



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

October 11, 2005

Mr. Pat Ellis EllisP@pogoproducing.com
Pogo Producing Company
300 N. Marienfield
Midland, TX 79701-7340

Re: Pogo Fed. 27 #1 Closure Workplan
 Site Location: UL-O, Sec 27 – T22S - R32E
 Workplan Dated: September 29, 2005

Dear Mr. Ellis,

The New Mexico Oil Conservation Division (OCD) reviewed the above referenced plan submitted by your agent, Highlander Environmental Corp. (HEC). Based on information provided, the plan is **hereby approved** until November 15, 2005. Once this operation is completed, please submit a final report signed by you, the responsible party, so it can be closed in the records.

Please be advised that OCD approval does not relieve Pogo Producing Company of responsibility should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Pogo Producing Company of responsibility for compliance with any federal, state or local laws and/or regulations. If you have any questions or need assistance please call me at (505) 393-6161, x111 or e-mail larry.johnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

CC: Roger Anderson - Environmental Bureau Chief
 Chris Williams - District I Supervisor
 Paul Sheeley - Environmental Engineer

Johnson, Larry, EMNRD

To... EllisP@pogoproducing.com

Cc...

Bcc...

Subject: Pogo Fed 27#1 Approval

Attachments:

Pat,

Attached is approval to complete the Fed 27 spill. Please note the deadline and that you, POGO, will be responsible for submittal of the final closure report as your signature is required. This approval is being submitted to you for distribution to your agent.

Thanks,

Larry

SITE INFORMATION

General Site Information:

Site:	Federal 27 #1 Tank Battery
Company:	Pogo Producing Company
Section, Township and Range	Section 27, T22S, R32 E
Unit Letter:	O
Lease Number:	
County:	Lea
GPS:	32° 21' 22.0", 103° 39' 48.5"
Surface Owner:	Federal Land
Mineral Owner:	
Directions:	From Jal at the intersection of Hwy's 18 & 128, travel west on 128 for 35 miles, past MM 18 to Red Road. Go north on Red Road for 7.4 miles to Mills Ranch Road. Take right and go 5.2 miles. At the green tank, take right on lease road, travel 1.4 miles to TB on right side of the road.

Release Data:

Date Released:	7/6/2005
Type Release:	Produced Water
Source of Contamination:	Hole in piping
Fluid Released:	98 bbl.
Fluids Recovered:	96 bbl.

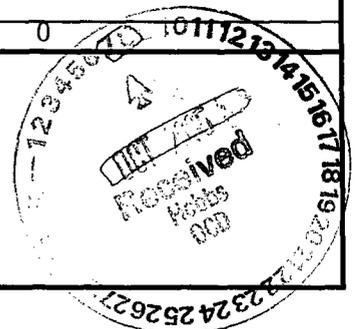
Official Communication:

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	0
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	0	

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000





Highlander Environmental Corp.

Midland, Texas

IRP-217
10.26.05

September 29, 2005

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Assessment and Closure Report for the Pogo Producing Company, Federal 27 #1 Tank Battery, Unit Letter O, Section 27, T-22-S, R-32-E, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill, which occurred from a hole in piping at the Pogo Producing Company (Pogo) ~~Federal 27 #1 Tank Battery in Lea County, New Mexico~~ (Site). The Site is located in ~~Unit O, Section 27, Township 22 South, Range 32 East~~. The State of New Mexico C-141 (Initial) is included in Appendix C. The Site is shown in Figure 1.

Groundwater and Regulatory

According to the New Mexico Office of the State Engineer, WATERS database, the closest water wells were found in Sections 14 and 19, T-22-S, R-32-E, with reported average depths to water of ~~350' and 280'~~ below ground surface (bgs). The State of New Mexico Well Reports are included 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 on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Background

This spill occurred on ~~July 6, 2005~~, when a hole developed in ~~piping~~ due to ~~corrosion~~. A total of ~~98 barrels of produced water were released, with 96 barrels recovered.~~ All of the fluids were contained within the facility berm. The spill area is shown on Figure 2.

Inspection and Soil Sampling

Highlander personnel inspected and sampled the site on July 14, 2005. Highlander personnel collected soil samples using a stainless steel, bucket type hand auger. A total of three (3) auger holes (AH) were installed inside the facility berm to delineate subsurface impact. The auger hole locations are shown on Figure 2. All three auger holes were advanced to a depth of 10.0'-10.5'. Samples were collected for evaluation of Total Petroleum Hydrocarbon (TPH) by method 8015M, BTEX by method 8021B and chloride by method SW846-9253. The soil sample results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix B.

TPH concentrations exceeded the RRAL only in shallow soils from 0-1.0'. No BTEX concentrations exceeded the RRAL for any of the sample locations. Chloride concentrations were elevated at the surface and declined with depth to less than 500 mg/kg within 10' of the surface. The highest chloride concentrations were found in the 0-1' samples from AH-1 (10,500 mg/kg) and AH-3 (3680 mg/kg). The chloride concentrations from 1.0'-1.5' for AH-1 and AH-3, decreased to 904 mg/kg and 523 mg/kg, respectively.

