

Highlander Environmental Corp.

November 4, 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 at the Pogo Producing Company, Secton Tank Battery #1, Section 21, 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 Secton Tank Battery #1 location in Lea County, New Mexico (Site). The Site is located in Section 21, Township 23 South, Range 37 East, Unit Letter G. The State of New Mexico C-141 (Initial) is shown in Appendix A. The Site is shown in Figure 1.

According to published data, groundwater in the area is greater than 50 feet below surface. The State of New Mexico Well Reports did not show any water wells in Section 21, Water wells were shown in Section 9, 16, and 32 with an average groundwater depth of approximately 100' below surface. State of New Mexico Well Reports are shown 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

On September 23, 2002, a spill occurred when the transfer pump failed and the water tank ran over. The spill area was contained inside the tank battery dike. A small amount of fluids spilled over onto the lease road. The overall dimensions of the spill area measured approximately $45' \times 65'$. An unknown volume of produced water was released and 60 barrels recovered. The spill area is shown in Figure 2.

Assessment

On September 24, 2002, Highlander personnel collected soil samples from the spill area using a stainless steel, bucket type hand auger. A total of three (3) auger holes (AH) were installed to define the extent of the impact. All of the auger holes were installed inside the tank battery dike area. The spill area and auger hole locations are shown in Figure 2. Soil samples were collected at selected depth to a total depth of 3.0' below surface. Soil samples collected from the spill area were evaluated for Total Petroleum Hydrocarbon (TPH) by method 8015M, BTEX by method 8015B/5030 and chloride by method SW 846-9252. The soil samples results are shown in Table 1. The laboratory reports and the chain of custody documentation are included in Appendix C.

Samples	Samples B T		Е	X	Total		Chloride		
ID					BTEX	GRO	DRO	Total	
AH-1 (0'-1')	10.2	154	148	234.4	546.6	6,490	8,460	14,950	4,750
AH-1 (1'-2')	-	-	-	_	-	34.7	102	137	1,100
AH-1 (2'-3')		-	-	-	-		-		(1,560)
AH-2 (0'-1')	3.52	88.8	77.2	139.4	308.92	3,890	7,370	11,260	2,480
AH-2 (1'-2')	-		-	_		33.7	97.9	132	2,340
AH-2 (2'-3')	-			· _	-	_	_	-	<886->
AH-3 (0'-1')	29.8	201	224	289.9	753.7	10,900	14,900	25,800	2,480
AH-3 (1'-2')	< 0.050	3.87	0.612	7.7	12.182	332	834	1,116	514
AH-3 (2'-2.5')		-	_	-	-	109	392	501	<408 ^{>}

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(-) Not Analyzed

Based on the results, the impact at the Site appears to be shallow and confined to a depth of 1.0' below surface. The soil samples at 1-2' below surface showed TPH levels decreasing below RRAL, except for AH-3 (1-2'), which showed a total TPH of 1,116 mg/kg. The deeper sample at 2-2.5' dropped to 510 mg/kg. One sample, AH-3 (1'-2'), was selected for an additional BTEX analysis and showed levels below the RRAL. The chloride detected showed a decreasing levels with depth. AH-1 (2'-3'), AH-2 (2'-3') and AH-3 (2'-3') bottom hole samples showed chloride levels 1,560 mg/kg, 886 mg/kg and 408 mg/kg, respectively.

Corrective Action

Based upon the results of the sampling, it was decided to begin excavation of the impacted soils inside the bermed tank battery. The small spill area on the lease road was scraped and back dragged with the backhoe. From October 15 to 17, 2002, Key Energy Services excavated the impacted soil from the tank battery and hauled the soil to Sundance Services, Inc. in Eunice, New Mexico. The soil was excavated by hand to a depth 1.0' below surface. Approximately 108 cubic yards was removed and disposed of at Sundance. The excavated area is shown in Figure 2.

On October 24, 2002, Highlander personnel applied a treatment of Micro-Blaze to the bottom of the excavation to remediate and aid in the degradation of any hydrocarbon residue inside the tank battery dike. The excavation had been backfilled with clean fill material.

