



Highlander Environmental Corp.

Midland, Texas

October 15, 2002

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
P. O. Box 1980
Hobbs, New Mexico 88240

RE: Assessment and Closure Report for the Spill from the Pogo Producing Company, E.C. Hill #C-3 Well Location, Section 27, T-23-S, R-37-E, Lea County, New Mexico

Dear Mr. Johnson:

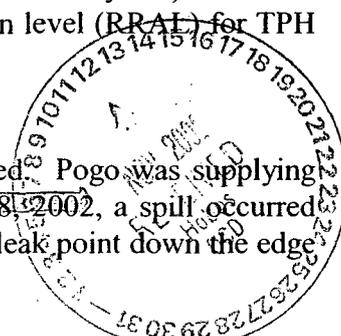
Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill, which occurred at the Pogo Hill #C-3 well location in Lea County, New Mexico (Site). The Site is located in Section 27, Township 23 South, Range 37 East. The Site is shown in Figure 1. The State of New Mexico C-141 (Initial) is included in Appendix A.

According to published data, groundwater in the area is greater than 50 feet below surface. The State of New Mexico Well Reports are included in Appendix B. In addition, the New Mexico State Engineers Office has been contacted to confirm the groundwater depth at the Site.

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 recommended remedial action level (RRAL) for TPH is 1,000 mg/kg.

Background

At the time of the spill, the E.C. Hill #C-3 well was being drilled. Pogo was supplying produced water to the drilling rig through a 3" poly line. On August 28, 2002, a spill occurred when a leak formed in the 3" poly line. Produced water flowed from the leak point down the edge



Arch - 962

incident - nPAC0603748047

application - pPAC0603748259

of the caliche road (east) for a distance of about 500'. At that point, the water began to pool off the north edge of the road near the shut-in Hill B-3 well location. The overall dimensions of the pooled area measured approximately 150' x 50'. An unknown volume of produced water was released and none was recovered. The spill area is shown in Figure 2.

Corrective Action

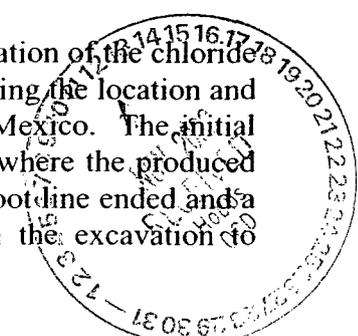
On August 30, 2002, Highlander personnel collected soil samples from the spill area using a stainless steel, bucket type hand auger. A total of eight (8) auger holes (AH) were installed to define the extent of the impact. Five of the auger holes (AH-1 through AH-5) were placed in the pooled area, while the other three (AH-6 through AH-8) were placed in the edge of the caliche road. The spill areas and auger hole locations are shown in Figure 2. No evidence of hydrocarbon staining was observed, however, soil samples were collected from the spill areas for evaluation of Total Petroleum Hydrocarbon (TPH) by method 8015M and chloride by method SW846-9252. The soil samples results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix C.

Table 1
(Concentrations in mg/kg)

Sample ID	Date Sampled	Depth (ft)	TPH	Chloride
AH-1	08/29/02	0-0.5'	<10	5390
AH-1	08/29/02	1.0'-1.5'	-	3620
AH-2	08/29/02	0-0.5'	-	4960
AH-2	08/29/02	1.0'-1.5'	-	5320
AH-3	08/29/02	0-0.5'	<10	5670
AH-3	08/29/02	1.0'-1.5'	-	5320
AH-4	08/29/02	0-0.5'	-	6030
AH-4	08/29/02	1.0'-1.5'	-	6470
AH-5	08/29/02	0-0.5'	<10	4520
AH-5	08/29/02	1.0'-1.5'	-	5230
AH-6	08/29/02	0-0.5'	-	5140
AH-6	08/29/02	1.0'-1.5'	-	5140
AH-7	08/29/02	0-0.5'	-	4960
AH-7	08/29/02	1.0'-1.5'	-	5050
AH-8	08/29/02	0-0.5'	<10	5320
AH-8	08/29/02	1.0'-1.5'	-	5230

(-) Not Analyzed

Based upon the results of the sampling, it was decided to begin excavation of the chloride impacted soils. On September 19, 2002, Key Energy Services began excavating the location and hauling the excavated soils to Sundance Disposal Facility in Eunice, New Mexico. The initial excavation involved stripping off the first 1.5' to 2.0' of topsoil in the area where the produced water had pooled. At approximately 1.5 to 2.0' below ground surface, the rootline ended and a gravelly caliche layer started. Three backhoe trenches were installed in the excavation to



evaluate chloride impact to deeper soils. The trench locations are shown on Figure 3.

Table 2
(Concentrations in mg/kg)

Sample ID	Date Sampled	Depth (ft)	Actual Depth BGS (ft)*	Chloride
Trench 1	09/20/02	1.0'	2.5'	2760
Trench 1	09/20/02	2.0'	3.5'	2260
Trench 1	09/24/02	3.0'-3.5'	4.0'-4.5'	2020
Trench 2	09/20/02	1.0'	2.5'	5320
Trench 2	09/20/02	2.0'	3.5'	5670
Trench 2	09/24/02	3.0'-3.5'	4.0'-4.5'	3120
Trench 3	09/20/02	1.0'	2.5'	6030
Trench 3	09/20/02	2.0'	3.5'	6470
Trench 3	09/24/02	3.0'-3.5'	4.0'-4.5'	1770
Trench 4	10/01/02	1.0'	5.0'	4790
Trench 4	10/01/02	2.0'	6.0'	2840
Trench 4	10/01/02	3.0'	7.0'	2270
Trench 4	10/15/02	4.0'	8.0'	1740
Trench 4	10/15/02	5.0'	9.0'	744
Trench 4	10/15/02	6.0'	10.0'	106
Trench 5	10/01/02	1.0'	5.0'	514
Trench 5	10/01/02	2.0'	6.0'	<20
Trench 5	10/01/02	3.0'	7.0'	<20
Trench 6	10/01/02	1.0'	5.0'	2690
Trench 6	10/01/02	2.0'	6.0'	177
Trench 6	10/01/02	3.0'	7.0'	<20