Corrective Action

On September 8, 2005, Highlander supervised excavation of approximately 1.5' of impacted soil from inside the facility berm, in order to remove the TPH impacted soil, which exceeded the RRAL and to address the highest of the residual chloride impacted soils. The soil was placed on plastic on the site. Two confirmation samples and one stockpile sample were taken and analyzed for TPH. The confirmation samples were well below the TPH RRAL. The soil stockpile exceeded the RRAL. The soil stockpile will be removed and hauled to the Sundance Disposal Facility in Eunice, New Mexico.

Conclusions

Based on the confirmation samples collected from the excavation, TPH concentrations did not exceed the RRAL and no BTEX concentrations exceeded the RRAL for any of the sample locations. Chloride concentrations were elevated at the surface and declined with depth to less than 500 mg/kg.

Based on the depth to groundwater, the auger hole sample results and the remediation performed at this facility, Pogo requests closure of this site. The State of New Mexico C-141 (Final) is included in Appendix C.



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

Highlander Environmental Corp.,

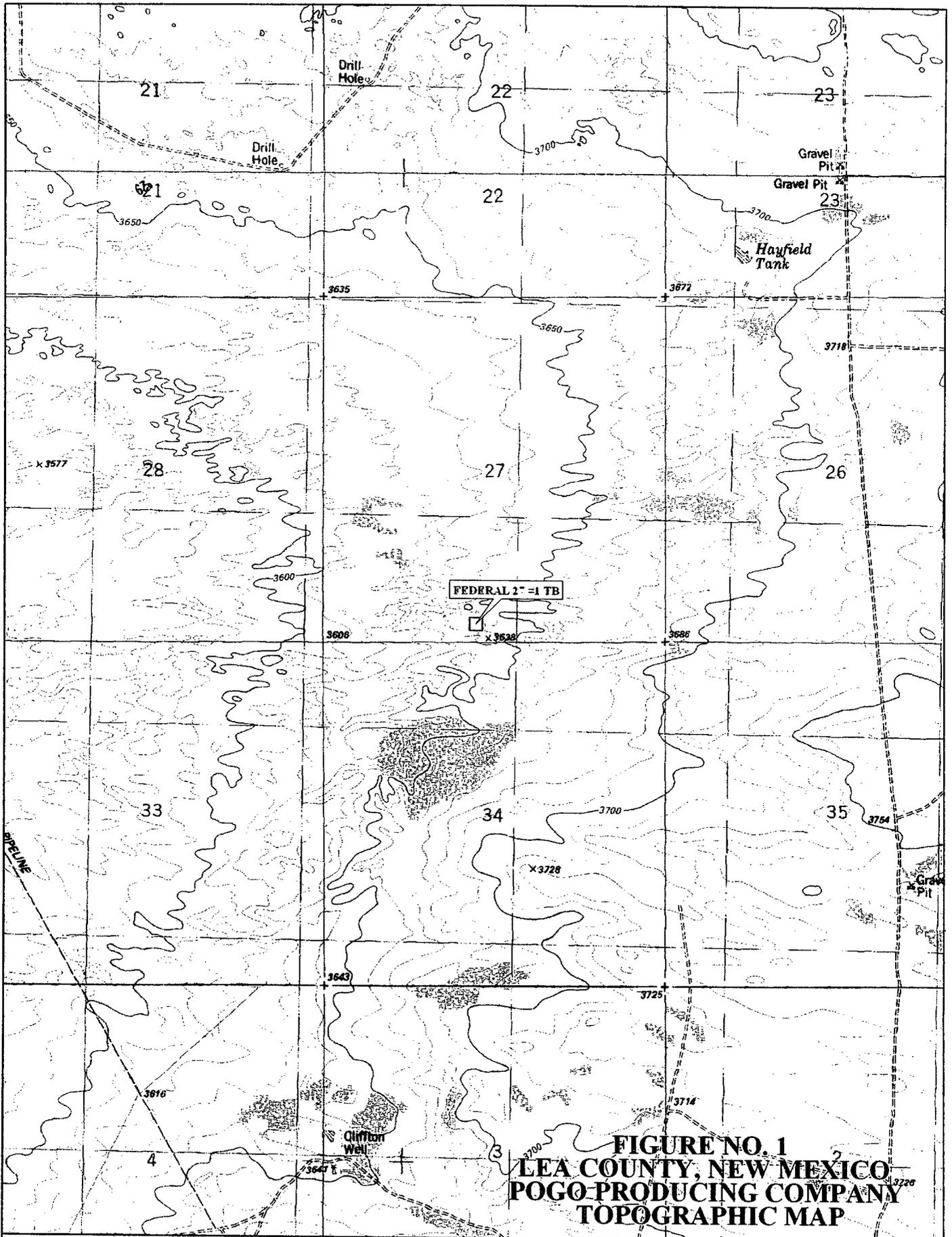
Tim Reed

Timothy M. Reed, P.G.
Vice President

cc: Don Riggs - Pogo Producing Co.
Pat Ellis - Pogo Producing Co.
Paul Evans - BLM



FIGURES

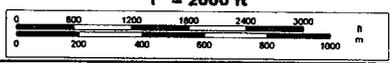


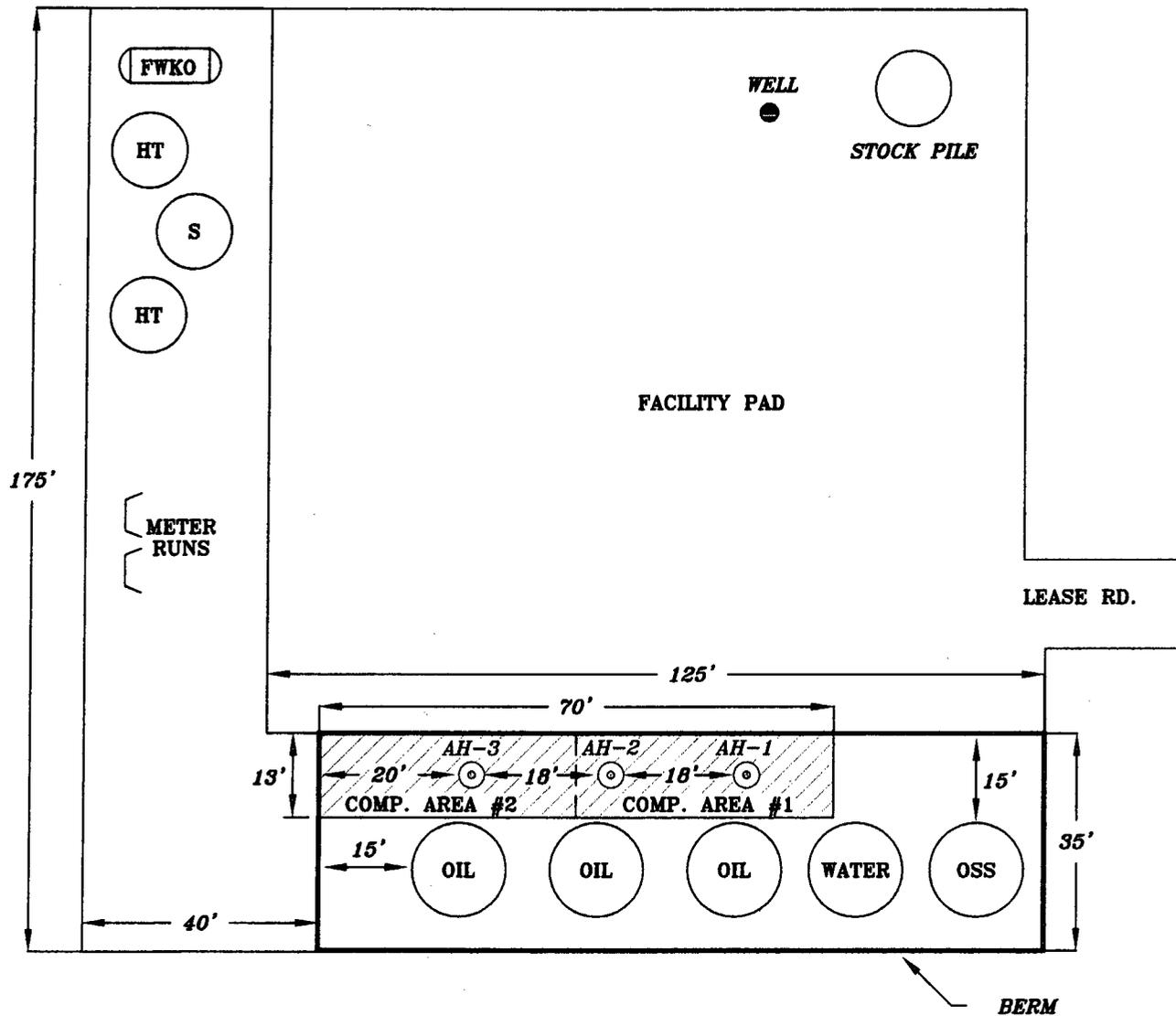
**FIGURE NO. 1
LEA COUNTY, NEW MEXICO
POGO-PRODUCING COMPANY
TOPOGRAPHIC MAP**



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www.delorme.com

Scale 1 : 24,000
1" = 2000 ft





- ⊙ SAMPLE LOCATION
- ▨ EXCAVATION AREA (1' TO 1.5' DEEP)

NOT TO SCALE

DATE:
10/3/05
DWN. BY:
JJ
FILE:
C:\PROGRA~1\ENVIRO~1\FED 27 #1 FIG 2

FIGURE NO. 2

LEA COUNTY, NEW MEXICO

POGO PRODUCING COMPANY
FEDERAL 27 #1 TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

TABLE

Table 1
Pogo Producing Co.
Federal 27 #1
Lea Co. 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)
			C6-C12	C12-C35	Total					
AH-1	7/14/2005	0-1	1,810	9,330	11,100	0.375	1.46	1.02	4.26	10,500
AH-1	7/14/2005	1-1.5	<50	1890	1890	-	-	-	-	904
AH-1	7/14/2005	2-2.5	-	-	-	-	-	-	-	736
AH-1	7/14/2005	3-3.5	-	-	-	-	-	-	-	420
AH-1	7/14/2005	4-4.5	-	-	-	-	-	-	-	210
AH-1	7/14/2005	5-5.5	-	-	-	-	-	-	-	231
AH-1	7/14/2005	7-7.5	-	-	-	-	-	-	-	328
AH-1	7/14/2005	10-10.5	-	-	-	-	-	-	-	500
AH-2	7/14/2005	0-1	1,450.0	6,950.0	8,040.0	0.405	0.788	0.637	1.9	753
AH-2	7/14/2005	1-1.5	499	3,190	3,690	-	-	-	-	1,460
AH-2	7/14/2005	2-2.5	-	-	-	-	-	-	-	1500
AH-2	7/14/2005	3-3.5	-	-	-	-	-	-	-	1520
AH-2	7/14/2005	4-4.5	-	-	-	-	-	-	-	1300
AH-2	7/14/2005	5-5.5	-	-	-	-	-	-	-	1020
AH-2	7/14/2005	7-7.5	-	-	-	-	-	-	-	343
AH-2	7/14/2005	10-10.5	-	-	-	-	-	-	-	360
AH-3	7/14/2005	0-1	2,290	9,250	11,500	1.09	3.10	3.50	12.14	3,680
AH-3	7/14/2005	1-1.5	599.0	3,350.0	3,950.0	-	-	-	-	523
AH-3	7/14/2005	2-2.5	-	-	-	-	-	-	-	358
#1 Composite	9/8/2005	1.5'	<10.0	500	500	-	-	-	-	-
#2 Composite	9/8/2005	1.5'	89	1,150	1,240	-	-	-	-	-
Stockpile	9/8/2005	composite	895	4,890	5,790	-	-	-	-	-

(-) Not Analyzed

APPENDIX A

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 22S Range: 32E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

AVERAGE DEPTH OF WATER REPORT 07/26/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	22S	32E	14				2	340	360	350
C	22S	32E	19				1	280	280	280

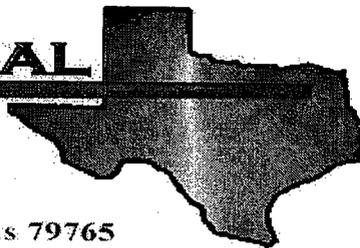
Record Count: 3

APPENDIX B

Lab Analysis

Report Date: 08/01/05

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/ Federal 27 TB

Project Number: 2420

Location: Lea County, NM

Lab Order Number: 5G18017

Report Date: 08/01/05

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

Reported:
08/01/05 10:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 (0-1.0')	5G18017-01	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (1.0-1.5')	5G18017-02	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (2.0-2.5')	5G18017-03	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (3.0-3.5')	5G18017-04	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (4.0-4.5')	5G18017-05	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (5.0-5.5')	5G18017-06	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (7.0-7.5')	5G18017-07	Soil	07/14/05 00:00	07/18/05 13:10
AH-1 (10.0-10.5')	5G18017-08	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (0-1.0')	5G18017-09	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (1.0-1.5')	5G18017-10	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (2.0-2.5')	5G18017-11	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (3.0-3.5')	5G18017-12	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (4.0-4.5')	5G18017-13	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (5.0-5.5')	5G18017-14	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (7.0-7.5')	5G18017-15	Soil	07/14/05 00:00	07/18/05 13:10
AH-2 (10.0-10.5')	5G18017-16	Soil	07/14/05 00:00	07/18/05 13:10
AH-3 (0-1.0')	5G18017-17	Soil	07/14/05 00:00	07/18/05 13:10
AH-3 (1.0-1.5')	5G18017-18	Soil	07/14/05 00:00	07/18/05 13:10
AH-3 (2.0-2.5')	5G18017-19	Soil	07/14/05 00:00	07/18/05 13:10

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 (0-1.0') (5G18017-01) Soil									
Benzene	0.375	0.0250	mg/kg dry	25	EG51909	07/19/05	07/19/05	EPA 8021B	
Toluene	1.46	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.02	0.0250	"	"	"	"	"	"	
Xylene (p/m)	2.58	0.0250	"	"	"	"	"	"	
Xylene (o)	1.68	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1810	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	9330	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	11100	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		17.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		15.4 %	70-130		"	"	"	"	S-06
AH-1 (1.0-1.5') (5G18017-02) Soil									
Gasoline Range Organics C6-C12	J [26.3]	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	J
Diesel Range Organics >C12-C35	1890	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1890	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		13.6 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		12.5 %	70-130		"	"	"	"	S-06
AH-2 (0-1.0') (5G18017-09) Soil									
Benzene	0.405	0.0250	mg/kg dry	25	EG51909	07/19/05	07/19/05	EPA 8021B	
Toluene	0.788	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.637	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.800	0.0250	"	"	"	"	"	"	
Xylene (o)	1.10	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	1450	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	6590	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	8040	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		14.3 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		15.6 %	70-130		"	"	"	"	S-06

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

Project: Pogo/ Federal 27 TB
 Project Number: 2420
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
 08/01/05 10:34

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 (1.0-1.5') (5G18017-10) Soil									
Gasoline Range Organics C6-C12	499	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	3190	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	3690	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		10.0 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		13.3 %	70-130		"	"	"	"	S-06
AH-3 (0-1.0') (5G18017-17) Soil									
Benzene	1.09	0.100	mg/kg dry	100	EG51909	07/19/05	07/20/05	EPA 8021B	
Toluene	3.10	0.100	"	"	"	"	"	"	
Ethylbenzene	3.50	0.100	"	"	"	"	"	"	
Xylene (p/m)	7.92	0.100	"	"	"	"	"	"	
Xylene (o)	4.22	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		113 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	2290	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	9250	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	11500	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		15.7 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		15.5 %	70-130		"	"	"	"	S-06
AH-3 (1.0-1.5') (5G18017-18) Soil									
Gasoline Range Organics C6-C12	599	50.0	mg/kg dry	5	EG52011	07/20/05	07/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	3350	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	3950	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		10.5 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		14.5 %	70-130		"	"	"	"	S-06

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 (0-1.0') (5G18017-01) Soil									
Chloride	10500	1000	mg/kg	2000	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	11.0	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	
AH-1 (1.0-1.5') (5G18017-02) Soil									
Chloride	904	10.0	mg/kg	20	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	4.5	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	
AH-1 (2.0-2.5') (5G18017-03) Soil									
Chloride	736	10.0	mg/kg	20	EG52104	07/20/05	07/20/05	EPA 300.0	
AH-1 (3.0-3.5') (5G18017-04) Soil									
Chloride	420	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-1 (4.0-4.5') (5G18017-05) Soil									
Chloride	210	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-1 (5.0-5.5') (5G18017-06) Soil									
Chloride	231	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-1 (7.0-7.5') (5G18017-07) Soil									
Chloride	328	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-1 (10.0-10.5') (5G18017-08) Soil									
Chloride	500	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-2 (0-1.0') (5G18017-09) Soil									
Chloride	753	100	mg/kg	200	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	12.5	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	

Environmental Lab of Texas

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Page 4 of 12

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-2 (1.0-1.5') (5G18017-10) Soil									
Chloride	1460	25.0	mg/kg	50	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	5.3	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	
AH-2 (2.0-2.5') (5G18017-11) Soil									
Chloride	1500	25.0	mg/kg	50	EG52104	07/20/05	07/20/05	EPA 300.0	
AH-2 (3.0-3.5') (5G18017-12) Soil									
Chloride	1520	25.0	mg/kg	50	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-2 (4.0-4.5') (5G18017-13) Soil									
Chloride	1300	20.0	mg/kg	40	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-2 (5.0-5.5') (5G18017-14) Soil									
Chloride	1020	10.0	mg/kg	20	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-2 (7.0-7.5') (5G18017-15) Soil									
Chloride	343	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-2 (10.0-10.5') (5G18017-16) Soil									
Chloride	360	5.00	mg/kg	10	EG52911	07/28/05	07/28/05	EPA 300.0	
AH-3 (0-1.0') (5G18017-17) Soil									
Chloride	3680	50.0	mg/kg	100	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	11.2	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	
AH-3 (1.0-1.5') (5G18017-18) Soil									
Chloride	523	5.00	mg/kg	10	EG52104	07/20/05	07/20/05	EPA 300.0	
% Moisture	3.5	0.1	%	1	EG51901	07/18/05	07/19/05	% calculation	

Environmental Lab of Texas

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Page 5 of 12

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-3 (2.0-2.5') (SG18017-19) Soil									
Chloride	358	5.00	mg/kg	10	EG52104	07/20/05	07/20/05	EPA 300.0	

Environmental Lab of Texas

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Page 6 of 12

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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
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Batch EG51909 - EPA 5030C (GC)

Blank (EG51909-BLK1)

Prepared & Analyzed: 07/19/05

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	83.4		ug/kg	100		83.4	80-120			
Surrogate: 4-Bromofluorobenzene	86.5		"	100		86.5	80-120			

LCS (EG51909-BS1)

Prepared & Analyzed: 07/19/05

Benzene	101		ug/kg	100		101	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	105		"	100		105	80-120			
Xylene (p/m)	205		"	200		102	80-120			
Xylene (o)	94.0		"	100		94.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	93.3		"	100		93.3	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			

Calibration Check (EG51909-CCV1)

Prepared: 07/19/05 Analyzed: 07/20/05

Benzene	105		ug/kg	100		105	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	97.9		"	100		97.9	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	99.2		"	100		99.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.6		"	100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	92.8		"	100		92.8	80-120			

Matrix Spike (EG51909-MS1)

Source: 5G18019-02

Prepared: 07/19/05 Analyzed: 07/20/05

Benzene	107		ug/kg	100	ND	107	80-120			
Toluene	110		"	100	ND	110	80-120			
Ethylbenzene	112		"	100	ND	112	80-120			
Xylene (p/m)	228		"	200	ND	114	80-120			
Xylene (o)	110		"	100	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	98.9		"	100		98.9	80-120			
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Environmental Lab of Texas

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Page 7 of 12

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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
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Batch EG51909 - EPA 5030C (GC)

Matrix Spike Dup (EG51909-MSD1)

Source: 5G18019-02

Prepared: 07/19/05

Analyzed: 07/20/05

Benzene	105		ug/kg	100	ND	105	80-120	1.89	20	
Toluene	108		"	100	ND	108	80-120	1.83	20	
Ethylbenzene	108		"	100	ND	108	80-120	3.64	20	
Xylene (p/m)	218		"	200	ND	109	80-120	4.48	20	
Xylene (o)	105		"	100	ND	105	80-120	4.65	20	
Surrogate: a,a,a-Trifluorotoluene	95.7		"	100		95.7	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			

Batch EG52011 - Solvent Extraction (GC)

Blank (EG52011-BLK1)

Prepared: 07/20/05

Analyzed: 07/21/05

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	39.5		mg/kg	50.0		79.0	70-130			
Surrogate: 1-Chlorooctadecane	38.1		"	50.0		76.2	70-130			

LCS (EG52011-BS1)

Prepared: 07/20/05

Analyzed: 07/21/05

Gasoline Range Organics C6-C12	462	10.0	mg/kg wet	500		92.4	75-125			
Diesel Range Organics >C12-C35	445	10.0	"	500		89.0	75-125			
Total Hydrocarbon C6-C35	907	10.0	"	1000		90.7	75-125			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	70-130			
Surrogate: 1-Chlorooctadecane	38.5		"	50.0		77.0	70-130			

Calibration Check (EG52011-CCV1)

Prepared: 07/20/05

Analyzed: 07/21/05

Gasoline Range Organics C6-C12	516		mg/kg	500		103	80-120			
Diesel Range Organics >C12-C35	481		"	500		96.2	80-120			
Total Hydrocarbon C6-C35	997		"	1000		99.7	80-120			
Surrogate: 1-Chlorooctane	53.1		"	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	44.2		"	50.0		88.4	70-130			

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

Project: Pogo/ Federal 27 TB
 Project Number: 2420
 Project Manager: Ike Tavarez

Fax: (432) 682-3946
 Reported:
 08/01/05 10:34

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
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Batch EG52011 - Solvent Extraction (GC)

Matrix Spike (EG52011-MS1) **Source: 5G18015-11** **Prepared: 07/20/05** **Analyzed: 07/21/05**

Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	559	ND	105	75-125			
Diesel Range Organics >C12-C35	589	10.0	"	559	ND	105	75-125			
Total Hydrocarbon C6-C35	1180	10.0	"	1120	ND	105	75-125			
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	46.2		"	50.0		92.4	70-130			

Matrix Spike Dup (EG52011-MSD1) **Source: 5G18015-11** **Prepared: 07/20/05** **Analyzed: 07/21/05**

Gasoline Range Organics C6-C12	589	10.0	mg/kg dry	559	ND	105	75-125	0.340	20	
Diesel Range Organics >C12-C35	572	10.0	"	559	ND	102	75-125	2.93	20	
Total Hydrocarbon C6-C35	1160	10.0	"	1120	ND	104	75-125	1.71	20	
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	46.9		"	50.0		93.8	70-130			

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

Project: Pogo/ Federal 27 TB
 Project Number: 2420
 Project Manager: Ike Tavarez

Fax: (432) 682-3946
 Reported:
 08/01/05 10:34

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
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Batch EG51901 - General Preparation (Prep)

Blank (EG51901-BLK1)		Prepared: 07/18/05 Analyzed: 07/19/05								
% Moisture	ND	0.1	%							
Duplicate (EG51901-DUP1)		Source: 5G18001-01 Prepared: 07/18/05 Analyzed: 07/19/05								
% Moisture	1.7	0.1	%		1.6			6.06	20	

Batch EG52104 - Water Extraction

Blank (EG52104-BLK1)		Prepared & Analyzed: 07/20/05								
Chloride	ND	0.500	mg/kg							
LCS (EG52104-BS1)		Prepared & Analyzed: 07/20/05								
Chloride	10.7		mg/L	10.0		107	80-120			
Calibration Check (EG52104-CCV1)		Prepared & Analyzed: 07/20/05								
Chloride	10.7		mg/L	10.0		107	80-120			
Duplicate (EG52104-DUP1)		Source: 5G18016-19 Prepared & Analyzed: 07/20/05								
Chloride	1280	25.0	mg/kg		1320			3.08	20	

Batch EG52911 - Water Extraction

Blank (EG52911-BLK1)		Prepared & Analyzed: 07/28/05								
Chloride	ND	0.500	mg/kg							
LCS (EG52911-BS1)		Prepared & Analyzed: 07/28/05								
Chloride	10.4		mg/L	10.0		104	80-120			

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
08/01/05 10:34

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
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Batch EG52911 - Water Extraction

Calibration Check (EG52911-CCV1)

Prepared & Analyzed: 07/28/05

Chloride	10.3		mg/L	10.0		103	80-120			
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Duplicate (EG52911-DUP1)

Source: 5G18017-04

Prepared & Analyzed: 07/28/05

Chloride	403	5.00	mg/kg		420			4.13	20	
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Highlander Environmental Corp.
1910 N. Big Spring St.
Midland TX, 79705

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
08/01/05 10:34

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.

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

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

8-01-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Highlander

Date/Time: 7/18/05 12:10

Order #: 5918017

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not present
Chain of custody present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Container labels legible and intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Samples properly preserved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sample bottles intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:

Jeanne McMurrey

From: "Tim Reed" <treed@hec-enviro.com>
To: "Jeanne McMurrey" <jeanne@elabtxas.com>
Sent: Wednesday, July 27, 2005 9:31 AM
Subject: RE: Report #5G18017 Pogo/ Federal 27 TB

July 27, 2005

Environmental Labs of Texas

Jeanne:

We request the following sample analysis be added to Lab Number 5G18017:

Pogo/Federal 27

AH-1 (3.0'-3.5'), Chloride
AH-1 (4.0'-4.5'), Chloride
AH-1 (5.0'-5.5'), Chloride
AH-1 (7.0'-7.5'), Chloride
AH-1 (10.0'-10.5'), Chloride

AH-2 (3.0'-3.5'), Chloride
AH-2 (4.0'-4.5'), Chloride
AH-2 (5.0'-5.5'), Chloride
AH-2 (7.0'-7.5'), Chloride
AH-2 (10.0'-10.5'), Chloride

Thank you,

Tim Reed, P.G.
Vice President
Highlander Environmental Corp.
office - (432) 682-4559
fax - (432) 682-3946
cell - (432) 557-4680

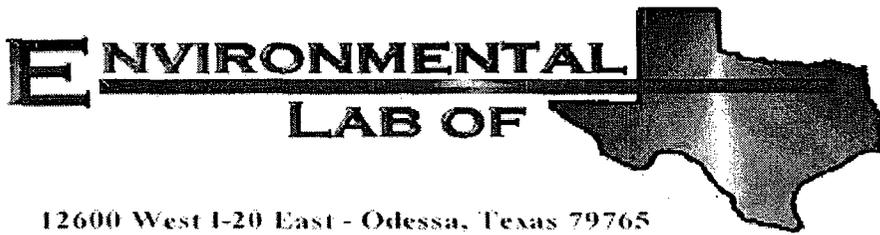
-----Original Message-----

From: Jeanne McMurrey [mailto:jeanne@elabtxas.com]
Sent: Friday, July 22, 2005 5:27 PM
To: Ike Tavarez; Tim Reed
Subject: Re: Report #5G18017 Pogo/ Federal 27 TB

Jeanne McMurrey
Environmental Lab of Texas I, Ltd.
12600 West I-20 East
Odessa, Texas 79765
432-563-1800

Lab Analysis

Report Date: 09/20/05



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/ Federal 27 TB

Project Number: 2420

Location: Lea Co., NM

Lab Order Number: 5113012

Report Date: 09/20/05

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavaréz

Fax: (432) 682-3946
Reported:
09/20/05 08:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1 Composite	5113012-01	Soil	09/08/05 00:00	09/13/05 16:00
#2 Composite	5113012-02	Soil	09/08/05 00:00	09/13/05 16:00
Stockpile	5113012-03	Soil	09/08/05 00:00	09/13/05 16:00

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

Project: Pogo/ Federal 27 TB
 Project Number: 2420
 Project Manager: Ike Tavarez

Fax: (432) 682-3946
 Reported:
 09/20/05 08:33

**Organics by GC
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5113012-01) Soil									
Gasoline Range Organics C6-C12	J [5.53]	10.0	mg/kg dry	1	E151414	09/14/05	09/17/05	EPA 8015M	J
Diesel Range Organics >C12-C35	500	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	500	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.0 %	70-130		"	"	"	"	
#2 Composite (5113012-02) Soil									
Gasoline Range Organics C6-C12	89.0	10.0	mg/kg dry	1	E151414	09/14/05	09/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	1150	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1240	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
Stockpile (5113012-03) Soil									
Gasoline Range Organics C6-C12	895	50.0	mg/kg dry	5	E151414	09/14/05	09/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	4890	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	5790	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		16.1 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		17.0 %	70-130		"	"	"	"	S-06

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Reported:
09/20/05 08:33

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#1 Composite (5113012-01) Soil									
% Moisture	0.2	0.1	%	1	E151420	09/14/05	09/14/05	% calculation	
#2 Composite (5113012-02) Soil									
% Moisture	0.5	0.1	%	1	E151420	09/14/05	09/14/05	% calculation	
Stockpile (5113012-03) Soil									
% Moisture	3.4	0.1	%	1	E151420	09/14/05	09/14/05	% calculation	

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
09/20/05 08:33

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
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Batch EI51414 - Solvent Extraction (GC)

Blank (EI51414-BLK1)

Prepared: 09/14/05 Analyzed: 09/15/05

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	44.7		mg/kg	50.0		89.4	70-130			
Surrogate: 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130			

LCS (EI51414-BS1)

Prepared: 09/14/05 Analyzed: 09/15/05

Gasoline Range Organics C6-C12	412	10.0	mg/kg wet	500		82.4	75-125			
Diesel Range Organics >C12-C35	436	10.0	"	500		87.2	75-125			
Total Hydrocarbon C6-C35	848	10.0	"	1000		84.8	75-125			
Surrogate: 1-Chlorooctane	50.9		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	50.5		"	50.0		101	70-130			

Calibration Check (EI51414-CCV1)

Prepared: 09/14/05 Analyzed: 09/17/05

Gasoline Range Organics C6-C12	443		mg/kg	500		88.6	80-120			
Diesel Range Organics >C12-C35	422		"	500		84.4	80-120			
Total Hydrocarbon C6-C35	865		"	1000		86.5	80-120			
Surrogate: 1-Chlorooctane	51.9		"	50.0		104	0-200			
Surrogate: 1-Chlorooctadecane	53.5		"	50.0		107	0-200			

Matrix Spike (EI51414-MS1)

Source: 5113008-01

Prepared: 09/14/05 Analyzed: 09/15/05

Gasoline Range Organics C6-C12	939	10.0	mg/kg dry	568	289	114	75-125			
Diesel Range Organics >C12-C35	1400	10.0	"	568	721	120	75-125			
Total Hydrocarbon C6-C35	2340	10.0	"	1140	1010	117	75-125			
Surrogate: 1-Chlorooctane	61.4		mg/kg	50.0		123	70-130			
Surrogate: 1-Chlorooctadecane	56.5		"	50.0		113	70-130			

Matrix Spike Dup (EI51414-MSD1)

Source: 5113008-01

Prepared: 09/14/05 Analyzed: 09/15/05

Gasoline Range Organics C6-C12	914	10.0	mg/kg dry	568	289	110	75-125	2.70	20	
Diesel Range Organics >C12-C35	1400	10.0	"	568	721	120	75-125	0.00	20	
Total Hydrocarbon C6-C35	2310	10.0	"	1140	1010	114	75-125	1.29	20	
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	54.2		"	50.0		108	70-130			

Environmental Lab of Texas

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.

Page 4 of 6

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

Project: Pogo/ Federal 27 TB
 Project Number: 2420
 Project Manager: Ike Tavaréz

Fax: (432) 682-3946
 Reported:
 09/20/05 08:33

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EI51420 - General Preparation (Prep)									
Blank (EI51420-BLK1)					Prepared & Analyzed: 09/14/05				
% Solids	100		%						
Duplicate (EI51420-DUP1)					Source: 5I13009-01 Prepared & Analyzed: 09/14/05				
% Solids	96.2		%		97.6		1.44	20	
Duplicate (EI51420-DUP2)					Source: 5I13010-04 Prepared & Analyzed: 09/14/05				
% Solids	98.1		%		98.1		0.00	20	
Duplicate (EI51420-DUP3)					Source: 5I14002-03 Prepared & Analyzed: 09/14/05				
% Solids	99.9		%		99.9		0.00	20	

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

Project: Pogo/ Federal 27 TB
Project Number: 2420
Project Manager: Ike Tavarez

Fax: (432) 682-3946
Reported:
09/20/05 08:33

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.

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

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

9/20/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director. Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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.

Page 6 of 6

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Highlander

Date/Time: 9/13/05 11:00

Order #: 5I13012

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

APPENDIX C

District I - (505) 393-6161
 P. O. Box 1980
 Hobbs, NM 88241-1980
 District II - (505) 748-1283
 811 South First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Road
 Aztec, NM 87410
 District IV - (505) 827-7131

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
 2040 South Pacheco Street
 Santa Fe, New Mexico 87505
 (505) 827-7131

Form C-14
 Originated 2/13/91

Submit 2 copies
 Appropriate Distr
 Office in accordan
 with Rule 116
 back side of for

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name POGO PRODUCING COMPANY	Contact SCOTT HODGES
Address PO Box 10340	Telephone No. 432-631-2343
Facility Name FEDERAL 27	Facility Type BATTERY

Surface Owner BLM	Mineral Owner	Lease No.
-----------------------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	27	22S	32E	330	SOUTH	2310	WEST	LEA

NATURE OF RELEASE

Type of Release SALTWATER	Volume of Release 98	Volume Recovered 96
Source of Release HOLE IN BATTERY PIPING	Date and Hour of Occurrence 10:00 AM	Date and Hour of Discovery 10:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? SYLVIA DICKEY	
By Whom? SCOTT HODGES	Date and Hour 7/6/05 3:00	
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. (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)

HOLE IN PIPING CAUSED BY CORROSION, PIPED UP ALL FREE STANDING FLUID

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)

ALL FLUIDS WERE CONTAINED WITHIN DRAIN AREA OF TANKS. SAMPLES WILL BE TAKEN TO DETERMINE CLEANUP.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDD 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 NMOCDD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCDD 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 <i>Scott Hodges</i>	OIL CONSERVATION DIVISION		
Printed Name: SCOTT HODGES	Approved by District Supervisor:	Approval Date:	Expiration Date:
Title: FIELD FOREMAN	Date: 7/6/05		Phone: 432-631-2343
Conditions of Approval:		Attached	<input type="checkbox"/>

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 <u>Pogo Producing Company</u>		Contact <u>Pat Ellis</u>
Address: <u>300 N. Marienfeld, Box 10340, Midland Tx. 79701</u>		Telephone No. <u>(432) 685-8100</u>
Facility Name: <u>Federal 27 #1</u>		Facility Type: <u>Tank Battery</u>
Surface Owner: <u>BLM</u>	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	27	22S	32E	330	FSL	2310	FWL	Lea

NATURE OF RELEASE

Type of Release: <u>Produced water</u>	Volume of Release <u>98 barrels</u>	Volume Recovered <u>96 barrels</u>
Source of Release <u>Hole in battery piping</u>	Date and Hour of Occurrence <u>7/6/05, 10:00am</u>	Date and Hour of Discovery <u>7/6/05 10:00 am</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>NMOCD - Sylvia Dickey</u>	
By Whom? <u>Scott Hodges</u>	Date and Hour <u>7/6/05 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.*

Describe Cause of Problem and Remedial Action Taken.*

Hole in piping caused by corrosion. Picked up all free standing fluid.

Describe Area Affected and Cleanup Action Taken.*

All fluids were contained within diked area of tanks. Samples were taken, and area was excavated to 1.5' below ground surface. Confirmation samples were taken. Closure Report prepared and submitted to the NMOCD for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <u>Tim Reed</u>	Approved by District Supervisor:	
Printed Name: <u>Tim Reed, P.G. (Highlander Environmental Corp.)</u>	Approval Date:	Expiration Date:
Title: <u>Vice President</u>	Conditions of Approval:	
E-mail Address: <u>treed@hec-enviro.com</u>	Attached <input type="checkbox"/>	
Date: <u>10/5/05</u>	Phone: <u>(432) 682-4559</u>	

* Attach Additional Sheets If Necessary