Conclusions

- 1. According to published data, groundwater in the area is greater than 50 feet below surface. The State of New Mexico Well Reports did not show any water wells in Section 21, Water wells were shown in Section 9, 16, and 32 with an average ground water depth of approximately 100' 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.
- 3. The soil assessment revealed a shallow impact to a depth of 1.0' below surface. The TPH and BTEX levels were above the RRAL from 0-1' below surface, however, the soil samples at 1-2' and 2'-3' below surface showed TPH levels below the RRAL.
- 4. The chloride levels showed significant decrease with depth. AH-1 (2'-3'), AH-2 (2'-3') and AH-3 (2'-3') bottom hole samples showed chloride levels 1,560 mg/kg, 886 mg/kg and 408 mg/kg, respectively. Based on the results, the chloride levels are not considered an environmental concern.
- 5. The impacted soil, exceeding the RRAL was excavated to a depth of 1.0' below surface. Approximately 108 cubic yards was removed and disposed of at Sundance Services, Inc. in Eunice, New Mexico. In addition, a treatment of Micro-Blaze was applied to the bottom of the excavation to remediate and aid in the degradation of any hydrocarbon residue inside the tank battery dike. The excavation has been backfilled with clean fill material and closed.

Recommendation

1. Based on the results and remedial action performed at the Site, Pogo Producing Company proposes 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/closure report, please call.

Very july yours Ike Tavarez

Project Manager/Geologist

cc:

Rex Jasper - Pogo Producing Don Riggs - Pogo Producing

FIGURES

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APPENDIX A

District I (505) 393-616: State of P. O. Box 1980 Hotbs: NM 88241-1980 Energy Minerals and N	New Mexico		Form C- 141 Originated 2/13/97
Old Conse 811 South First Oil Conse Artesia, NM 89210 2040 Sou	Submit 2 copies to		
	New Mexico 97505 5) 827-7131		Apptopriate District Office in accordance with Rule 116 on back side of form
	ion and Corrective Ac		
	OPERATOR		Initial Report - EFinal Report
NAME ARCH Pet-TNC.	Contact	SARY L	
EUNICE NAM.	Telephone Na.	915-	631-0134
Faulty State SEETON	Facility Type	TANKB	P71
Surface Owner Mineral Owner BINO SAIMANS		······	Lesse No. M'/A
LOCATIC	ON OF RELEASE		
L'air Letter Section Township Range Feet From die NordvSouth		est Line County	A
			· · · · · · · · · · · · · · · · · · ·
Type of Reicase	E OF RELEASE		Volume Recovered
SAH water	N	<u>/A</u>	60
5 TOCK TANK	Date and Hour of	Occurrence	Date and Hour of Discovery
Way invited ate Notice Given?	U YES, TO WHOM		⁹ 1.23/02 10:30
By Whom?		SILVIADIC	Huy - Lift mussness
CARY WEILS	Date and Hour	9/23/02	17:30 P.M.
No a Watersourse Reached? Yes Yos No	U YES, Volume In	npacting the Waterco	
If a Watermune was Impacted, Desenbe Fully (Attach Additional Shoots If Neucas	ery)		
Dentitie Cause of Problem and Remedial Action Taken (Attach Additional Sheers I RAN TANK CLUSS - Deron is EN Augo D	(Necessary) TRANSFO	n Pump q	wite warking
KANTANK CUER - REPAIRED PUER P.		v	•
Describe Area Affected and Cleanum Action Taken (Attach Addition of Share, 16 No.			- 3
PORD. P.U. FL. OFF GROUND, WAIt ON	Justeuctien		
			- r
	5		
Thereby certify that the information given above is true and complete to the best of my k on required to spont active file certain release notifications and perform corrective action a Could report by the DMOCD marked at Final Report does not relieve the operation to contamination on a pose a threat to ground water, sufface water, human health or the end	nowledge and understand that pu ns for releases which may endang (liability should their operations for another of a diffusion DMC(07)	er public health or the	environment. The seceptance of
I hereby certify that the unformation given above is true and complete to the best of my k are required to report and/or file certain release notifications and perform corrective action	nowledge and understand that pu ns for releases which may endang (liability should their operations for another of a diffusion DMC(07)	er public health or the	environment. The seceptance of
Thereby certify that the information given above is true and complete to the best of my k on required to spont active file certain release notifications and perform corrective action a Could report by the DMOCD marked at Final Report does not relieve the operation to contamination on a pose a threat to ground water, sufface water, human health or the end	nowledge and understand that pu ns for releases which may endang (liability should their operations fronment. In addition. NMOCO d/or regulations.	er public health or the	environment. The acceptance of nery investigate and remediate It report does not relieve the
Thereby cerufy that the unformation given above is true and complete to the best of my k are required to rypoin and/or file ceruin release notifications and perform corrective actio a C-r41 report by the OMOCD marked a "Final Report" does not relieve the operator to obitamination that pose a threat to ground water, surface water, human health or the em- operator of responsibility for compliance with any other federal, state, or local laws an	nowfedge and understand that pures for releases which may ending fusbility should their operations fronment. In addition. NMOCO d/or regulations.	er public health or th have falled to adequa l acceptance of a C-14	environment. The acceptance of nery investigate and remediate It report does not relieve the
Thereby cerufy that the information given above is true and complete to the best of my k in required to spont archor file ceruin release notifications and perform corrective action a C+41 report by the DMOCD marked a "Final Report" does not relieve the operator to contamination was pose a threat to ground water, surface water, human health or the em- operator of responsibility for compliance with any other federal, state, or local laws an similar does a threat to ground with any other federal, state, or local laws an similar of the sponsibility of the compliance with any other federal, state, or local laws and similar does a state of the sponsibility of the	nowledge and understand that pures for releases which may enclange (Hability should their operations dronment. In addition, NMOCO d/or regulations.	er public health or th have failed to adequa acceptance of a C-14 DIL CONSERVATIO	environment. The acceptance of nery investigate and remediate It report does not relieve the

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State of New Mexico Energy Minerals and Natural Resources

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Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

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

Release Notification and Corrective Action

				(OPER	ATOR		🗌 In	itial Rep	ort 🔀 Final Repo
Name of Co	mpany :			ng Company		Contact: Rex Jasper				
Address:	· • • • • • • • • • • • • • • • • • • •	300 N. Mari	· · · · · · · · · · · · · · · · · · ·	Telephone No.: (915) 685-8100						
Facility Nan	ne:	Seeton Tank			Facility T	ype: Tank I	Battery		·····	
Surface Own	Surface Owner: D.K Boyd Mineral Owne								Lease	No.
				LOCAT	ION (OF RELE	EASE			
Unit Letter G					South Line	Feet from the	East/We	est Line	County Eddy County	
· ·	NATURE OF RELEASE									
Type of Relea	ase: water						Release: unknow	wn	Volum	e Recovered: 60 bbls
Source of Re	lease: Stoci	k Tank				1	lour of Occurrence	e:		d Hour of Discovery:
Was Immedia	te Notice C	liven?				NA	Whom? NMOC	D - Silve		<u>2 10:30</u>
a annould			Yes 🔲	No 🔲 Not Re	quired			$\mathbf{u} = \mathbf{u}$	- <i>ieji ill</i> e	JJUET
By Whom?	Gary Wells	(Pogo)				Date and H	lour: 9/23/01 12	2:30PM		
Was a Watero	Was a Watercourse Reached?					If YES, Volume Impacting the Watercourse.				
If a Watercou NA	irse was Im	pacted, Descri	ibe Fully.*	k		1				
		em and Reme king and ran ta		n Taken.*		<u> </u>				
Describe Are. The affected of facility.	a Affected a area and cl	and Cleanup A eanup are des	Action Tak	the Assessment/Clo	osure Re	eport. The im	pacted soil was e	excavated	and haule	ed to a proper disposal
and regulation endanger pub of liability sh water, human	ns all opera lic health o ould their o health or th	tors are requin or the environm operations hav he environmen	red to repo ment. The ve failed to nt. In add	ort and/or file certa acceptance of a C adequately invest	in releas -141 rep igate and ceptance	se notificatio ort by the N d remediate o	ns and perform co MOCD marked a contamination that	orrective a s "Final R t pose a th	eport" do nreat to gr	uant to NMOCD rules r releases which may es not relieve the operato ound water, surface of responsibility for
Signature:	The Dan	cy (A	genT	for Pogo)		OIL CONS		ΓΙΟΝ Ι	DIVISION
Printed Name	: IK	Ela	icre	2		Approved	by District Super-	visor:		
Title:	Geule	SIST				Approval I	Date:		Expiratio	n Date:
Date: 10/	25/02	-	Phone	915)682-4	1559	Conditions	of Approval:			Attached

⁴ Attach Additional Sheets If Necessary

APPENDIX B

	Page	l	of	1
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New Mexico Office of the State Engineer Well Reports and Downloads								
Township: 23S	Range: 37E	Sections:						
NAD27 X:	Y:	Zone:	Search Ra	idius:				
County:	Basin:		Number:	Suffix:				
Owner Name: (First)		(Last)	C Non-Do	omestic C Domestic C All				
Well / Surf	ace Data Repo		Avg Depth to	Water Report				
		ater Column R						
Called and the second se	Clear For	m WATERS	S Menu Help	. <u></u>				
AVERAGE DEPTH	OF WATER REPOR	RT 10/25/2002						

Bsn	Tws	Rng	Sec	Zone	x	Y	Wells	(Depth Min	Water i Max	n Feet) Avq
CP	23S	37Ē	09				1	100	100	100
CP	23S	37E	16				1	115	115	115
CP	23S	37E	32				1	106	106	106
	_									

Record Count: 3

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APPENDIX C

ANALYTICAL REPORT

Prepared for:

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

Project:Pogo Producing Co./ Secton TB #1PO#:G0204620Report Date:10/02/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.	Order#:	G0204620
1910 N. BIG SPRING STREET	Project:	1882
MIDLAND, TX 79705	Project Name:	Pogo Producing Co./ Secton TB #1
915-682-3946	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.

				Date / Time		nte / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>		Collected	<u> </u>	<u>Received</u>	Container	Preservative
0204620-01	AH-1 0-1'	SOIL		9/24/02 12:50		9/25/02 16:40	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	10 C		
	8015M							
	8021B/5030 BTEX							
. <u> </u>	Chloride							
0204620-02	AH-1 1'-2'	SOIL		9/24/02		9/25/02	4 oz glass	Ice
_			NI-	13:05		16:40		
La	<u>b Testing:</u>	Rejected:	NO	Т	emp:	10 C		
	8015M							
	Chloride							
0204620-03	AH-1 2'-3'	SOIL		9/24/02		9/25/02	4 oz glass	Ice
0204020-05				13:10		16:40	8	
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	10 C		
	Chloride							
0204620-04	AH-2 0-1'	SOIL		9/24/02		9/25/02	4 oz glass	Ice
				13:15		16:40		
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	10 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							· · · · · · · · · · · · · · · · · · ·
0204620-05	AH-2 1'-2'	SOIL		9/24/02		9/25/02	4 oz glass	Ice
0204020-03				13:20		16:40	0	
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	10 C		
	8015M							
	Chloride							
0204620-06	AH-2 2'-3'	SOIL		9/24/02		9/25/02	4 oz glass	Ice
_			NI.	13:25		16:40		
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	10 C		
	Chloride							
0204620-07	AH-3 0-1'	SOIL		9/24/02 13:40		9/25/02 16:40	4 oz giass	Ice
7	b Testing:	Rejected:	No		emp:	10 C		

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.	Order#:	G0204620
1910 N. BIG SPRING STREET	Project:	1882
MIDLAND, TX 79705	Project Name:	Pogo Producing Co./ Secton TB #1
915-682-3946	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> 8015M 8021B/5030 BTEX Chloride	<u>Matrix:</u>		Date / Time <u>Collected</u>	Date / Time <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204620-08	AH-3 1'-2'	SOIL		9/24/02 13:45	9/25/02 16:40	4 oz glass	Ice
La	<u>b Testing:</u>	Rejected:	No	Tem	p: 10 C		
	8015M						
	Chloride						99 A. 161
0204620-09	AH-3 2'-2.5'	SOIL		9/24/02 13:50	9/25/02 16:40	4 oz glass	Ice
La	b Testing:	Rejected:	No	Tem	p: 10 C		
	8015M						
	Chloride						

TIM REED HIGHLANDER ENVIRONMENTAL CORP.	Order#: Project:	G0204620 1882
1910 N. BIG SPRING STREET	Project Name:	
MIDLAND, TX 79705	Location:	Lea County

Lab ID: Sample ID: 0204620-01 AH-1 0-1'

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 9/27/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k		RL	
	GRO, C6-C12		6490)	50.0	

8460

14950

8021B/5030 BTEX

<u>Blank</u> <u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	Method
0003270-02	10/1/02 10:19	1	200	СК	8021B

Parameter	Result mg/kg	RL
Benzene	10.2	0.200
Ethylbenzene	154	0.200
Toluene	148	0.200
p/m-Xylene	166	0.200
o-Xylene	68.4	0.200

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	507%	80	120	
Bromofluorobenzene	118%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

DRO, >C12-C35

TOTAL, C6-C35

50.0

50.0

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TIM REED HIGHLANDER EN 1910 N. BIG SPRIN MIDLAND, TX 79	G STREET	CORP.		Order#: Project: Project Name: Location:	G0204 1882 Pogo Lea C	Producing Co	./ Secton TB #1
	0204620-02 AH-1 1'-2'						
			8	8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>		Dilution <u>Factor</u>	<u>Analyst</u>	Method
			9/27/02	1	1	СК	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		34.7		10.0	
		DRO, >C12-C35		102		10.0	
		TOTAL, C6-C35		137		10.0	
Lab ID:	0204620-04						
Sample ID:	AH-2 0-1' Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 9/27/02	8015M Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	<u>Method</u> 8015M
Sample ID:	Method		Date <u>Analyzed</u>	Sample <u>Amount</u>	Factor		
Sample ID:	Method	Prepared Parameter GRO, C6-C12	Date <u>Analyzed</u>	Sample <u>Amount</u> 1 Result mg/kg 3890	Factor	CK RL 50.0	
Sample ID:	Method	<u>Prepared</u> Parameter	Date <u>Analyzed</u>	Sample <u>Amount</u> 1 Result mg/kg	Factor	CK RL	

TIM REED	Order#:	G0204620
HIGHLANDER ENVIRONMENTAL CORP.	Project:	1882
1910 N. BIG SPRING STREET	Project Name:	Pogo Producing Co./ Seeton TB #1
MIDLAND, TX 79705	Location:	Lea County

8021B/5030 BTEX

Method <u>Blank</u> 0003270-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 10/1/02 11:41	Sample <u>Amount</u> I	Dilution <u>Factor</u> 200	<u>Analyst</u> CK	<u>Method</u> 8021B
	Parameter		Resu mg/k	1	RL	
	Benzene		3.52		0.200	
	Ethylbenzene		88.8		0.200	
	Toluene		77.2		0.200	
	p/m-Xylene		100		0.200	
	o-Xylene		39.4		0.200	

Surrogates	% Recovered	d QC Limits	
aaa-Toluene	179%	80	120
Bromofluorobenzene	114%	80	120

Lab ID:	
Sample ID:	

Lab ID:

Sample ID:

0204620-05 AH-2 1'-2'

0204620-04

AH-2 0-1'

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		9/27/02	1	1	СК	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	33.7	10.0
DRO, >C12-C35	97.9	10.0
TOTAL, C6-C35	132	10.0

TIM REED	Order#:	G0204620
HIGHLANDER ENVIRONMENTAL CORP.	Project:	1882
1910 N. BIG SPRING STREET	Project Name:	Pogo Producing Co./ Secton TB #1
MIDLAND, TX 79705	Location:	Lea County

Lab ID: Sample ID:

0204620-07 AH-3 0-1'

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 9/27/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 10	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	1	RL	
	GRO, C6-C12	· · · · · · · · · · · · · · · · · · ·	1090	0	100	
	DRO, >C12-C35		1490	0	100	

8021B/5030 BTEX

25800

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003270-02		10/1/02 12:03	1	200	СК	8021B

Parameter	Result mg/kg	RL
Benzene	29.8	0.200
Ethylbenzene	201	0.200
Toluene	224	0.200
p/m-Xylene	211	0.200
o-Xylene	87.9	0.200

Surrogates	% Recovered	QC Limits (%		
aaa-Toluene	720%	80	120	
Bromofluorobenzene	126%	80	120	

TOTAL, C6-C35

100

							•	
TIM REED HIGHLANDER 910 N. BIG SPR HIDLAND, TX		CORP.		1	Order#: Project: Project Name: Location:	188 : Po	204620 22 go Producing Co. 1 County	/ Secton TB #1
Lab ID: Sample ID:	0204620-08 AH-3 1'-2'							
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 9/27/02		5 <i>M</i> Sample <u>Amount</u> 1	Dilutio <u>Facto</u> 10		<u>Method</u> 8015M
		Parameter			Result mg/kg		RL	
		GRO, C6-C12			332		100	
		DRO, >C12-C35 TOTAL, C6-C35			834 1166		100	
Lab ID: Sample ID:	0204620-09 AH-3 2'-2.5' Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 10/2/02		5 <i>M</i> Sample Amount 1	Dilutio <u>Facto</u> 1		<u>Method</u> 8015M
		Parameter			Result mg/kg		RL	

alandk 10-02-02 Approval: Date

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.

10.0

10.0

10.0

109

392

501

 $DL \approx Diluted out$ N/A = Not Applicable RL = Reporting Limit

GRO, C6-C12

DRO, >C12-C35

TOTAL, C6-C35

Page 5 of 5

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

TIM REED HIGHLANDER ENVIRONMENTAL CORP. 1910 N. BIG SPRING STREET MIDLAND, TX 79705			Project: Project Name:		G0204620 1882 Pogo Producing Co./ Seeton TB #1 Lea County			
Lab ID: Sample ID:	0204620-01 AH-1 0-1'							
<i>Test Paran</i> Parameter	neters	Result	Units	Dilution Factor		Method	Date Analyzed	Analyst
Chloride		4750	mg/kg	1	20	9253	9/27/02	SB
Lab ID: Sample ID:	0204620-02 AH-1 1'-2'							
<i>Test Paran</i> Parameter	neters	Result	Units	Dilutior Factor		Method	Date Analyzed	Analyst
Chloride		1100	mg/kg	1	20	9253	9/27/02	SB
Lab ID: Sample ID:	0204620-03 AH-1 2'-3'							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>		Method	Date Analyzed	<u>Analyst</u>
Chloride		1560	mg/kg	1	20	9253	9/27/02	SB
Lab ID: Sample ID:	0204620-04 AH-2 0-1'		,					
Test Paran Parameter	neters	<u>Result</u>	<u>Units</u>	Dilution <u>Factor</u>		Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		2480	mg/kg	1	20	9253	9/27/02	SB
Lab ID: Sample ID:	0204620-05 AH-2 1'-2'							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>		Method	Date Analyzed	Analyst
Chloride		2340	mg/kg	1	20	9253	9/27/02	SB
Lab ID: Sample ID:	0204620-06 AH-2 2'-3'							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilution <u>Factor</u>		Method	Date Analyzed	Analyst
Chloride		886	mg/kg	1	20	9253	9/27/02	SB

TIM REED HIGHLANDER ENVIRONMENTAL CORP. 1910 N. BIG SPRING STREET MIDLAND, TX 79705			Order#: Project: Project Name: Location:		G0204620 1882 Pogo Producing Co./ Seeton TB #1 Lea County			
Lab ID:	0204620-07							
Sample ID:	АН-3 0-1'							
Test Paran	neters	Decult	11	Dilutio	-	Mathad	Date	A a lavad
Parameter		Result	<u>Units</u>	<u>Factor</u>	- —	Method	Analyzed	Analyst
Chloride		2480	mg/kg	1	20	9253	9/27/02	SB
Lab ID:	0204620-08							
Sample ID:	AH-3 1'-2'							
Test Paran	neters			Dilutio	n		Date	
<u>Parameter</u>		Result	Units	Factor	<u>: RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		514	mg/kg	1	20	9253	9/27/02	SB
Lab ID:	0204620-09				·····			
Sample ID:	AH-3 2'-2.5'							
Test Paran	neters			Dilutio	n		Date	
Parameter		Result	Units	Factor	-	Method	Analyzed	<u>Analyst</u>
Chloride		408	mg/kg	1	20	9253	9/27/02	SB

Approval: Kaland 10-03-02 Date

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.

RL = Reporting Limit N/A = Not Applicable

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0204620

BLANK so	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003250-02			<10.0		
FOTAL, C6-C35-mg/kg	0003275-02			<10.0		
CONTROL SO	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
fOTAL, C6-C35-mg/kg	0003250-03		952	1100	115.5%	
CONTROL DUP	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003250-04		952	1200	126.1%	8.7%
MS	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
FOTAL, C6-C35-mg/kg	0204680-02	0	952	1063	111.7%	
MSD so	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0204680-02	0	952	1135	119.2%	6.6%
SRM so	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003250-05		1000	1140	114.%	
TOTAL, C6-C35-mg/kg	0003275-05		1000	880	88.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX or

Order#:	G0204620
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BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	······	0003270-02	······		<0.025		
Ethylbenzene-mg/kg		0003270-02			<0.025		
Toluene-mg/kg		0003270-02			<0.025		
p/m-Xylene-mg/kg		0003270-02			<0.025		
o-Xylene-mg/kg		0003270-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204635-03	0	0.1	0.093	93.%	
Ethylbenzene-mg/kg		0204635-03	0	0.1	0.097	97.%	****
Toluene-mg/kg		0204635-03	0	0.1	0.097	97.%	
p/m-Xylene-mg/kg		0204635-03	0	0.2	0.207	103.5%	
o-Xylene-mg/kg		0204635-03	0	0.1	0.097	97.%	<u>.</u>
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204635-03	0	0.1	0.093	93.%	0.%
Ethylbenzene-mg/kg	`	0204635-03	0	0.1	0.100	100.%	3.%
Toluene-mg/kg		0204635-03	0	0.1	0.098	98.%	1.%
p/m-Xylene-mg/kg		0204635-03	0	0.2	0.212	106.%	2.4%
o-Xylene-mg/kg		0204635-03	0	0.1	0.098	98.%	1.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003270-05	· · · · ·	0.1	0.090	90.%	
Ethylbenzene-mg/kg	·····	0003270-05		0.1	0.093	93.%	
Toluene-mg/kg		0003270-05		0.1	0.095	95.%	
p/m-Xylene-mg/kg		0003270-05		0.2	0.198	99.%	
o-Xylene-mg/kg		0003270-05		0.1	0.093	93.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0204620

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.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204605-01	1350	1000	2320	97.%	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%	

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

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

Order#: G0204620 Project: Pogo Producing Co./ Seeton

TB #1

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
AH-1 0-1'	0204620-01	SOIL	09/24/2002	09/25/2002
AH-1 1'-2'	0204620-02	SOIL	09/24/2002	09/25/2002
AH-1 2'-3'	0204620-03	SOIL	09/24/2002	09/25/2002
AH-2 0-1'	0204620-04	SOIL	09/24/2002	09/25/2002
AH-2 1'-2'	0204620-05	SOIL	09/24/2002	09/25/2002
AH-2 2'-3'	0204620-06	SOIL	09/24/2002	09/25/2002
AH-3 0-1'	0204620-07	SOIL	09/24/2002	09/25/2002
AH-3 1'-2'	0204620-08	SOIL	09/24/2002	09/25/2002
AH-3 2'-2.5'	0204620-09	SOIL	09/24/2002	09/25/2002

Surrogate recoveries are outside control limits due to interference from coeluting compounds

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Date: 10-03-02

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	HIGHLANDER ENVIRON 1910 N. Big Sprin Midland, Texas 7 (915) 682-4559 CLEENT NAME: HOGO T COLUCING CO. PROJECT NO.: 802 PROJECT NAME: CLEA COUNTY Sector											oring St.											0007777	Cr Ph Hg Se	Pd Rg Se										
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Ì	PROJECT	NO.: 8	82	PRO	JECT	NAME: OUN	1				TB	#1	î		(N/A)			Ţ			202	908		Ag As	16 As	1988 Volation				808	pH, TDS,	6	(Altr) (Boil)		
1 ²⁰	LAB I.D. NUMBER	DATE	TIME	MATRIX COMP.			11				ATION				1 0		EONH	ICE	NONE		BTEX 8020/602	MTBE 8020/802	8	RCRA Metals	TCIP Metals	TCLP Volatiles		US Vol.	GC.MS Semi	Puert. 808/808	BOD, 138, p	s Spe	Alpha Bota PLM (Asbest	Were a	anan
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ł	RECETVING LABORATORY: CALING LAS THE ZIP:								BY: ((Signal	ture) [vz	C.	lu		ngé / K.		re 41	~ 2	HIGHLANDER CONTACT PERSON:								Results by: RUSH Charges Authorized:								
	SAMPLE CONDITION WHEN RECEIVED: MATRIX: W-Water								A-Air SL-Slu		SD-5	D-Solid SD-Solid O-Other SD-Solid SC-Solid							-р н с Т	9	reof 2-3		1, 0 K	2ns		ra PH	đ	-1-	2,		rea No VN deg				

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.

ANALYTICAL REPORT

Prepared for:

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

Project:Pogo Producing Co. / Secton TB#1PO#:

Order#: G0204705

Report Date: 10/08/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

HIGHLANDER ENVIRONMENTAL CORP.	Order#:	G0204705
1910 N. BIG SPRING STREET	Project:	1882
MIDLAND, TX 79705	Project Name:	Pogo Producing Co. / Secton TB#1
915-682-3946	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.

-			Date / Time	Date / Time		
Lab ID:	Sample :	Matrix:	<u>Collected</u>	Received	Container	<u>Preservative</u>
0204705-01	AH-3 1'-2'	SOIL	9/24/02 13:45	9/25/02 16:40	4 oz Glass	Ice
	9 <i>Testing:</i> 8021B/5030 BTEX	Rejected: No	Tem	»: 10 C		

TIM REED	Order#:	G0204705
HIGHLANDER ENVIRONMENTAL CORP.	Project:	1882
1910 N. BIG SPRING STREET	Project Name:	Pogo Producing Co. / Seeton TB#1
MIDLAND, TX 79705	Location:	Lea County

Lab ID: Sample ID:

0204705-01 AH-3 1'-2'

		8021B	x/5030 BTEX	ζ		
Method <u>Blank</u> 0003374-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 10/5/02 14:41	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	<u>Method</u> 8021B
	Parameter		Resu mg/k	1	RL	
	Benzene		<0.02	5	0.025	
	Ethylbenzene		3.87		0.025	
	Toluene		0.612	2	0.025	
	p/m-Xylene		5.25		0.025	
	o-Xylene	· · · · · · · · · · · · · · · · · · ·	2.45	;	0.025	

Surrogates	% Recovered	QC Limits (%)						
aaa-Toluene	86%	80	120					
Bromofluorobenzene	99%	80	120					

10-09-02 Date

Approval: Jean MMMey Raland K. Tutle, Lab Director, QA Officer J Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX or

Order#: G0204705

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003374-02			<0.025		
Ethylbenzene-mg/kg		0003374-02			<0.025		
Toluene-mg/kg		0003374-02			<0.025		
p/m-Xylene-mg/kg		0003374-02			<0.025		
o-Xylene-mg/kg		0003374-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204712-01	0	0.1	0.088	88.%	
Ethylbenzene-mg/kg		0204712-01	0	0.1	0.091	91.%	
Toluene-mg/kg		0204712-01	0	0.1	0.090	90.%	
p/m-Xylene-mg/kg		0204712-01	0	0.2	0.194	97.%	
o-Xylene-mg/kg		0204712-01	0	0.1	0.091	91.%	
MSD	SOIL	LAB-1D#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204712-01	0	0.1	0.097	97.%	9.7%
Ethylbenzene-mg/kg		0204712-01	0	0.1	0.100	100.%	9.4%
Toluene-mg/kg		0204712-01	0	0.1	0.099	99.%	9.5%
p/m-Xylene-mg/kg		0204712-01	0	0.2	0.212	106.%	8.9%
o-Xylene-mg/kg		0204712-01	0	0.1	0.100	100.%	9.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	<u></u>	0003374-05		0.1	0.088	88.%	
Ethylbenzene-mg/kg		0003374-05		0.1	0.093	93.%	
Toluene-mg/kg		0003374-05		0.1	0.091	91.%	
p/m-Xylene-mg/kg		0003374-05		0.2	0.198	99.%	
o-Xylene-mg/kg		0003374-05		0.1	0.094	94.%	

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Here	LAB I.D. NUMBER	DATE	TIME	MATRIX COMP.	GRAB		SAMPI	LE IDEN	TIFICATIO.	N	NUMBER 0		HCL	HINOS	ICE	NONE	BTEX)8020/		PAH 6270	RCRA Meta	TCLP Metals	TCLP Semi		GC.MS Vol. 8240/	PCB's 8080	Past. 808/808	BOD, TSS, pH.	Gamma Spec. Alpha Beta (PLN (Asbe	Kin		
	01	9/24/02	1250			AH-	·	0	-1	. <u></u>	1				X		X		X											X		
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Į	SAMPLE CONDITION WHEN RECEIVED: MATRIX: W-Tater A-Air SD-Solid /() S-Solid SL-Sludge 0-Other Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander I															If														•		

e Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting received