HILL "A" "B" & "C" TB
TEST TRENCHES

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 3/9/04
DWG. BY: JJ
FILE: G:\POGO\1746\HILL_A-B

T-1 TRENCH LOCATION

NOT TO SCALE

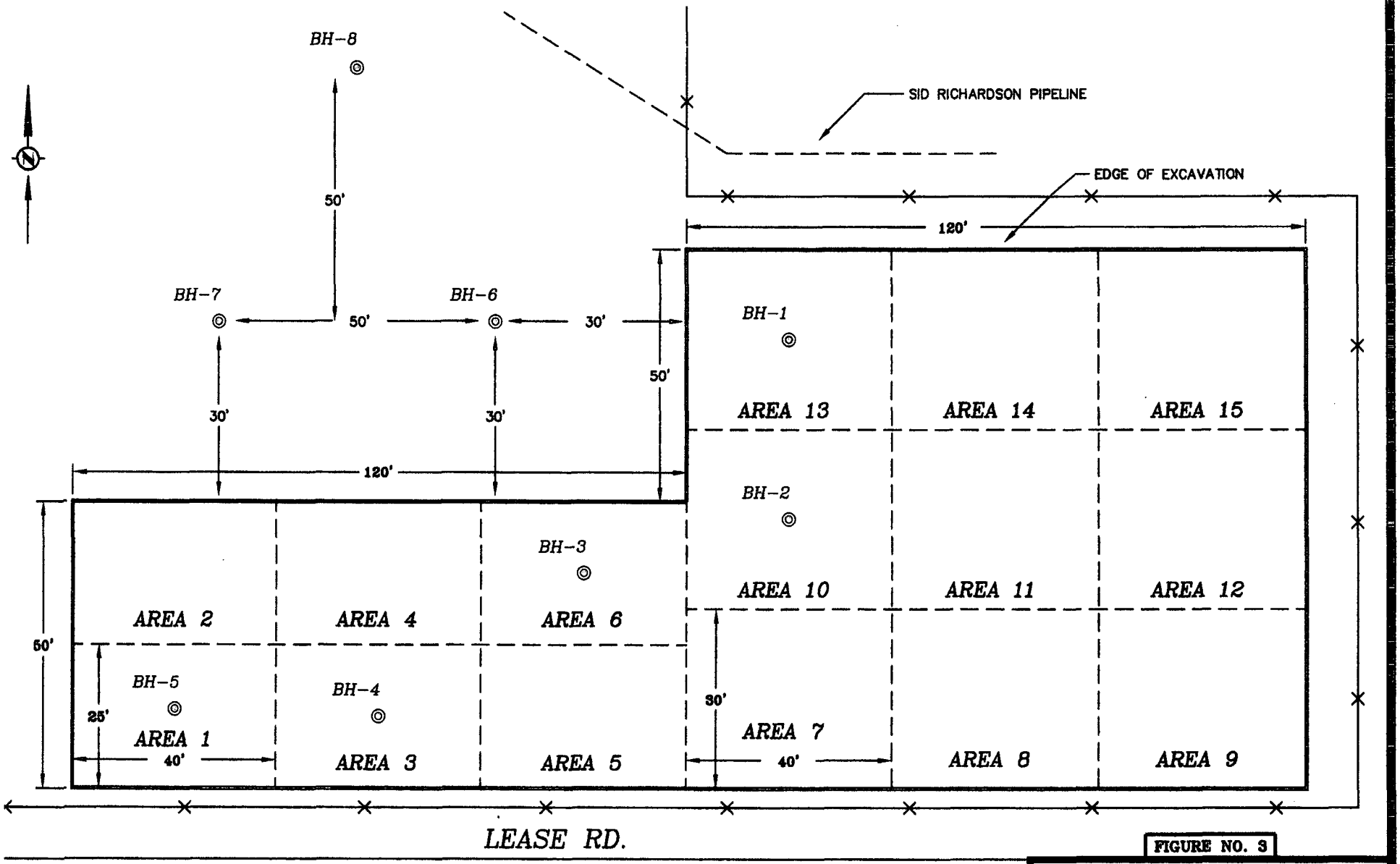


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

POGO PRODUCING COMPANY

E.C. HILL "A" "B" & "C" TB
BOREHOLES

DATE: 3/9/04
DWG. BY: JJ
FILE: C:\POGO\1740\HILL_A-B FIG 3

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

◎ BOREHOLE LOCATION

NOT TO SCALE

TABLES

TABLE NO. 1

Pogo Producing Company
E.C. Hill A & B TANK BATTERY
Lea County, New Mexico

ANALYTICAL DATA

O&G/1746/Table 1

Sample Date	Sample ID	Sample Depth (ft)	TPH (mg/kg) C6-C-12	C12-C35	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg	Xylene (mg/kg)	Chloride (mg/kg)
2/20/2004	T-1	0'-1'	<10.0	19.9	19.9	-	-	-	-	2280
	T-1	3.0'	-	-	-	-	-	-	-	2550
	T-1	7.0'	-	-	-	-	-	-	-	2020
	T-1	9.0'	-	-	-	-	-	-	-	1040
2/20/2004	T-2	0'-1'	<10.0	17.1	17.1	-	-	-	-	71
2/20/2004	T-3	0'-1'	356	1,730	**2,090**	-	-	-	-	142
	T-3	3.0'	2,570	7,470	**10,000**	-	-	-	-	-
	T-3	5.0'	1,500	4,090	**5,600**	-	-	-	-	-
	T-3	7.0'	1,540	3,770	**5,310**	-	-	-	-	-
	T-3	9.0'	1,520	3,970	**5,490**	-	-	-	-	-
2/20/2004	T-4	0'-1'	201	3480	**3860**	-	-	-	-	142
	T-4	3.0'	<10.0	80.9	80.9	-	-	-	-	-
2/20/2004	T-5	0'-1'	249	2,010	**2,260**	-	-	-	-	298
	T-5	3.0'	<10.0	10.4	10.4	-	-	-	-	-
2/20/2004	T-6	0'-1'	1,540	8,410	**9,950**	0.569	0.271	1.91	6.27	404
	T-6	3.0'	1,430	8,150	**9,580**	-	-	-	-	-
	T-6	5.0'	1,800	8,830	**10,600**	-	-	-	-	-
	T-6	7.0'	916	4,070	**4,980**	-	-	-	-	-
	T-6	9.0'	1,350	6,000	**7,350**	-	-	-	-	-
2/20/2004	T-7	0'-1'	148	4,430	**4,580**	-	-	-	-	383
	T-7	3.0'	85.2	3,860	**3,950**	-	-	-	-	-
	T-7	5.0'	<10.0	779	779	-	-	-	-	-
2/20/2004	T-8	0'-1'	<10.0	16.8	16.8	-	-	-	-	99

TABLE NO. 1

Pogo Producing Company
E.C. Hill A & B TANK BATTERY
Lea County, New Mexico

ANALYTICAL DATA

O&G/1746/Table 1

Sample Date	Sample ID	Sample Depth (ft)	TPH (mg/kg) C6-C-12	C12-C35	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg	Xylene (mg/kg)	Chloride (mg/kg)
2/20/2004	T-9	0'-1'	<10.0	<10.0	<10.0	-	-	-	-	234
2/20/2004	T-10	0'-1'	1,180	3,500	**4,680**	0.173	0.635	2.28	7.39	276
	T-10	3.0'	1,390	4,060	**5,450**	-	-	-	-	-
	T-10	5.0'	2,150	6,880	**9,030**	-	-	-	-	-
	T-10	7.0'	943	3,410	**4,350**	-	-	-	-	-
	T-10	9.0'	795	3,080	**3,880**	-	-	-	-	-
2/20/2004	T-11	0'-1'	<10.0	<10.0	<10.0	-	-	-	-	142
2/20/2004	T-12	0'-1'	<10.0	11.1	11.1	-	-	-	-	99
2/20/2004	T-13	0'-1'	1,170	5,520	**6,690**	0.285	0.607	1.35	3.28	213
	T-13	3.0'	1,320	5,030	**6,350**	-	-	-	-	-
	T-13	5.0'	1,850	6,290	**8,140**	-	-	-	-	-
	T-13	7.0'	1,410	4,440	**5,850**	-	-	-	-	-
	T-13	9.0'	1,740	4,880	**6,620**	-	-	-	-	-
2/20/2004	T-14	0'-1'	<10.0	84.3	84.3	-	-	-	596	
2/20/2004	T-15	0'-1'	<10.0	36.8	36.8	-	-	-	574	

(-) = Not Analyzed
T = Trench
Sample Depth = below excavation bottom

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Lea County, New Mexico

Date Sampled	Sample ID	Depth (ft)	OVM (ppm)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				C6-C12	C12-C35	Total					
5/13/2004	BH-1 (T-13)	5-6	270	-	-	-	-	-	-	-	-
5/13/2004		10-11	439	-	-	-	-	-	-	-	-
5/13/2004		15-16	606	1,100	3,490	4,590	-	-	-	-	-
5/13/2004		20-21	658	-	-	-	-	-	-	-	-
5/13/2004		25-26	613	-	-	-	-	-	-	-	-
5/13/2004		30-31	902	872	3,420	4,290	-	-	-	-	-
5/13/2004		35-36	897	-	-	-	-	-	-	-	-
5/13/2004		40-41	942	-	-	-	-	-	-	-	-
5/13/2004		45-46	728	-	-	-	-	-	-	-	-
5/13/2004		50-51	925	7,730	14,100	21,800	5.1	20.8	15.7	48.1	
5/13/2004	BH-2 (T-10)	5-6	142	-	-	-	-	-	-	-	-
5/13/2004		10-11	167	-	-	-	-	-	-	-	-
5/13/2004		15-16	320	432	2,230	2,660	-	-	-	-	-
5/13/2004		20-21	447	-	-	-	-	-	-	-	-
5/13/2004		30-31	618	516	1,560	2,080	-	-	-	-	-
5/13/2004		40-41	847	-	-	-	-	-	-	-	-
5/13/2004		50-51	861	779	2,440	3,220	-	-	-	-	-
5/13/2004		60-61	147	-	-	-	-	-	-	-	-
5/13/2004		70-71	725	-	-	-	-	-	-	-	-
5/13/2004		80-81	405	1,670	4,770	6,440	0.157	0.227	1.307	1.367	-

(-) Not Analyzed

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Borehole Installation
Lea County, New Mexico

Date Sampled	Sample ID	Depth (ft)	OVM (ppm)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				C6-C12	C12-C35	Total					
5/14/2004	BH-3 (T-6)	5-6	260	-	-	-	-	-	-	-	-
5/14/2004		10-11	541	-	-	-	-	-	-	-	-
5/14/2004		15-16	720	2,020	7,250	9,270	-	-	-	-	-
5/14/2004		20-21	836	-	-	-	-	-	-	-	-
5/14/2004		30-31	561	623	3,140	3,760	-	-	-	-	-
5/14/2004		40-41	1022	-	-	-	-	-	-	-	-
5/14/2004		50-51	450	1,010	5,290	6,300	-	-	-	-	-
5/14/2004		60-61	567	-	-	-	-	-	-	-	-
5/14/2004		70-71	554	1,280	5,500	6,780	0.110	1.05	1.54	6.77	-
5/14/2004	BH-4 (T-3)	5-6	1800	-	-	-	-	-	-	-	-
5/14/2004		10-11	1811	-	-	-	-	-	-	-	-
5/14/2004		15-16	2100	2,710	5,460	8,170	1.94	22.50	23.20	62.80	-
5/14/2004		20-21	1941	-	-	-	-	-	-	-	-
5/14/2004		30-31	2131	1,490	3,340	4,830	-	-	-	-	-
5/14/2004		50-51	1395	-	-	-	-	-	-	-	-
5/14/2004		70-71	960	1,090	4,390	5,480	-	-	-	-	-
5/14/2004	BH-5 (T-1)	10-11	400	644	2,800	3,440	-	-	-	-	2,760
5/14/2004		15-16	200	586	3,020	3,610	<0.025	0.0616	0.0705	0.4776	744
5/14/2004		20-21	340	-	-	-	-	-	-	-	723
5/14/2004		30-31	39	36.8	386	423	-	-	-	-	304

(-) Not Analyzed

Table 2
Pogo Producing Company
E. C. Hill A&B Tank Battery
Borehole Installation
Lea County, New Mexico

Date Sampled	Sample ID	Depth (ft)	OVM (ppm)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				C6-C12	C12-C35	Total					
5/14/2004	BH-6	5-6	500	1,610	4,420	6,030	-	-	-	-	-
5/14/2004		10-11	962	1,870	3,490	5,360	-	-	-	-	-
5/14/2004		20-21	1081	-	-	-	-	-	-	-	-
5/14/2004		30-31	1131	3,220	6,770	9,990	0.0386	5.09	5.32	20.6	-
5/17/2004	BH-7	5-6	5	<10.0	2,070	2,070	-	-	-	-	-
5/17/2004		10-11	390	521	1,760	2,280	-	-	-	-	-
5/17/2004		20-21	659	-	-	-	-	-	-	-	-
5/17/2004		30-31	556	843	2,530	3,370	<0.025	0.194	0.116	3.33	-
5/17/2004	BH-8	5-6	2	<10.0	42.5	42.5	-	-	-	-	-
5/17/2004		10-11	2	<10.0	<10.0	<10.0	-	-	-	-	-
5/17/2004		20-21	1	-	-	-	-	-	-	-	-
5/17/2004		30-31	1	-	-	-	-	-	-	-	-

(-) Not Analyzed

APPENDIX A

Well Report

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 23S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

Well / Surface Data Report | Avg Depth to Water Report | Water Column Report | Clear Form | WATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 06/28/2004

							(Depth Water in Feet)		
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
CP	23S	37E	09				1	100	100	100
CP	23S	37E	16				1	115	115	115
CP	23S	37E	32				1	106	106	106

Record Count: 3

APPENDIX B

Analytical Report

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746

Location: Lea Co. NM

Lab Order Number: 4E21002

Report Date: 05/27/04

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	05/27/04 11:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (15-16')	4E21002-02	Soil	05/13/04 00:00	05/20/04 17:20
BH-1 (30-31')	4E21002-05	Soil	05/13/04 00:00	05/20/04 17:20
BH-1 (50-51')	4E21002-09	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (15-16')	4E21002-11	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (30-31')	4E21002-13	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (50-51')	4E21002-15	Soil	05/13/04 00:00	05/20/04 17:20
BH-2 (80-81')	4E21002-18	Soil	05/13/04 00:00	05/20/04 17:20
BH-3 (15-16')	4E21002-19	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (30-31')	4E21002-21	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (50-51')	4E21002-23	Soil	05/14/04 00:00	05/20/04 17:20
BH-3 (70-71')	4E21002-25	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (15-16')	4E21002-26	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (30-31')	4E21002-28	Soil	05/14/04 00:00	05/20/04 17:20
BH-4 (70-71')	4E21002-30	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (10-11')	4E21002-31	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (15-16')	4E21002-32	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (20-21')	4E21002-33	Soil	05/14/04 00:00	05/20/04 17:20
BH-5 (30-31')	4E21002-34	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (5-6')	4E21002-35	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (10-11')	4E21002-36	Soil	05/14/04 00:00	05/20/04 17:20
BH-6 (30-31')	4E21002-38	Soil	05/14/04 00:00	05/20/04 17:20
BH-7 (5-6')	4E21002-39	Soil	05/17/04 00:00	05/20/04 17:20
BH-7 (10-11')	4E21002-40	Soil	05/17/04 00:00	05/20/04 17:20
BH-7 (30-31')	4E21002-42	Soil	05/17/04 00:00	05/20/04 17:20
BH-8 (5-6')	4E21002-43	Soil	05/17/04 00:00	05/20/04 17:20
BH-8 (10-11')	4E21002-44	Soil	05/17/04 00:00	05/20/04 17:20

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Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (15-16') (4E21002-02) Soil									
Gasoline Range Organics C6-C12	**1100**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3490**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4590**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	
BH-1 (30-31') (4E21002-05) Soil									
Gasoline Range Organics C6-C12	**872**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3420**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4290**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
BH-1 (50-51') (4E21002-09) Soil									
Benzene	**5.14**	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**20.8**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**15.7**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**31.2**	0.0250	"	"	"	"	"	"	
Xylene (o)	**16.9**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*1150 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**7730**	50.0	mg/kg dry	5	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**14100**	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**21800**	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*25.2 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*38.4 %*	*70-130*		"	"	"	"	*S-06*

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (15-16') (4E21002-11) Soil									
Gasoline Range Organics C6-C12	**432**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2230**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2660**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
BH-2 (30-31') (4E21002-13) Soil									
Gasoline Range Organics C6-C12	**516**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1560**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2080**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*113 %*	*70-130*		"	"	"	"	
BH-2 (50-51') (4E21002-15) Soil									
Gasoline Range Organics C6-C12	**779**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2440**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3220**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	
BH-2 (80-81') (4E21002-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**0.157**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.227**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.822**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.485**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**1670**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**4770**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6440**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	

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Quality Assurance Review

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (15-16') (4E21002-19) Soil									
Gasoline Range Organics C6-C12	**2020**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**7250**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**9270**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*120 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	
BH-3 (30-31') (4E21002-21) Soil									
Gasoline Range Organics C6-C12	**623**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3140**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3760**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
BH-3 (50-51') (4E21002-23) Soil									
Gasoline Range Organics C6-C12	**1010**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**5290**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6300**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*127 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	
BH-3 (70-71') (4E21002-25) Soil									
Benzene	**0.110**	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**1.05**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.54**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**4.38**	0.0250	"	"	"	"	"	"	
Xylene (o)	**2.39**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*153 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**1280**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**5500**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6780**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*125 %*	*70-130*		"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory.. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Roland K Tuttle

Quality Assurance Review

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-4 (15-16') (4E21002-26) Soil									
Benzene	**1.94**	0.100	mg/kg dry	100	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**22.5**	0.100	"	"	"	"	"	"	
Ethylbenzene	**23.2**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**46.2**	0.100	"	"	"	"	"	"	
Xylene (o)	**16.6**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*362 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*95.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**2710**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**5460**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**8170**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*139 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*152 %*	*70-130*		"	"	"	"	*S-06*
BH-4 (30-31') (4E21002-28) Soil									
Gasoline Range Organics C6-C12	**1490**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3340**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**4830**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	
BH-4 (70-71') (4E21002-30) Soil									
Gasoline Range Organics C6-C12	**1090**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**4390**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5480**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-5 (10-11') (4E21002-31) Soil									
Gasoline Range Organics C6-C12	**644**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2800**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3440**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*116 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*125 %*	*70-130*		"	"	"	"	
BH-5 (15-16') (4E21002-32) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**0.0616**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0705**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.397**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0806**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**586**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3020**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3610**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*124 %*	*70-130*		"	"	"	"	
BH-5 (30-31') (4E21002-34) Soil									
Gasoline Range Organics C6-C12	**36.8**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**386**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**423**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.8 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-6 (5-6') (4E21002-35) Soil									
Gasoline Range Organics C6-C12	**1610**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**4420**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**6030**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*123 %*	*70-130*		"	"	"	"	
BH-6 (10-11') (4E21002-36) Soil									
Gasoline Range Organics C6-C12	**1870**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**3490**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5360**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
BH-6 (30-31') (4E21002-38) Soil									
Benzene	**0.386**	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**5.09**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**5.32**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**13.5**	0.0250	"	"	"	"	"	"	
Xylene (o)	**7.10**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*362 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**3220**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**6770**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**9990**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*125 %*	*70-130*		"	"	"	"	

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	05/27/04 11:42

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-7 (5-6') (4E21002-39) Soil									
Gasoline Range Organics C6-C12	**J [9.53]**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	J
Diesel Range Organics >C12-C35	**2070**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2070**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*108 %*	*70-130*		"	"	"	"	
BH-7 (10-11') (4E21002-40) Soil									
Gasoline Range Organics C6-C12	**521**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1760**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2280**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*116 %*	*70-130*		"	"	"	"	
BH-7 (30-31') (4E21002-42) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE42701	05/25/04	05/26/04	EPA 8021B	
Toluene	**0.194**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.116**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.32**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.01**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**843**	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2530**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3370**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*128 %*	*70-130*		"	"	"	"	

Raland K. Tuttle

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-8 (5-6') (4E21002-43) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	**42.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**42.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	
BH-8 (10-11') (4E21002-44) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42101	05/21/04	05/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (15-16') (4E21002-02) Soil									
% Solids	**92.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-1 (30-31') (4E21002-05) Soil									
% Solids	**96.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-1 (50-51') (4E21002-09) Soil									
% Solids	**89.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (15-16') (4E21002-11) Soil									
% Solids	**94.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (30-31') (4E21002-13) Soil									
% Solids	**96.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (50-51') (4E21002-15) Soil									
% Solids	**93.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-2 (80-81') (4E21002-18) Soil									
% Solids	**93.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (15-16') (4E21002-19) Soil									
% Solids	**93.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (30-31') (4E21002-21) Soil									
% Solids	**92.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-3 (50-51') (4E21002-23) Soil									
% Solids	**92.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-3 (70-71') (4E21002-25) Soil									
% Solids	**95.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (15-16') (4E21002-26) Soil									
% Solids	**92.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (30-31') (4E21002-28) Soil									
% Solids	**96.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-4 (70-71') (4E21002-30) Soil									
% Solids	**96.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (10-11') (4E21002-31) Soil									
Chloride	**2760**	20.0	mg/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	**92.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (15-16') (4E21002-32) Soil									
Chloride	**744**	20.0	mg/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	**95.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-5 (20-21') (4E21002-33) Soil									
Chloride	**723**	20.0	mg/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	

Roland K Tuttle
Quality Assurance Review

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-5 (30-31') (4E21002-34) Soil									
Chloride	**304**	20.0	mg/kg Wet	2	EE42405	05/21/04	05/22/04	SW 846 9253	
% Solids	**96.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-6 (5-6') (4E21002-35) Soil									
% Solids	**94.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-6 (10-11') (4E21002-36) Soil									
% Solids	**93.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-6 (30-31') (4E21002-38) Soil									
% Solids	**98.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (5-6') (4E21002-39) Soil									
% Solids	**93.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (10-11') (4E21002-40) Soil									
% Solids	**94.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-7 (30-31') (4E21002-42) Soil									
% Solids	**97.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-8 (5-6') (4E21002-43) Soil									
% Solids	**90.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	
BH-8 (10-11') (4E21002-44) Soil									
% Solids	**94.0**		%	1	EE42402	05/21/04	05/21/04	% calculation	

Quality Assurance Review

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42101 - Solvent Extraction (GC)										
Blank (EE42101-BLK1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*36.2*		*mg/kg*	*50.0*		*72.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.0*		*"*	*50.0*		*80.0*	*70-130*			
Blank (EE42101-BLK2)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*38.6*		*mg/kg*	*50.0*		*77.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.8*		*"*	*50.0*		*75.6*	*70-130*			
LCS (EE42101-BS1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125			
Diesel Range Organics >C12-C35	482	10.0	"	500		96.4	75-125			
Total Hydrocarbon C6-C35	890	10.0	"	1000		89.0	75-125			
Surrogate: 1-Chlorooctane	*46.8*		*mg/kg*	*50.0*		*93.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		*"*	*50.0*		*72.6*	*70-130*			
LCS (EE42101-BS2)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	406	10.0	mg/kg wet	500		81.2	75-125			
Diesel Range Organics >C12-C35	478	10.0	"	500		95.6	75-125			
Total Hydrocarbon C6-C35	884	10.0	"	1000		88.4	75-125			
Surrogate: 1-Chlorooctane	*48.8*		*mg/kg*	*50.0*		*97.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		*"*	*50.0*		*72.4*	*70-130*			
LCS Dup (EE42101-BSD1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125	0.00	20	
Diesel Range Organics >C12-C35	494	10.0	"	500		98.8	75-125	2.46	20	
Total Hydrocarbon C6-C35	902	10.0	"	1000		90.2	75-125	1.34	20	
Surrogate: 1-Chlorooctane	*46.5*		*mg/kg*	*50.0*		*93.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.7*		*"*	*50.0*		*75.4*	*70-130*			

Quality Assurance Review

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42101 - Solvent Extraction (GC)										
Calibration Check (EE42101-CCV1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35	482		"	500		96.4	80-120			
Total Hydrocarbon C6-C35	902		"	1000		90.2	80-120			
Surrogate: 1-Chlorooctane	*52.6*		*"*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.0*		*"*	*50.0*		*90.0*	*70-130*			
Matrix Spike (EE42101-MS2)		**Source: 4E21002-44**		Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	467	10.0	mg/kg dry	532	ND	87.8	75-125			
Diesel Range Organics >C12-C35	532	10.0	"	532	ND	100	75-125			
Total Hydrocarbon C6-C35	999	10.0	"	1060	ND	94.2	75-125			
Surrogate: 1-Chlorooctane	*59.0*		*mg/kg*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.4*		*"*	*50.0*		*92.8*	*70-130*			
Matrix Spike Dup (EE42101-MSD2)		**Source: 4E21002-44**		Prepared: 05/21/04 Analyzed: 05/22/04						
Gasoline Range Organics C6-C12	500	10.0	mg/kg dry	532	ND	94.0	75-125	6.83	20	
Diesel Range Organics >C12-C35	555	10.0	"	532	ND	104	75-125	4.23	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1060	ND	100	75-125	5.93	20	
Surrogate: 1-Chlorooctane	*62.2*		*mg/kg*	*50.0*		*124*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.9*		*"*	*50.0*		*95.8*	*70-130*			
Batch EE42701 - EPA 5030C (GC)										
Blank (EE42701-BLK1)				Prepared & Analyzed: 05/25/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*102*		*ug/kg*	*100*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		*"*	*100*		*104*	*80-120*			

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42701 - EPA 5030C (GC)										
LCS (EE42701-BS1)				Prepared & Analyzed: 05/25/04						
Benzene	89.2		ug/kg	100		89.2	80-120			
Toluene	86.9		"	100		86.9	80-120			
Ethylbenzene	86.3		"	100		86.3	80-120			
Xylene (p/m)	170		"	200		85.0	80-120			
Xylene (o)	85.6		"	100		85.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*106*		"	*100*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			
Calibration Check (EE42701-CCV1)				Prepared: 05/25/04 Analyzed: 05/26/04						
Benzene	84.9		ug/kg	100		84.9	80-120			
Toluene	82.9		"	100		82.9	80-120			
Ethylbenzene	82.4		"	100		82.4	80-120			
Xylene (p/m)	163		"	200		81.5	80-120			
Xylene (o)	81.9		"	100		81.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	*103*		"	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.8*		"	*100*		*99.8*	*80-120*			
Matrix Spike (EE42701-MS1)		**Source: 4E21010-04**		Prepared: 05/25/04 Analyzed: 05/26/04						
Benzene	87.4		ug/kg	100	ND	87.4	80-120			
Toluene	86.1		"	100	ND	86.1	80-120			
Ethylbenzene	88.0		"	100	ND	88.0	80-120			
Xylene (p/m)	175		"	200	ND	87.5	80-120			
Xylene (o)	85.0		"	100	ND	85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*110*		"	*100*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*107*		"	*100*		*107*	*80-120*			
Matrix Spike Dup (EE42701-MSD1)		**Source: 4E21010-04**		Prepared: 05/25/04 Analyzed: 05/26/04						
Benzene	80.3		ug/kg	100	ND	80.3	80-120	8.47	20	
Toluene	80.3		"	100	ND	80.3	80-120	6.97	20	
Ethylbenzene	82.1		"	100	ND	82.1	80-120	6.94	20	
Xylene (p/m)	163		"	200	ND	81.5	80-120	7.10	20	
Xylene (o)	82.0		"	100	ND	82.0	80-120	3.59	20	
Surrogate: a,a,a-Trifluorotoluene	*92.3*		"	*100*		*92.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*97.0*		"	*100*		*97.0*	*80-120*			

Roland K Tuttle

Quality Assurance Review

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42402 - General Preparation (Prep)										
Blank (EE42402-BLK1)				Prepared & Analyzed: 05/21/04						
% Solids	100		%							
Duplicate (EE42402-DUP1)		**Source: 4E21001-01**		Prepared & Analyzed: 05/21/04						
% Solids	86.0		%		86.0			0.00	20	
Batch EE42405 - Water Extraction										
Blank (EE42405-BLK1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EE42405-MS1)		**Source: 4E20002-42**		Prepared: 05/21/04 Analyzed: 05/22/04						
Chloride	1360	20.0	mg/kg Wet	500	936	84.8	80-120			
Matrix Spike Dup (EE42405-MSD1)		**Source: 4E20002-42**		Prepared: 05/21/04 Analyzed: 05/22/04						
Chloride	1380	20.0	mg/kg Wet	500	936	88.8	80-120	1.46	20	
Reference (EE42405-SRM1)				Prepared: 05/21/04 Analyzed: 05/22/04						
Chloride	5000		mg/kg	5000		100	80-120			

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

PAGE: 1 OF: 5

CLIENT NAME: Pogo Producing SITE MANAGER: Mike Tavarez

PROJECT NO.: 1746 PROJECT NAME: E.C. Pogo Hill Aco B Tank Battery Lea 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)	Attached
HE 26002																														
01	5/13/04		S		✓	BH-1 (10-11')	1				✓																			
02			S		✓	BH-1 (15-16')	1				✓				X															
03			S		✓	BH-1 (20-21')	1				✓																			
04			S		✓	BH-1 (25-26')	1				✓																			
05			S		✓	BH-1 (30-31')	1				✓				X															
06			S		✓	BH-1 (35-36')	1				✓																			
07			S		✓	BH-1 (40-41')	1				✓																			
08			S			BH-1 (45-46')	1				✓																			
09			S		✓	BH-1 (50-51')	1				✓		X		X															
10			S		✓	BH 2 (10-11')					✓																			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 5/20/04 Time: RECEIVED BY: (Signature) Date: Time: SAMPLED BY: (Print & Sign) Mike Tavarez Date: Time:

RELINQUISHED BY: (Signature) Date: Time: RECEIVED BY: (Signature) Date: Time: SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

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

RECEIVING LABORATORY: RECEIVED BY: (Signature) Raleah Lyon

ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE: DATE: 5-20-04 TIME: 1720

HIGHLANDER CONTACT PERSON: Mike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Rec 3.0°C

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

REMARKS: Bill for 1,2,3,4,5,6,7), run (1) BTEX w/ highest TPH level from each BH

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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: Pogo Producing SITE MANAGER: Mike Taylor

PROJECT NO.: 1746 PROJECT NAME: Pogo / E.C. Hill TB. Lea 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. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
4E21002																													
11	5/13/04		S		G	BH-2 (15-16')	1				✓				X														
12			S		G	BH-2 (20-21)	1				✓																		
13			S		G	BH-2 (30-31)	1				✓				X														
14			S		G	BH-2 (40-41)	1				✓																		
15			S		G	BH-2 (50-51)	1				✓				X														
16			S		G	BH-2 (60-61)	1				✓																		
17			S		G	BH-2 (70-71')	1				✓																		
18			S		G	BH-2 (80-81')	1				✓		X		X														
19	5/14/04		S		G	BH-3 (15-16)	1				✓				X														
20	5/14/04		S		G	BH-3 (20-21')	1				✓																		

RELINQUISHED BY: (Signature) Date: 5/20/04 Time: _____ 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) Mike Taylor Date: _____ Time: _____

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

RECEIVING LABORATORY: ECOT ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____ CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature) _____ DATE: 5-20-04 TIME: 1720

HIGHLANDER CONTACT PERSON: Mike Taylor

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Rec 3.0 C

MATRIX: W-Water A-Air SD-Solid S-Sol 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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: Pogo Producing. SITE MANAGER: Mike Tavarez

PROJECT NO.: 1746 PROJECT NAME: Pogo / E.C. Hill A: B TB Lea 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)
H21002 21	5/14/04		S			BH-3 (30-31)	1				-				X														
22			S			BH-3 (40-41)	1				-																		
23			S			BH-3 (50-51)	1				-				X														
24			S			BH-3 (60-61)	1				-																		
25			S			BH-3 (70-71)	1				-		X		X														
26			S			BH-4 (15-16)	1				-		X		X														
27			S			BH-4 (20-21)	1				-																		
28			S			BH-4 (30-31)	1				-				X														
29			S			BH-4 (50-51)	1				-																		
30			S			BH-4 (70-71)	1				-				X														

RELINQUISHED BY: (Signature) Date: 5/20/04 Time: RECEIVED BY: (Signature) Date: Time: SAMPLED BY: (Print & Sign) Mike Tavarez Date: Time:

RELINQUISHED BY: (Signature) Date: Time: RECEIVED BY: (Signature) Date: Time: SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:

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

RECEIVING LABORATORY: ECOT ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) DATE: 5-20-04 TIME: 1720

HIGHLANDER CONTACT PERSON: Mike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Rec 3.0°C

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 Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

PAGE: 4 OF: 5

CLIENT NAME: Pogo Producing SITE MANAGER: Ike Tavarez

PROJECT NO.: 1746 PROJECT NAME: Pogo E.C. Hill A&B TB Lea. 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 (9015 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)	Chlorides
E21002																														
31	5/14/04		S		G	BH-5 (10-11')	1				ICE				X														X	
32			S		G	BH-5 (15-16)	1				ICE		X		X														X	
33			S		G	BH-5 (20-21)	1				ICE																		X	
34			S		G	BH-5 (30-31)	1				ICE				X														X	
35			S		G	BH-6 (5-6)	1				ICE				X															
36			S		G	BH-6 (10-11)	1				ICE				X															
37			S		G	BH-6 (20-21)	1				ICE																			
38			S		G	BH-6 (30-31)	1				ICE		X		X															
39	5/17/04		S		G	BH-7 (5-6)	1				ICE				X															
40	5/17/04		S		G	BH-7 (10-11')	1				ICE				X															

RELINQUISHED BY: (Signature)	Date: 5/20/04 Time:	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: Envirotech TA ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:		RECEIVED BY: (Signature) DATE: 5-20-04 TIME: 1720	

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

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

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Ice 3.0°C

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

REMARKS: 1

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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: Pogo Producing. SITE MANAGER: HE Tavarez

PROJECT NO.: 1746 PROJECT NAME: Pogo / E.C. Hill A & B Tb 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)
E21002 41	5/17/04		S		G	BH-7 (20-21)	1				✓																		
42			S		G	BH-7 (30-31)	1				✓		X		X														
43			S		G	BH-8 (5-6)	1				✓				X														
44			S		G	BH-8 (10-11)	1				✓				X														
45			S		G	BH-8 (20-21)	1				✓																		
46			S		G	BH-8 (30-31)	1				✓																		

RELINQUISHED BY: (Signature) Date: 5/20/04 Time: _____ RECEIVED BY: (Signature) Date: _____ Time: _____ SAMPLED BY: (Print & Sign) HE Tavarez Date: _____ Time: _____

RELINQUISHED BY: (Signature) Date: _____ Time: _____ RECEIVED BY: (Signature) Date: _____ Time: _____ SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # _____ HAND DELIVERED UPS OTHER: _____

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

RECEIVING LABORATORY: Cardinal Lab TX. ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____ CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature) Rebecca DATE: 5-20-04 TIME: 1720

HIGHLANDER CONTACT PERSON: HE Tavarez

Results by: _____

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Rec 3.0°

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.

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Pogo/ E.C. Hill A & B TB
Project Number: 1746
Location: Lea Co. NM.

Lab Order Number: 4C09001

Report Date: 03/17/04

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	03/17/04 09:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 (9.0)	4C09001-04	Soil	02/20/04 00:00	02/24/04 16:50

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	03/17/04 09:12

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (9.0) (4C09001-04)									
Chloride	**1040**	20.0	mg/kg Wet	2	EC41502	03/15/04	03/16/04	SW 846 9253	

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41502 - Water Extraction										
Blank (EC41502-BLK1)				Prepared: 03/15/04 Analyzed: 03/16/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EC41502-MS3)		Source: 4C12017-18		Prepared: 03/15/04 Analyzed: 03/16/04						
Chloride	510	20.0	mg/kg Wet	500	0.00	102	80-120			
Matrix Spike Dup (EC41502-MSD3)		Source: 4C12017-18		Prepared: 03/15/04 Analyzed: 03/16/04						
Chloride	500	20.0	mg/kg Wet	500	0.00	100	80-120	1.98	20	
Reference (EC41502-SRM1)				Prepared: 03/15/04 Analyzed: 03/16/04						
Chloride	5050		mg/kg	5000		101	80-120			

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Pogo/ E.C. Hill A & B TB

Project Number: 1746

Location: Lea Co. NM.

Lab Order Number: 4C09001

Report Date: 03/11/04

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	03/11/04 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 (3.0')	4C09001-01	Soil	02/20/04 00:00	02/24/04 16:50
T-1 (7.0')	4C09001-02	Soil	02/20/04 00:00	02/24/04 16:50
T-9 (0-1')	4C09001-03	Soil	02/20/04 00:00	02/24/04 16:50

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-9 (0-1') (4C09001-03)									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC40903	03/09/04	03/09/04	EPA 8015M	I-02
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	I-02
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	I-02
Surrogate: 1-Chlorooctane		*97.2 %*	*70-130*		"	"	"	"	*I-02*
Surrogate: 1-Chlorooctadecane		*94.6 %*	*70-130*		"	"	"	"	*I-02*

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Highlander Environmental Corp.	Project: Pogo/ E.C. Hill A & B TB	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 1746	**Reported:**
Midland TX, 79705	Project Manager: Ike Tavarez	03/11/04 16:56

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (3.0') (4C09001-01)									
Chloride	**2550**	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
T-1 (7.0') (4C09001-02)									
Chloride	**2020**	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
T-9 (0-1') (4C09001-03)									
Chloride	**234**	20.0	mg/kg Wet	2	EC41101	03/09/04	03/11/04	SW 846 9253	
% Solids	**89.0**		%	1	EC41004	03/09/04	03/10/04	% calculation	

Environmental Lab of Texas

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40903 - Solvent Extraction (GC)										
Blank (EC40903-BLK1)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*38.9*		*mg/kg*	*50.0*		*77.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.4*		*"*	*50.0*		*76.8*	*70-130*			
Blank (EC40903-BLK2)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.4*		*mg/kg*	*50.0*		*80.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.8*		*"*	*50.0*		*85.6*	*70-130*			
LCS (EC40903-BS1)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	396		mg/kg	500		79.2	75-125			
Diesel Range Organics >C12-C35	504		"	500		101	75-125			
Total Hydrocarbon C6-C35	900		"	1000		90.0	75-125			
Surrogate: 1-Chlorooctane	*53.8*		*"*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.2*		*"*	*50.0*		*88.4*	*70-130*			
LCS (EC40903-BS2)				Prepared: 03/09/04 Analyzed: 03/10/04						
Gasoline Range Organics C6-C12	408	10.0	mg/kg wet	500		81.6	75-125			
Diesel Range Organics >C12-C35	473	10.0	"	500		94.6	75-125			
Total Hydrocarbon C6-C35	881	10.0	"	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	*54.7*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.6*		*"*	*50.0*		*89.2*	*70-130*			
Calibration Check (EC40903-CCV1)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	443		mg/kg	500		88.6	80-120			
Diesel Range Organics >C12-C35	519		"	500		104	80-120			
Total Hydrocarbon C6-C35	962		"	1000		96.2	80-120			
Surrogate: 1-Chlorooctane	*59.8*		*"*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.1*		*"*	*50.0*		*96.2*	*70-130*			

Quality Assurance Review

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC40903 - Solvent Extraction (GC)										
Calibration Check (EC40903-CCV2)				Prepared & Analyzed: 03/09/04						
Gasoline Range Organics C6-C12	437		mg/kg	500		87.4	80-120			
Diesel Range Organics >C12-C35	527		"	500		105	80-120			
Total Hydrocarbon C6-C35	964		"	1000		96.4	80-120			
Surrogate: 1-Chlorooctane	*59.2*		"	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.4*		"	*50.0*		*96.8*	*70-130*			
Matrix Spike (EC40903-MS1)		**Source: 4C09001-03**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	496		mg/kg	500	ND	99.2	75-125			
Diesel Range Organics >C12-C35	518		"	500	ND	104	75-125			
Total Hydrocarbon C6-C35	1010		"	1000	ND	101	75-125			
Surrogate: 1-Chlorooctane	*55.2*		"	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.9*		"	*50.0*		*99.8*	*70-130*			
Matrix Spike (EC40903-MS2)		**Source: 4C09008-01**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	527	10.0	mg/kg dry	538	ND	98.0	75-125			
Diesel Range Organics >C12-C35	774	10.0	"	538	203	106	75-125			
Total Hydrocarbon C6-C35	1300	10.0	"	1080	203	102	75-125			
Surrogate: 1-Chlorooctane	*57.6*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.2*		"	*50.0*		*100*	*70-130*			
Matrix Spike Dup (EC40903-MSD1)		**Source: 4C09001-03**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	476		mg/kg	500	ND	95.2	75-125	4.12	20	
Diesel Range Organics >C12-C35	537		"	500	ND	107	75-125	3.60	20	
Total Hydrocarbon C6-C35	1010		"	1000	ND	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*55.2*		"	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.9*		"	*50.0*		*99.8*	*70-130*			
Matrix Spike Dup (EC40903-MSD2)		**Source: 4C09008-01**		Prepared: 03/09/04		Analyzed: 03/10/04				
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	538	ND	97.0	75-125	0.953	20	
Diesel Range Organics >C12-C35	777	10.0	"	538	203	107	75-125	0.387	20	
Total Hydrocarbon C6-C35	1300	10.0	"	1080	203	102	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*57.0*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.2*		"	*50.0*		*100*	*70-130*			

Quality Assurance Review

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC41004 - % Solids										
Blank (EC41004-BLK1)				Prepared: 03/09/04 Analyzed: 03/10/04						
% Solids	100		%							
Duplicate (EC41004-DUP1)		**Source: 4C08007-03**		Prepared: 03/09/04 Analyzed: 03/10/04						
% Solids	90.0		%		90.0			0.00	20	
Batch EC41101 - Water Extraction										
Blank (EC41101-BLK1)				Prepared: 03/09/04 Analyzed: 03/11/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EC41101-MS1)		**Source: 4C09001-01**		Prepared: 03/09/04 Analyzed: 03/11/04						
Chloride	3010	20.0	mg/kg Wet	500	2550	92.0	80-120			
Matrix Spike Dup (EC41101-MSD1)		**Source: 4C09001-01**		Prepared: 03/09/04 Analyzed: 03/11/04						
Chloride	3020	20.0	mg/kg Wet	500	2550	94.0	80-120	0.332	20	

Notes and Definitions

I-02	This result was analyzed outside of the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Quality Assurance Review

jtavarez@HEC-enviro.com

Analysis Request and Chain of Custody Record

PAGE: 1 OF: 7

ANALYSIS REQUEST (Circle or Specify Method No.)

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705
(915) 682-4559 Fax (915) 682-3946

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

PROJECT NO.: 1746 PROJECT NAME: Pogo / E.C. Hill A & B TB. Lea Co. NM.

LAB I.D. NUMBER (4C09001)	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	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. 808/608	BOD, TSS, pH, TDS, Chlorides	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
-01	2/20/04		S		✓	T-1 (0-1)	1				✓				X											X			
-02	↓		S		✓	T-1 (2.0')	1				✓																		
~~-03~~ -01			S		✓	T-1 (5.0')	1				✓															X			
-04			S		✓	T-1 (5.0')	1				✓																		
~~-05~~ -02			S		✓	T-1 (7.0')	1				✓															X			
~~-06~~ -04			S		✓	T-1 (9.0')	1				✓															X	Add 03-12-04 per Ike		
-07			S		✓	T-2 (0-1)	1				✓				X											X			
-08			S		✓	T-2 (3.0')	1				✓																		
-09			S		✓	T-2 (5.0')	1				✓																		
-10	↓		S		✓	T-2 (7.0')	1				✓																		

RELINQUISHED BY: (Signature) [signature] Date: 2/24/04 Time: [illegible]
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:

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

RECEIVING LABORATORY: ELT.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) [signature]
DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W–Water A–Air SD–Solid (S–Soil) SL–Sludge O–Other

REMARKS: Run (3) BTEX on the highest TPH samples (0-1'), run deeper samples if TPH exceed 1,000 mg/kg.

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.

2-8-04 Add Analysis - [illegible] Rec 2°C Hold time expired for TPH

Analysis Request and Chain of Custody Record

PAGE: 2 OF: 7

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: Pogo Producing Co. SITE MANAGER: T.E. Tarver

PROJECT NO.: 1746 PROJECT NAME: Pogo/E.C. Hill AEB TB

Loc Corty, NM.

4C09001

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
~~48~~ 25003 -11	2/20/04		S		-	T-3 (0-1')	1				✓	
-12			S		-	T-3 (3.0')	1				✓	
-13			S		-	T-3 (5.0')	1				✓	
-14			S		-	T-3 (7.0')	1				✓	
-15			S		-	T-3 (9.0')	1				✓	
-16			S		-	T-4 (0-1')	1				✓	
-17			S		-	T-4 (3.0')	1				✓	
-18			S		-	T-4 (5.0')	1				✓	
-19			S		-	T-4 (7.0')	1				✓	
-20			S		-	T-5 (0-1')	1				✓	

ANALYSIS REQUEST (Circle or Specify Method No.)

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. 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			

RELINQUISHED BY: (Signature) Date: 2/24/04 Time: 0:50 RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) T.E. Tarver Date: Time:

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

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #

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

HAND DELIVERED UPS OTHER:

RECEIVING LABORATORY: ELT

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: T.E. Tarver

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: Rec 2°C

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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

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

PROJECT NO.: 1746 PROJECT NAME: Pogo E.C. Hill U. A #3 TB

4C 09001 / HB 25003

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
-21	2/20/04		S			T-5 (3.0')	1				✓	
-22			S			T-5 (5.0')	1				✓	
-23			S			T-5 (7.0')	1				✓	
-24			S			T-6 (0-1')	1				✓	
-25			S			T-6 (3.0')	1				✓	
-26			S			T-6 (5.0')	1				✓	
-27			S			T-6 (7.0')	1				✓	
-28			S			T-6 (9.0')	1				✓	
-29			S			T-7 (0-1)	1				✓	
-30			S			T-7 (3.0')	1				✓	

ANALYSIS REQUEST (Circle or Specify Method No.)

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)
X		X											X			
		X	1													

RELINQUISHED BY: (Signature) Date: 2/24/04 Time: 4:50 — 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) Ike Tavarez Date: Time:

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

RECEIVING LABORATORY: ECT ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) Kal. DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: Lic 24

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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

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

PROJECT NO.: 1746 PROJECT NAME: Pogo / F.C. Hill A C B TB Lea County, NM.

4C 4B 03

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	TPH 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	ECI	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)
25003																														
-31	2/20/04		S		G	T-7 (5.0')	1				✓				X															
-32			S		G	T-7 (7.0')	1				✓																			
-33			S		G	T-8 (0-1)	1				✓				X												X			
-34			S		G	T-8 (3.0')	1				✓																			
-35			S		G	T-8 (5.0')	1				✓																			
~~-36~~			S		G	T-9 (0-1)	1				✓				X												X			
-37			S		G	T-9 (3.0')	1				✓																			
-38			S		G	T-9 (5.0')	1				✓																			
-39			S		G	T-10 (0-1)	1				✓		X		X												X			
-40			S		G	T-10 (3.0')	1				✓				X															

RELINQUISHED BY: (Signature) Date: 2/24/04 Time: 4:50 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) K. Tavarez Date: Time:

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

RECEIVING LABORATORY: ECT ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) Kal. dk DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: K. Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: Lee 2C

Original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

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

PROJECT NO.: 1744 PROJECT NAME: Pogo / E.C. Hill A #B. Lea County, NM. TB.

4C 04001
48 25003

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	ECI	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)
-41	2/20/04		S		G	T-10 (5.0')	1				✓				X														
-42			S		G	T-10 (7.0')	1				✓				X														
-43			S		G	T-10 (9.6')	1				✓				X														
-44			S		G	T-11 (0-1)	1				✓				X											X			
-45			S		G	T-11 (3.0')	1				✓																		
-46			S		G	T-11 (5.0')	1				✓																		
-47			S		G	T-12 (0-1)	1				✓				X											X			
48			S		G	T-12 (3.0')	1				✓																		
-49			S		G	T-12 (5.0')	1				✓																		
-50			S		G	T-13 (0-1)	1				✓		X		X											X			

RELINQUISHED BY: (Signature) Date: 2/24/04 Time: 4:30 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 BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RECEIVING LABORATORY: ETI. ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) Robert Ike DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: Mike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: Ice 20C

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.

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. Big Spring St.
Midland, Texas 79705
(915) 682-4559 Fax (915) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: Pogo Producing Co.
SITE MANAGER: Ike Tavarez
PROJECT NO.:
PROJECT NAME: Pogo / E.C. Hill A-8 TB Lea County, NM.

LAB I.D. NUMBER: 4C 09001 (4B 25003 crossed out)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	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. 808/608	BOD, TSS, pH, TDS, (Chloride)	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
-51	2/20/04		S		✓	T-13 (3.0')	1				✓				X														
-52	↓		S		✓	T-13 (5.0')	1				✓				X														
-53			S		✓	T-13 (7.0')	1				✓				X														
-54			S		✓	T-13 (9.0')	1				✓				X														
-55			S		✓	T-14 (0-1)	1				✓				X												X			
-56			S		✓	T-14 (3.0')	1				✓																			
-57			S		✓	T-14 (5.0')	1				✓																			
-58			S		✓	T-15 (0-1)	1				✓				X												X			
-59			S		✓	T-15 (3.0')	1				✓																			
-60	↓		S		✓	T-15 (5.0')	1				✓																			

RELINQUISHED BY: (Signature) [signature] Date: 2/24/04 Time: 4:50
RECEIVED BY: (Signature) Date: Time:
SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL # HAND DELIVERED UPS OTHER:

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

RECEIVING LABORATORY: ECT.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) [signature]
DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:
MATRIX: W-Water A-Air SD-Solid (S-Soil) SL-Sludge O-Other
REMARKS: rec 2°C

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

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: Pogo Producing Co. SITE MANAGER: M.E. Tavarez

PROJECT NO.: 1946 PROJECT NAME: Pogo E.C. Hill A #3 TB.

4C 09001 48 ~~25003~~

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
-61	2/20/04		S		✓	T-15 (7.0')	1				1	

ANALYSIS REQUEST (Circle or Specify Method No.)

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. 808/608 | BOD, TSS, pH, TDS, Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos)

RELINQUISHED BY: (Signature) Date: 2/24/04 Time: 4:50 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) M.E. Tavarez Date: Time:

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

RECEIVING LABORATORY: ECT

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Rebecca Jones

DATE: 2-24-04 TIME: 1650

HIGHLANDER CONTACT PERSON: M.E. Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

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

REMARKS: Rec 2C

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.

Highlander Environmental Corp.

Midland, Texas

FAX

DATE: 3-8-04

TO: Jeanne

WITH: Environmental Lab of Texas

FAX : 1-(432) 563-1713

FROM: Ike Tavarez

WITH: Highlander Environmental Corp.
Midland, Texas

PAGES:
(including Fax cover)

Description:

Request additional analysis: Lab. Order # 4B25003

Pogo Producing Company – (1746) E.C. Hill Tank Battery, Lea County, New Mexico

Run: T-9 (0-1') - TPH and chloride

Run: T-1 (3.0') - chloride
T-1 (7.0') - chloride

Please call me if you have any questions, Thanks

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(432) 682-4559
e-mail: itavarez@hec-enviro.com