(-) Not Analyzed

(*) BGS – Below Ground Surface

Based upon the results of the initial trench samples, it was decided that an additional 2.0 feet should be removed from the excavation. On September 24, 2002, deeper soil samples (3.0'-3.5') were taken from the three trenches and submitted to the laboratory for analysis of chloride. On September 24-25, 2002, Key Energy Services, Inc. excavated the site to an approximate depth of 4.0 feet below ground surface. To further investigate the vertical chloride impact, fresh trenches were installed near the original trench locations to extract new samples for confirmation. Trenches 4, 5 and 6 are shown on Figure 3.

Trenches 5 and 6 in the center and northern portions of the excavation showed chloride levels decreasing to acceptable levels, while the samples from Trench 4 remained elevated with depth. On October 15, 2002, deeper samples were extracted from trench 4 and showed levels decreasing to background levels within 6' of the bottom of the excavation.

Approximately 1000 cubic yards of impacted soil was removed and disposed at Sundance



Services, Inc. located in Eunice, New Mexico. Considering the fact that the area has been excavated well below the root zone and since chloride levels decrease to background levels within a few feet of the bottom of the excavation, this site should be backfilled with clean fill material and closed.

Conclusions

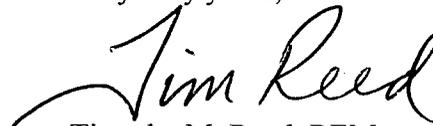
1. According to published data, groundwater in the area is greater than 50 feet below surface. In addition, the New Mexico State Engineers Office has been contacted to confirm the groundwater depth at the Site.
2. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams 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 1,000 mg/kg. No detectable levels of TPH were observed.
3. The chloride impacted soil was excavated to an approximate depth of 4.0' below surface. Approximately 1000 cubic yards of impacted soil was removed and disposed at Sundance Services, Inc. located in Eunice, New Mexico.

Recommendation

1. Based on the fact that the area has been excavated well below the root zone and since chloride levels decrease to background levels within a few feet of the bottom of the excavation, Pogo Producing Company proposes backfilling and closure of the spill area. The State of New Mexico C-141 (Final) is shown in Appendix A.

If you require any additional information or have any questions or comments concerning the assessment report, please call.

Very truly yours,



Timothy M. Reed, REM
Vice President

cc: Don Riggs – Pogo Producing Co.
Rex Jasper – Pogo Producing Co.



FIGURES

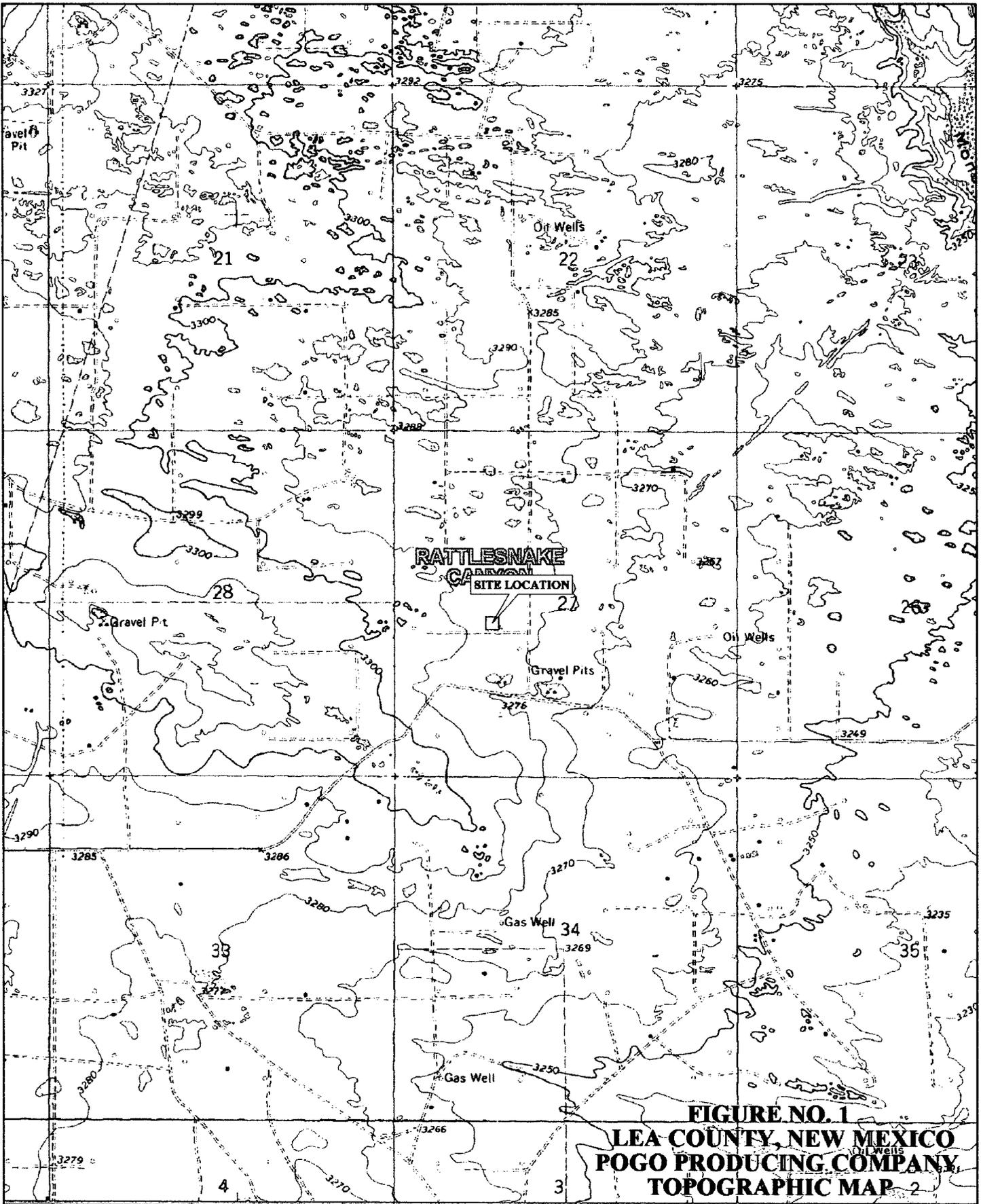
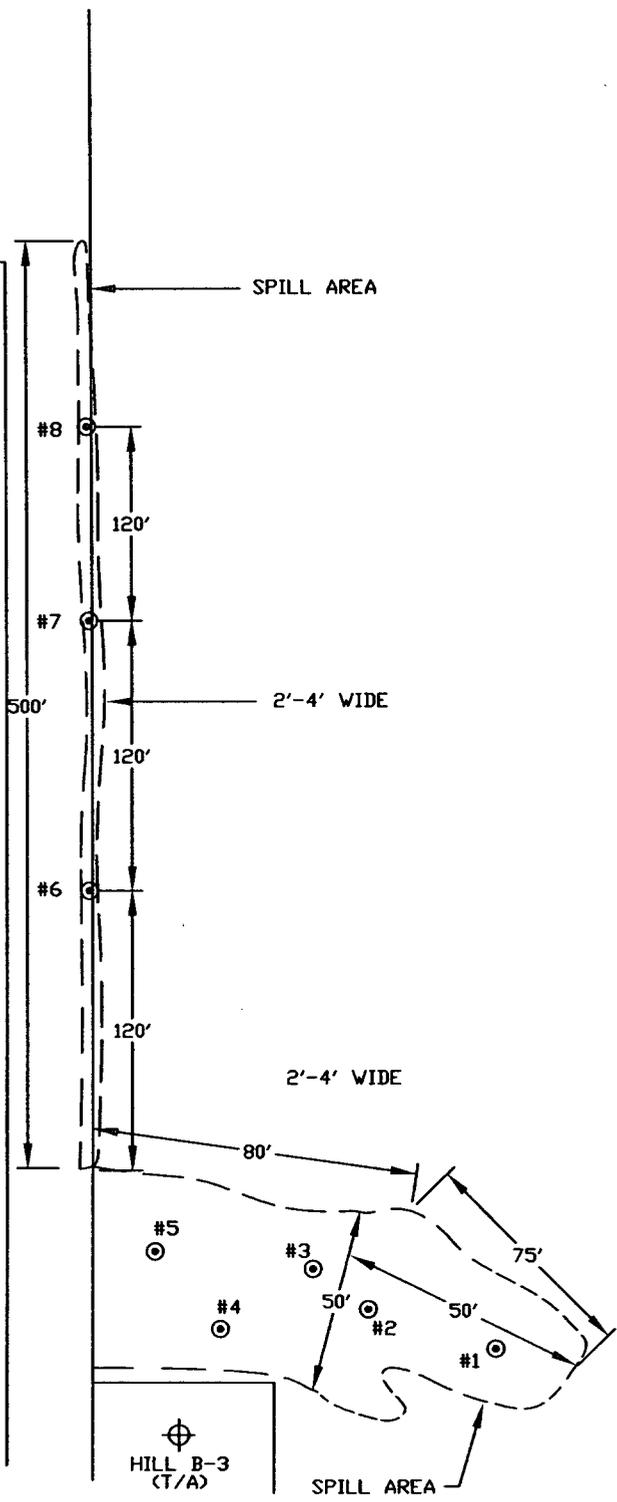


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
POGO PRODUCING COMPANY,
TOPOGRAPHIC MAP



○
DRILLING RIG



LEGEND
○ AUGERHOLE LOCATION

NOT TO SCALE

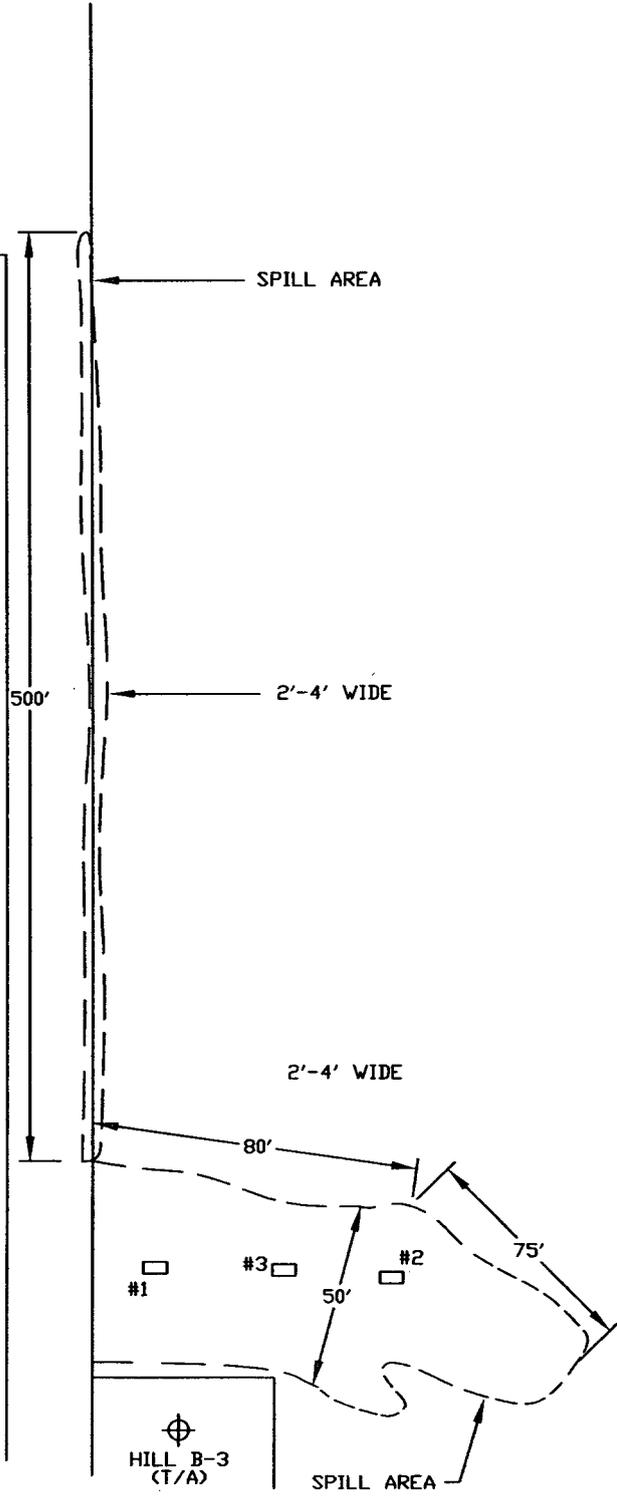
FIGURE NO. 2

LEA COUNTY, NEW MEXICO
POGO PRODUCING COMPANY
E.C. HILL C-3 SPILL AREA
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

DATE:
9/10/02
DWG. BY:
JDA
FILE:
C:\pogo\1877\
SITE



○
DRILLING RIG



LEGEND
□ TRENCH LOCATION

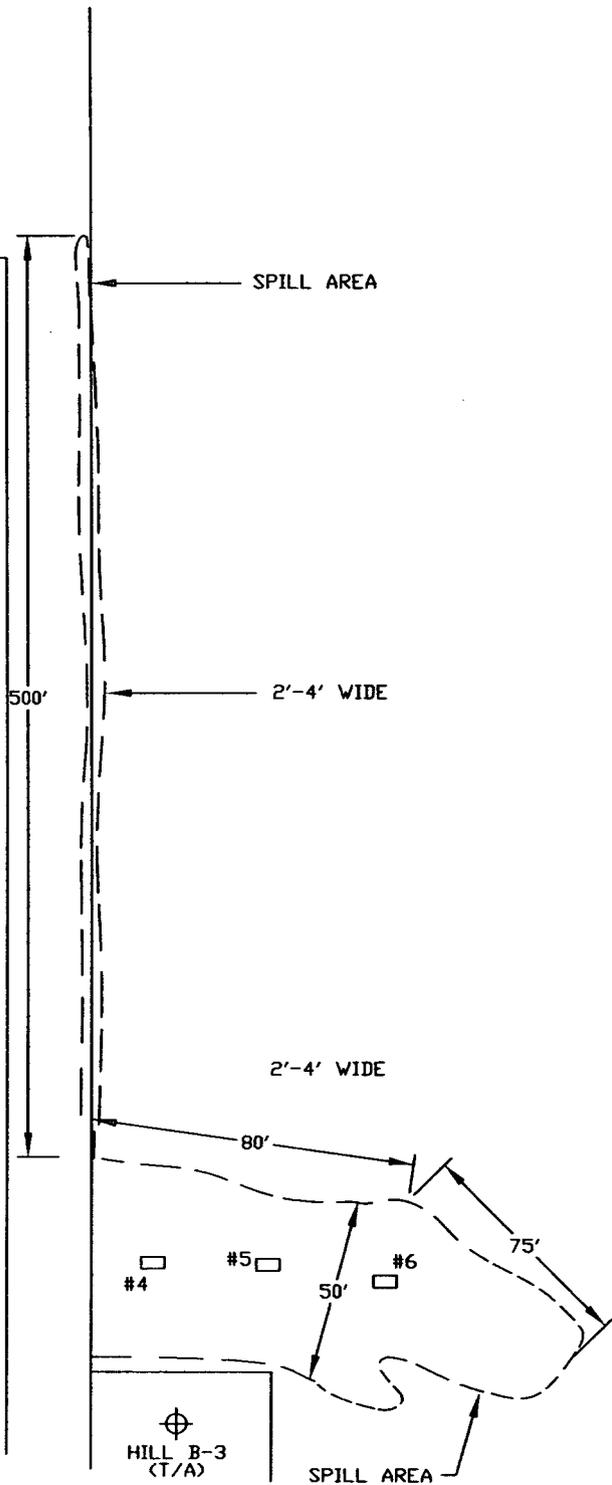
NOT TO SCALE

DATE:
9/10/02
DWN. BY:
JDA
FILE:
C:\P000\1077\FIG-3

FIGURE NO. 3	
LEA COUNTY, NEW MEXICO	
POGO PRODUCING COMPANY	
E.C. HILL C-3 SPILL AREA TRENCH 1-3 LOCATIONS	
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS	



○
DRILLING RIG



LEGEND
□ TRENCH LOCATION

FIGURE NO. 4

LEA COUNTY, NEW MEXICO	
POGO PRODUCING COMPANY	
E.C. HILL C-3 SPILL AREA TRENCH 4-6 LOCATIONS	
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS	

DATE:
9/10/02
DWG. BY:
JDA
FILE:
C:\P000\1077\
FIG-4

NOT TO SCALE

APPENDIX A

District I - (505) 393-6101
 P O Box 1980
 Hobbs, NM 88241-1930
 District II - (505) 748-1283
 81 - South First
 Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Road
 Aztec, NM 87410
 District IV - (505) 627-7131

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-141
 Originated 2/13/97

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	ARCH PET INC.	Contact	GARY WELLS
Address	EUNICE N.M.	Telephone No.	915-631-0134
Facility Name	E C Hill C-3	Facility Type	Producing Well
Surface Owner	D. K. BOYD	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Line Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	27	23S	37E	1950	S	990	W	LEA

NATURE OF RELEASE

Type of Release	PRODUCED WATER	Volume of Release	UNKNOWN	Volume Recovered	- 0 -
Source of Release	3" POLY LINE	Date and Hour of Occurrence	8/28/02	Date and Hour of Discovery	8/28/02 6:00 AM
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour 8/28/02 12:45 AM				
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)

REPAIR 3" LINE

SPLIT UP 3" POLY LINE RUNNING TO RIG FOR WATER SUPPLY

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

RUN DOWN SIDE OF MAIN ROAD AND INTO PASTURE. TURNED INTO OR

ENVIRONMENTALIST WAITING ON INSTRUCTIONS FOR CLEANUP

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 poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature	<i>Gary Wells</i>	OIL CONSERVATION DIVISION	
Printed Name	GARY WELLS	Approved by	District Supervisor
Title	Field Supervisor	Approval Date	Expiration Date
Date	8/28/02	Conditions of Approval	Attached <input type="checkbox"/>
Phone	915-631-0134		

APPENDIX B

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

AVERAGE DEPTH OF WATER REPORT 11/05/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								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

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

WATER COLUMN REPORT 11/05/2002

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Well Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well Depth	Water Depth	Water Column	(in feet)
CP 00762	23S	37E	09	1	1					185	100	85	
CP 00423	23S	37E	16	4	3					175	115	60	
CP 00037 SRW1	23S	37E	32	3	4					180	106	74	

Record Count: 3

APPENDIX C

ANALYTICAL REPORT

Prepared for:

**TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705**

Project: Pogo/ E.C. Hill C-3 Area

PO#:

Order#: G0204410

Report Date: 09/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204410-01	AH-1 (0-0.5')	SOIL	8/29/02 12:30	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M Chloride	Rejected: No		Temp: 5.0 C		
0204410-02	AH-1 (1.0'-1.5')	SOIL	8/29/02 12:40	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-03	AH-2 (0-0.5')	SOIL	8/29/02 12:45	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-04	AH-2 (1.0'-1.5')	SOIL	8/29/02 12:50	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-05	AH-3 (0-0.5')	SOIL	8/29/02 13:00	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M Chloride	Rejected: No		Temp: 5.0 C		
0204410-06	AH-3 (1.0'-1.5')	SOIL	8/29/02 13:05	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-07	AH-4 (0-0.5')	SOIL	8/29/02 13:10	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-08	AH-4 (1.0'-1.5')	SOIL	8/29/02 13:15	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 5.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204410-09	AH-5 (0-0.5') Chloride	SOIL	8/29/02 13:25	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M Chloride	Rejected: No		Temp: 5.0 C		
0204410-10	AH-5 (1.0'-1.5') Chloride	SOIL	8/29/02 13:30	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-11	AH-6 (0-0.5') Chloride	SOIL	8/29/02 14:20	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-12	AH-6 (1.0'-1.5') Chloride	SOIL	8/29/02 14:25	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-13	AH-7 (0-0.5') Chloride	SOIL	8/29/02 14:05	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-14	AH-7 (1.0'-1.5') Chloride	SOIL	8/29/02 14:10	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		
0204410-15	AH-8 (0-0.5') 8015M Chloride	SOIL	8/29/02 13:45	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M Chloride	Rejected: No		Temp: 5.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204410-16	AH-8 (1.0-1.5')	SOIL	8/29/02 13:50	8/30/02 14:50	4 oz glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 5.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

Lab ID: 0204410-01
Sample ID: AH-1 (0-0.5')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Lab ID: 0204410-05
Sample ID: AH-3 (0-0.5')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

Lab ID: 0204410-09
Sample ID: AH-5 (0-0.5')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Lab ID: 0204410-15
Sample ID: AH-8 (0-0.5')

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Approval:  9/5/02

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

Lab ID: 0204410-01
Sample ID: AH-1 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5390	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-02
Sample ID: AH-1 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3620	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-03
Sample ID: AH-2 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4960	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-04
Sample ID: AH-2 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5320	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-05
Sample ID: AH-3 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5670	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-06
Sample ID: AH-3 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5320	mg/kg	1	20	9253	9/4/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
 HIGHLANDER ENVIRONMENTAL CORP.
 1910 N. BIG SPRING STREET
 MIDLAND, TX 79705

Order#: G0204410
 Project: 1877
 Project Name: Pogo/ E.C. Hill C-3 Area
 Location: Lea Co., NM

Lab ID: 0204410-07
 Sample ID: AH-4 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	6030	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-08
 Sample ID: AH-4 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	6470	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-09
 Sample ID: AH-5 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4520	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-10
 Sample ID: AH-5 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5230	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-11
 Sample ID: AH-6 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5140	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-12
 Sample ID: AH-6 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5140	mg/kg	1	20	9253	9/4/02	SB

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204410
Project: 1877
Project Name: Pogo/ E.C. Hill C-3 Area
Location: Lea Co., NM

Lab ID: 0204410-13
Sample ID: AH-7 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4960	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-14
Sample ID: AH-7 (1.0'-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5050	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-15
Sample ID: AH-8 (0-0.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5320	mg/kg	1	20	9253	9/4/02	SB

Lab ID: 0204410-16
Sample ID: AH-8 (1.0-1.5')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	5230	mg/kg	1	20	9253	9/4/02	SB

Approval: Celey D. Keene 9/5/02

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204410

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003048-02			<10.0		
TOTAL, C6-C35-mg/kg							
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003048-03		952	1003	105.4%	
TOTAL, C6-C35-mg/kg							
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003048-04		952	992	104.2%	1.1%
TOTAL, C6-C35-mg/kg							
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003048-05		1000	1040	104.0%	
TOTAL, C6-C35-mg/kg							

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204410

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-01			<20.0		
Chloride-mg/kg		0003050-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	756	99.2%	
Chloride-mg/kg		0204410-15	5320	5000	10300	99.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	744	97.4%	1.6%
Chloride-mg/kg		0204410-15	5320	5000	10200	97.6%	1.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-04		5000	4960	99.2%	
Chloride-mg/kg		0003050-04		5000	4960	99.2%	

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: 2

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:		SITE MANAGER:		NUMBER OF CONTAINERS	PRESERVATIVE METHOD				BTEX 8020/808	MTBE 8030/808	TPH 418.1	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	FCI	GC.MS Vol. 8240/8280/824	GC.MS Semi. Vol. 8270/825	PCB's 8090/808	Pest. 809/808	ROD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
PROJECT NO.:		PROJECT NAME:			HCL	HNOS	ICE	NONE																	
LAB I.D. NUMBER	DATE	TIME	MATRIX																						
PO 60		Tim Reed																							
1877		EC. Hill C-3 Leq (O.NM) spill area																							
1204410-01	8/29/02	12:30	S	X						X															X
02		12:40	S	X																					X
03		12:45	S	X																					X
04		12:50	S	X																					X
05		13:00	S	X																					X
06		13:05	S	X																					X
07		13:10	S	X																					X
08		13:15	S	X																					X
09		13:25	S	X																					X
10		13:30	S	X																					X

RELINQUISHED BY: (Signature) <i>Ray P. Miller</i>	Date: <u>8-30-02</u> Time: <u>2:50</u>	RECEIVED BY: (Signature) <i>C. L. ...</i>	Date: <u>8/30/02</u> Time: <u>19:50</u>	SAMPLED BY: (Print & Sign) <i>Tim Reed</i>	Date: <u>8/30/02</u> Time: <u>12:20</u>
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: _____	HIGHLANDER CONTACT PERSON: <i>Tim Reed / Ike Tavares</i>	Results by: RUSH Charges Authorized: Yes No
RECEIVING LABORATORY: ADDRESS: <u>Environmental Lab of Texas</u> CITY: <u>Odessa</u> STATE: <u>TX</u> ZIP: <u>79705</u> CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____		RECEIVED BY: (Signature)			

SAMPLE CONDITION WHEN RECEIVED: 5.0°C

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

REMARKS: Hold Extra samples for possible additional TPH

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: 2 OF: 2

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: POGO SITE MANAGER: Tim Reed

PROJECT NO.: 1877 PROJECT NAME: E.C. Hill C-3
Lea CO. NM spill area

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNOS	ICE	NONE	BTX 8020/808	MTBE 8020/808	TPH 418.1	PAH 8870	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. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Pest. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Chloride		
4410-11	8/29/02	14:20	S	X		AH-6 (0-0.5')	1	N			X																					X
12		14:25	S	X		AH-6 (1.0'-1.5')	1	N			X																					X
13		14:05	S	X		AH-7 (0-0.5')	1	N			X																					X
14		14:10	S	X		AH-7 (1.0'-1.5')	1	N			X																					X
15		13:45	S	X		AH-8 (0-0.5')	1	N			X				X																	X
16		13:50	S	X		AH-8 (1.0'-1.5')	1	N			X																					X

RELINQUISHED BY: (Signature) [Signature] Date: 8-30-02 Time: 2:50

RECEIVED BY: (Signature) [Signature] Date: 8/30/02 Time: 14:50

SAMPLED BY: (Print & Sign) Tim Reed Date: 8/30/02 Time: 10:30

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: _____

HIGHLANDER CONTACT PERSON: Tim Reed / Ike Tavares Results by: _____

RECEIVING LABORATORY: Environmental Lab of Texas ADDRESS: 12600 W. I-39 E CITY: Odessa STATE: TX ZIP: 79765 CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____

RECEIVED BY: (Signature) _____

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 5.0°C

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

REMARKS: Hold extra samples for possible additional TPH

ANALYTICAL REPORT

Prepared for:

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Project: Pogo E.C. Hill #C-3

PO#:

Order#: G0204569

Report Date: 09/21/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204569
Project: 1877
Project Name: Pogo E.C. Hill #C-3
Location: Lea County, New Mexico

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204569-01	Trench 1 1.0'	SOIL	9/20/02 10:10	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		
0204569-02	Trench 1 2.0'	SOIL	9/20/02 10:15	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		
0204569-03	Trench 2 1.0'	SOIL	9/20/02 10:20	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		
0204569-04	Trench 2 2.0'	SOIL	9/20/02 10:22	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		
0204569-05	Trench 3 1.0'	SOIL	9/20/02 10:27	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		
0204569-06	Trench 3 2.0'	SOIL	9/20/02 10:30	9/20/02 14:10	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 24.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
 HIGHLANDER ENVIRONMENTAL CORP.
 1910 N. BIG SPRING STREET
 MIDLAND, TX 79705

Order#: G0204569
 Project: 1877
 Project Name: Pogo E.C. Hill #C-3
 Location: Lea County, New Mexico

Lab ID: 0204569-01
 Sample ID: Trench 1 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2760	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204569-02
 Sample ID: Trench 1 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2260	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204569-03
 Sample ID: Trench 2 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2530	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204569-04
 Sample ID: Trench 2 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3100	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204569-05
 Sample ID: Trench 3 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2820	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204569-06
 Sample ID: Trench 3 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3230	mg/kg	1	20.0	9253	9/20/02	CK

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204569
Project: 1877
Project Name: Pogo E.C. Hill #C-3
Location: Lea County, New Mexico

Approval: Raland K Tuttle 9-21-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204569

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003189-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204538-01	19500	10000	28000	85.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204538-01	19500	10000	28500	90.0%	1.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003189-04		5000	4960	99.2%	

ANALYTICAL REPORT

Prepared for:

**TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705**

Project: Pogo Producing Company/ Hill C-3
Spill

PO#:

Order#: G0204619

Report Date: 09/30/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204619
Project: 1877
Project Name: Pogo Producing Company/ Hill C-3 Spill
Location: Lea County

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204619-01	Trench 1 3.0'-3.5'	SOIL	9/24/02 9:20	9/25/02 16:40	plastic bag	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 6.5 C		
0204619-02	Trench 2 3.0'-3.5'	SOIL	9/24/02 9:10	9/25/02 16:40	plastic bag	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 6.5 C		
0204619-03	Trench 3 3.0'-3.5'	SOIL	9/24/02 9:15	9/25/02 16:40	plastic bag	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 6.5 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204619
Project: 1877
Project Name: Pogo Producing Company/ Hill C-3 Spill
Location: Lea County

Lab ID: 0204619-01
Sample ID: Trench 1 3.0'-3.5'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2020	mg/kg	1	20	9253	9/27/02	SB

Lab ID: 0204619-02
Sample ID: Trench 2 3.0'-3.5'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	3120	mg/kg	1	20	9253	9/27/02	SB

Lab ID: 0204619-03
Sample ID: Trench 3 3.0'-3.5'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1770	mg/kg	1	20	9253	9/27/02	SB

Approval: Raland K Tuttle 9-30-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204619

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003244-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204605-01	1350	1000	2340	99.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204605-01	1350	1000	2320	97.0%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003244-04		5000	4960	99.2%	

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: 1
ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Pogo Producing Company

SITE MANAGER: Tim Reed

PROJECT NO.: 1877

PROJECT NAME: Lee County Hill C-3 grill

LAB I.D. NUMBER: _____
DATE: _____ TIME: _____
MATRIX: _____
COMP.: _____
GRAB: _____

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS: _____
FILTERED (Y/N): _____
PRESERVATIVE METHOD:
HCL _____
HNO3 _____
ICE _____
NONE _____

BTX 8020/808
MTBE 8080/808
TPH 410.1 8015 MOD. TX1005
PAH 8270
RCRA Metals Ag As Ba Cd Cr Pb Hg Se
TCDF Metals Ag As Ba Cd Cr Pb Hg Se
TCDF Volatiles
TCDF Semi Volatiles
RCI
GC/MS Vol. 8240/8280/824
GC/MS Semi. Vol. 8270/825
PCB's 8080/808
Pest. 808/808
BOD, TSS, pH, TDS, Chloride
Gamma Spec.
Alpha Beta (Air)
PIM (Asbestos)

204619
01
02
03

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTX 8020/808	MTBE 8080/808	TPH 410.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCDF Metals Ag As Ba Cd Cr Pb Hg Se	TCDF Volatiles	TCDF Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Pest. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PIM (Asbestos)				
	9/24/02	0920				Trench 1 3.0'-3.5' south						X																					
	9/24/02	0910				Trench 2 3.0'-3.5' north						X																					
	9/24/02	0915				Trench 3 3.0-3.5' middle						X																					
						4 - south																											
						5 - middle																											
						6 - north																											

RELINQUISHED BY: (Signature) [Signature] Date: 9/25/02 Time: _____

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

SAMPLED BY: (Print & Sign) Tim Reed Date: 9/24/02 Time: 1045

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

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

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

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

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

HIGHLANDER CONTACT PERSON: Tim Reed Results by: _____

RECEIVING LABORATORY: Enviro Labs TX ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____ CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature) [Signature] DATE: 9/25/02 TIME: 16:40

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: Plas-t. c bags 6.5°C

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

REMARKS: _____

ANALYTICAL REPORT

Prepared for:

**TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705**

Project: Pogo Producing/E.C. Hill #C-3 Spill

PO#:

Order#: G0204683

Report Date: 10/04/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204683
Project: 1877
Project Name: Pogo Producing/E.C. Hill #C-3 Spill
Location: Lea County

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204683-01	Trench 4 1.0'	SOIL	10/1/02 9:30	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-02	Trench 4 2.0'	SOIL	10/1/02 9:35	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-03	Trench 4 3.0'	SOIL	10/1/02 9:40	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-04	Trench 5 1.0'	SOIL	10/1/02 9:50	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-05	Trench 5 2.0'	SOIL	10/1/02 9:55	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-06	Trench 5 3.0'	SOIL	10/1/02 10:00	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-07	Trench 6 1.0'	SOIL	10/1/02 10:05	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		
0204683-08	Trench 6 2.0'	SOIL	10/1/02 10:10	10/1/02 14:15	Plastic Bag	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 32.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
915-682-3946

Order#: G0204683
Project: 1877
Project Name: Pogo Producing/E.C. Hill #C-3 Spill
Location: Lea County

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204683-09	Trench 6 3.0'	SOIL	10/1/02 10:15	10/1/02 14:15	Plastic Bag	None
<u>Lab Testing:</u> Chloride		Rejected: No	Temp: 32.5 C			

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204683
Project: 1877
Project Name: Pogo Producing/E.C. Hill #C-3 Spill
Location: Lea County

Lab ID: 0204683-01
Sample ID: Trench 4 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	4790	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-02
Sample ID: Trench 4 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2840	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-03
Sample ID: Trench 4 3.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2270	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-04
Sample ID: Trench 5 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	514	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-05
Sample ID: Trench 5 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	<20.0	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-06
Sample ID: Trench 5 3.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	<20.0	mg/kg	1	20	9253	10/4/02	SB

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

TIM REED
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Order#: G0204683
Project: 1877
Project Name: Pogo Producing/E.C. Hill #C-3 Spill
Location: Lea County

Lab ID: 0204683-07
Sample ID: Trench 6 1.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	2690	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-08
Sample ID: Trench 6 2.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	177	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204683-09
Sample ID: Trench 6 3.0'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	<20.0	mg/kg	1	20	9253	10/4/02	SB

Approval: Jeanne McMurrey 10-07-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204683

<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003347-01			<20.0		
<i>MS</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204661-01	354	1000	1350	99.6%	
<i>MSD</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204661-01	354	1000	1330	97.6%	1.5%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003347-04		5000	4960	99.2%	

ANALYTICAL REPORT

Prepared for:

IKE TAVAREZ
HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705

Project: Pogo / E.C. Hill #C-3 Spill

PO#:

Order#: G0204771

Report Date: 10/16/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.
1910 N. BIG SPRING STREET
MIDLAND, TX 79705
682-3946

Order#: G0204771
Project: 1877
Project Name: Pogo / E.C. Hill #C-3 Spill
Location: Lea County, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204771-01	Trench #4 (4.0')	SOIL	10/15/02	10/15/02 14:50	4 oz Glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 3 C		
0204771-02	Trench #4 (5.0')	SOIL	10/15/02	10/15/02 14:50	4 oz Glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 3 C		
0204771-03	Trench #4 (6.0')	SOIL	10/15/02	10/15/02 14:50	4 oz Glass	Ice
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 3 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

IKE TAVAREZ
 HIGHLANDER ENVIRONMENTAL CORP.
 1910 N. BIG SPRING STREET
 MIDLAND, TX 79705

Order#: G0204771
 Project: 1877
 Project Name: Pogo / E.C. Hill #C-3 Spill
 Location: Lea County, NM

Lab ID: 0204771-01
 Sample ID: Trench #4 (4.0')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1740	mg/kg	1	20	9253	10/16/02	SB

Lab ID: 0204771-02
 Sample ID: Trench #4 (5.0')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	744	mg/kg	1	20	9253	10/16/02	SB

Lab ID: 0204771-03
 Sample ID: Trench #4 (6.0')

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	106	mg/kg	1	20	9253	10/16/02	SB

Approval: *Jeanne McMurray* 10-16-02
 Ralene K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurray, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204771

<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003445-01			<20.0		
<i>MS</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204771-01	1740	1000	2730	95.3%	
<i>MSD</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204771-01	1740	1000	2710	97.3%	0.7%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003445-04		5000	4960	99.2%	

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559

Fax (915) 682-3948

PAGE: / OF: /

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Pogo			SITE MANAGER: KE Towner																																	
PROJECT NO.: 1877			PROJECT NAME: P090/B.C. Hill # C-3 Spill. Lea County, Tex.																																	
LAB ID. NUMBER 0204771	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	STEX 8080/802	MTSS 8080/804	TPH 418.1	8016 MTD.	TRIOES	PAH 8870	RCRA Metals Ag As Ba Cd Cr Pb Rg Se	TCLP Metals Ag As Ba Cd Cr Pb Rg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	CC.MS Vol. 8840/8880/884	CC.MS Semi. Vol. 8870/885	PCB's 8080/808	Pest. 808/809	ROD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Arbitration)					
01	10/15/02		S			Trench #4 (4.0')	1				/																									
02	10/15/02		S			Trench #4 (5.0')	1				/																									
03	10/15/02		S			Trench #4 (6.0')	1				/																									
RELINQUISHED BY: (Signature) <i>[Signature]</i>			Date: 10/15/02	RECEIVED BY: (Signature) <i>[Signature]</i>			Date: 10/15/02	SAMPLED BY: (Print & Sign) KE Towner												Date: _____																
RELINQUISHED BY: (Signature)			Date: _____	RECEIVED BY: (Signature)			Date: _____	SAMPLE SHIPPED BY: (Circle)												Date: _____																
RELINQUISHED BY: (Signature)			Date: _____	RECEIVED BY: (Signature)			Date: _____	FEDEX <input type="checkbox"/> HAND DELIVERED <input type="checkbox"/>												AIRBILL # _____																
RECEIVING LABORATORY: Enviro. Cos. TX			RECEIVED BY: (Signature)			HIGHLANDER CONTACT PERSON: KE Towner												Result by: _____																		
CITY: _____ STATE: _____ ZIP: _____			DATE: _____ TIME: _____			REMARKS: 3 C 4oz GLASS												RUSH Charges Authorized: _____																		
CONTACT: _____ PHONE: _____			DATE: _____ TIME: _____															Yes No																		

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.

Doc 18 02 10:39a

P. 5

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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 : Arch/Pogo Producing Company	Contact: Rex Jasper
Address: 300 N. Marienfeld St. Midland, Tx	Telephone No.: (915) 685-8100
Facility Name: E.C. Hill C-3	Facility Type: Producing Well

Surface Owner: D.K. Boyd	Mineral Owner:	Lease No.
--------------------------	----------------	-----------

LOCATION OF RELEASE

API 30 025 35365 004

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	27	23S	37E	1950	S	990	W	Lea County

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: 0 bbls
Source of Release: 3" Poly Line	Date and Hour of Occurrence: 8/28/02	Date and Hour of Discovery: 8/28/02 6:00 A.M.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD -	
By Whom?	Date and Hour: 8/28/02 12:45 A.M.	
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.*
NA

Describe Cause of Problem and Remedial Action Taken.* A split in a 3" poly line occurred while supplying water to a drilling rig. Produced water ran down side of main road and into a pasture.

Describe Area Affected and Cleanup Action Taken.*

The affected area is described in the assessment and closure report. The impacted material was excavated and hauled to a proper disposal facility and samples were taken to confirm proper clean up levels were obtained.

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

Signature: <i>Tim Reed (Agent for Pogo)</i>	OIL CONSERVATION DIVISION		
Printed Name: <i>Tim Reed</i>	Approved by District Supervisor:		
Title: <i>Vice President - Highlander Enviro.</i>	Approval Date:	Expiration Date:	
Date: <i>11/01/02</i>	Phone: <i>915-682-4559</i>	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary