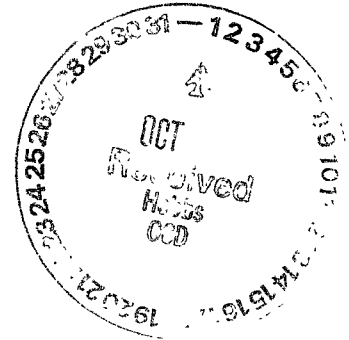




Highlander Environmental Corp.

Midland, Texas

August 27, 2007



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

Re: **Assessment and Closure Report for the Pogo Producing Company, G.H. Mattix Transfer Line Release Located in Unit E, Section 34, Township 23 South, Range 37 East, Lea County, New Mexico.**

② EVA BLINEBRY FED # 1

RP # 1443

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Pogo Producing Company (Pogo) to assess a spill from the G.H. Mattix Transfer Line, located in Unit E, Section 34, Township 23 South, Range 37 East, Lea County, New Mexico (Site). The spill site coordinates are N 32° 15.522', W 103° 08.656'. According to the State of New Mexico C-141 Initial Report, approximately 150 barrels (bbls) of produced water were released from a water transfer line rupture which occurred when a plugging unit ran over the line on April 8, 2007. A total of 135 bbls of water were recovered. The C-141 (Initial) listed the site as the Eva Blinebry Federal #1 well, which is the adjacent well location, when in fact the water transfer line originates at the G.H. Mattix lease. A copy of the State of New Mexico C-141 (Initial), a C- 141 (amended), and the C-141 (Final) are included in Appendix C. The Site is shown on Figure 1 and 2.

Groundwater and Regulatory

The New Mexico State Engineer's Office database showed no water wells located within Section 34, Township 23 South, Range 37 East. There was one well listed in Section 32 with a reported depth to water of 106'. Additionally, there were wells shown in Sections 28, 32 and 33 in the USGS groundwater database with reported depths to water of 117', 97' and 87' below ground surface (bgs). The New Mexico State Engineer water well reports and USGS groundwater database reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil

Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Assessment and Results

On April 13, 2007, Highlander personnel inspected and sampled the spill area. The spill area measured approximately 25' x 40'. A total of three (3) auger holes (AH-1, AH-2, and AH-3) were installed using a stainless steel hand auger to assess the impacted soils. Samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Select samples were analyzed for BTEX by EPA Method 8021B. Of the samples collected, all of the TPH and BTEX concentrations were below the RRAL. The chloride concentrations ranged from 302 mg/kg (AH-2 at 0-1.0') to 5,180 mg/kg (AH-2 at 4'-4.5'). Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix B. The auger hole locations are shown on Figure 2. The results of the sampling are summarized in Table 1.

Based upon the results, Highlander supervised the removal of approximately 4.5' of soil in the spill area between May 2 and May 14, 2007. The removal was performed over several days due to inclement weather. As an area was excavated, an additional auger was placed to further evaluate subsurface conditions. The soils were hauled to Sundance Services in Eunice, New Mexico for disposal. The three new auger holes (AH-1A, AH-2A, AH-3A) were advanced to 10.5' below excavation bottom (BEB) and samples were collected for chloride analysis. The Chloride concentrations in AH-1 and AH-2 decreased with depth to 313 mg/kg and 282 mg/kg, respectively. The vertical extent of chloride impact was not defined in AH-3. On June 6, 2007, a backhoe was used to collect samples from 12.0' to 14.5' BEB for delineation. The chloride concentrations decreased to 137 mg/kg at 14.5'. The sample results are summarized in Table 2. The auger hole locations are shown on Figure 3.

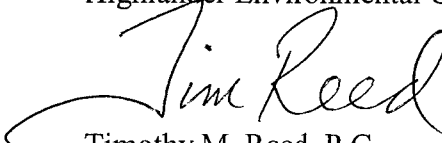
Conclusions

The impact was confined to 25' x 40' area south of the transfer line. The 4.5' of soil, representing the highest chloride concentrations was removed and hauled to disposal. The remaining chloride concentrations decline with depth. Based on the depth to groundwater, the limited aerial extent and chloride concentration decline, the residual chloride concentrations do not appear to be an imminent threat to groundwater. Additionally, the impacted soil has been removed well below the root zone.



Based upon the results of the work performed at this site, Pogo requests closure of this Site. If you require any additional information or have any questions or comments concerning the assessment/closure report, please call at (432) 682-4559.

Respectfully submitted,
Highlander Environmental Corp.



Timothy M. Reed, P.G.
Vice President

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



SITE INFORMATION

RP # 1443

Report Type: CLOSURE REPORT

General Site Information:

Site:	G.H. Mattix Transfer Line ⑨ EVA BLINEBY FED #1
Company:	Pogo Producing Company ⑧ F
Line Location:	Section 34, T23S R37E
Spill Location:	Section 34, T23S R37E
Unit Letter:	Unit E
Lease Number:	
County:	Lea
Spill GPS:	32° 15.522', 103° 08.656'
Surface Owner:	
Mineral Owner:	
Directions:	

Release Data:

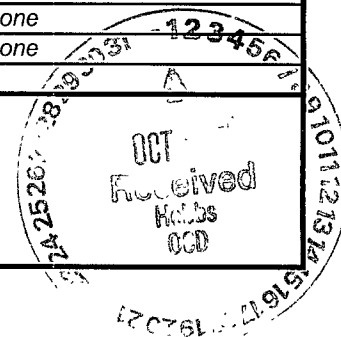
Date Released:	4/8/2007
Type Release:	Produced Water
Source of Contamination:	Pulling Unit ran over transfer line
Fluid Released:	150 bbls
Fluids Recovered:	135bbls

Official Communication:

Name:	Pat Ellis	Don Riggs	Ike Tavaréz
Company:	Pogo Producing Company	Pogo Producing Company	Highlander Environmental Corp.
Address:	300 N. Marienfeld St.	5 Greenway Plaza, Suite 2700	1910 N. Big Spring
P.O. Box	Box 10340		
City:	Midland Texas, 79701-7340	Houston, Texas 77046	Midland, Texas
Phone number:	(432) 685-8100	(713) 297-5045	(432) 682- 4559
Email:	EllisP@pogoproducing.com	riggsd@pogoproducing.com	itavarez@hec-enviro.com

Ranking Criteria

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



FIGURES

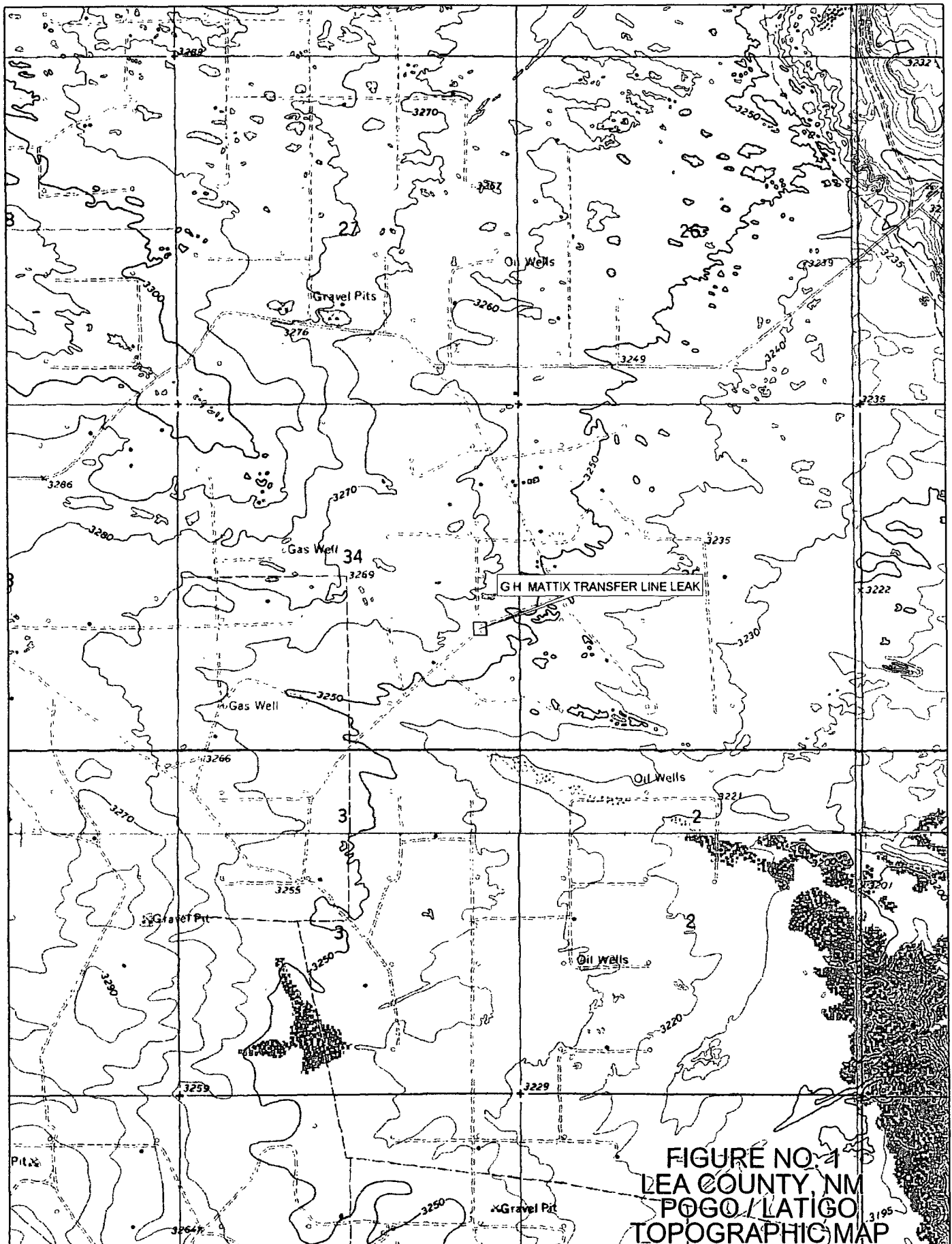
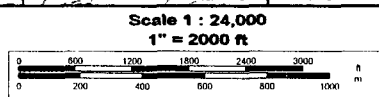
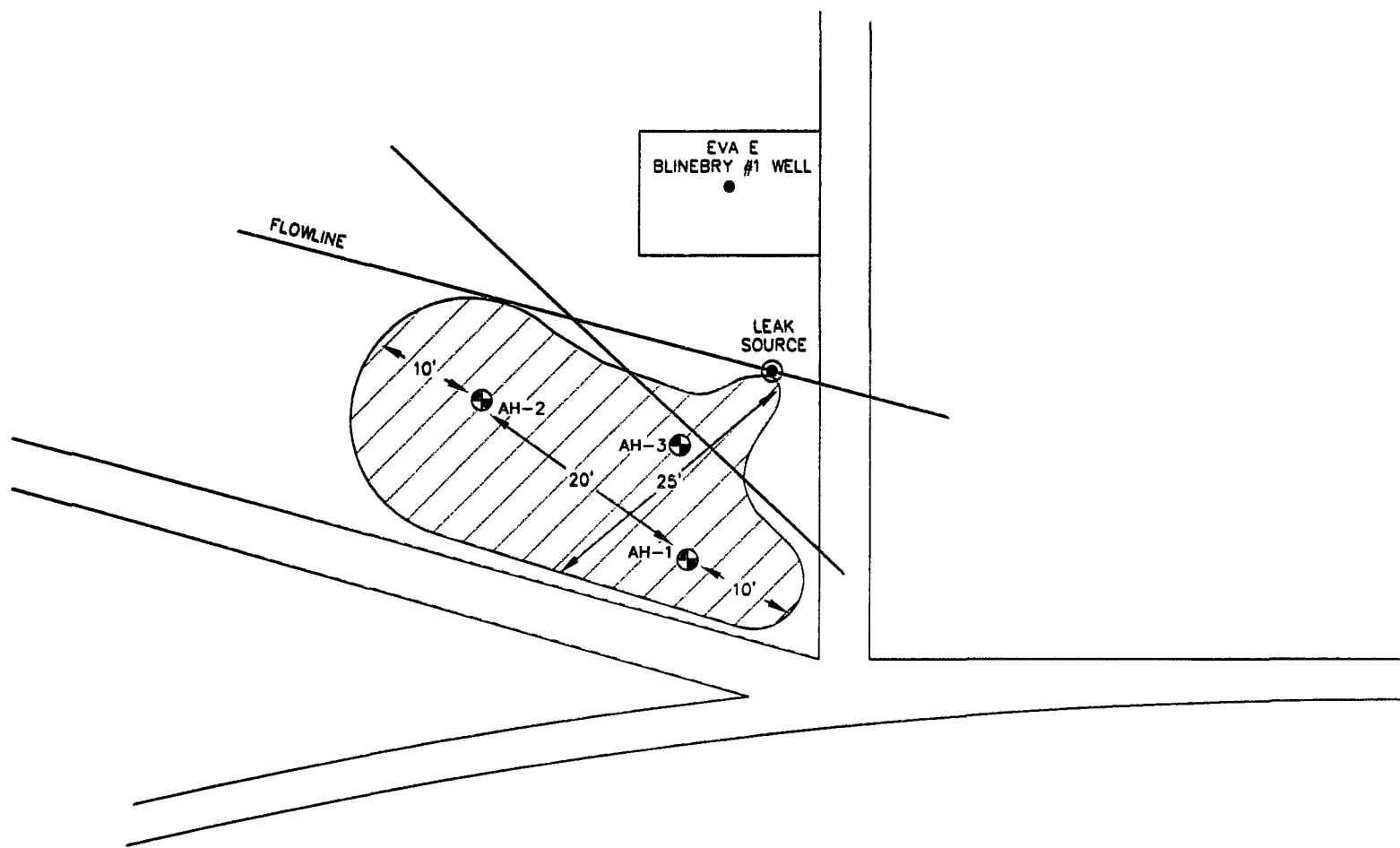
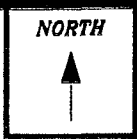


FIGURE NO. 4
LEA COUNTY, NM
POGO/LATIGO
TOPOGRAPHIC MAP



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www.delorme.com





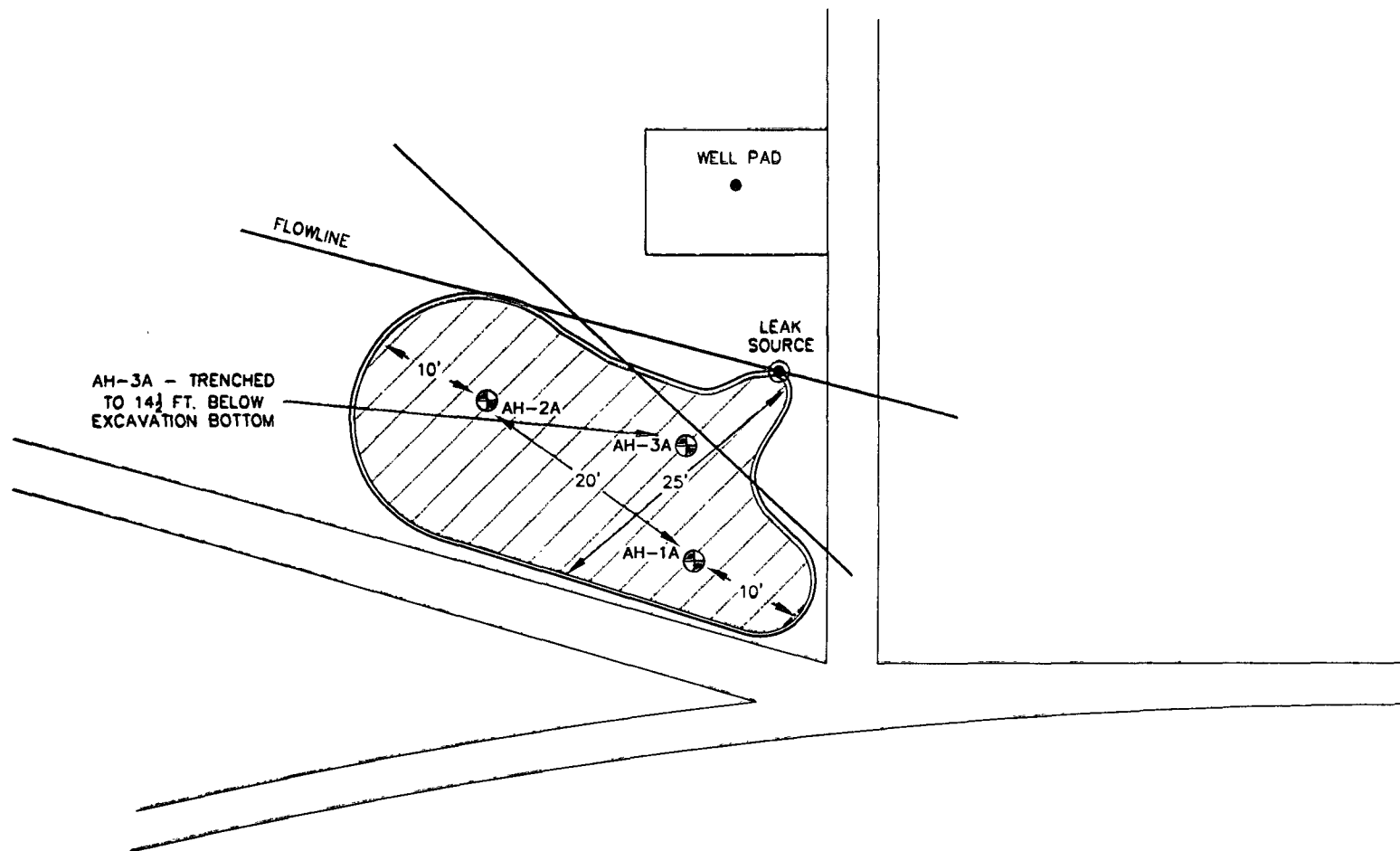
	SPILL AREA
	AUGER HOLES

DATE: 7/26/07
DWN. BY. RC
FILE: C:\POGO\2006 G.H. MATTIX

NOT TO SCALE

FIGURE NO. 2
LEA COUNTY, NEW MEXICO
POGO / LATIGO G.H. MATTIX TRANS. LINE LEAK
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS

NORTH



□ DEPTH 4 1/2 EXCAVATED

▨ SPILL AREA

⊕ AUGER HOLES

NOT TO SCALE

DATE:
7/26/07
DWN. BY
RC
FILE:
C:\POGO\2906
G.H. MATTIX

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

POGO / LATIGO
G.H. MATTIX TRANS. LINE LEAK

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

TABLES

Table 1
Pogo Producing Company
G.H. Mattix Transfer Line Leak
Lea County, New Mexico

Sample ID	Soils Status		Date Sampled	Sample Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
	Insitu	Removed			DRO	GRO	Total					
AH-1		X	4/13/2007	0-1.0'	<50.0	27.2	27.2	<0.0100	<0.0100	<0.0100	0.0310	607
AH-1		X	4/13/2007	1'-1.5'	-	-	-	-	-	-	-	1,160
AH-1		X	4/13/2007	2'-2.5'	-	-	-	-	-	-	-	1,200
AH-1		X	4/13/2007	4'-4.5'	-	-	-	-	-	-	-	5,250
AH-1	X		4/13/2007	6'-6.5'	-	-	-	-	-	-	-	2,460
AH-2		X	4/13/2007	0-1.0'	232	14.9	246.9	<0.0100	<0.0100	<0.0100	0.0478	302
AH-2		X	4/13/2007	1'-1.5'	-	-	-	-	-	-	-	1,140
AH-2		X	4/13/2007	2'-2.5'	-	-	-	-	-	-	-	1,310
AH-2		X	4/13/2007	4'-4.5'	-	-	-	-	-	-	-	5,180
AH-2	X		4/13/2007	6'-6.5'	-	-	-	-	-	-	-	4,870
AH-3		X	4/13/2007	0-1.0'	<50.0	10		-	-	-	-	891
AH-3		X	4/13/2007	1'-1.5'	-	-	-	-	-	-	-	1,020
AH-3		X	4/13/2007	2'-2.5'	-	-	-	-	-	-	-	1,020
AH-3		X	4/13/2007	4'-4.5'	-	-	-	-	-	-	-	2,370
AH-3	X		4/13/2007	6'-6.5'	-	-	-	-	-	-	-	4,440

281-370-6580
 Alan Kane
 w/ Gpacho?

(-) Not Analyzed

Table 2
Pogo Producing Company
G.H. Mattix Transfer Line Leak
Lea County, New Mexico

Sample ID	Soils Status		Date Sampled	Depth of Excavation	Sample Depth (ft) Below Excavation Bottom	Chloride (mg/kg)
	Insitu	Removed				
AH-1A	X		5/8/2007	4.5	0-1.0' BEB	17.5
AH-1A	X		5/8/2007		2'-2.5' BEB	30.4
AH-1A	X		5/8/2007		4'-4.5' BEB	1760
AH-1A	X		5/8/2007		6'-6.5' BEB	2320
AH-1A	X		5/8/2007		8'-8.5' BEB	1720
AH-1A	X		5/8/2007		10'-10.5' BEB	313
AH-2A	X		5/2/2007	4.5	0-1.0' BEB	714
AH-2A	X		5/2/2007		2'-2.5' BEB	2260
AH-2A	X		5/2/2007		4'-4.5' BEB	584
AH-2A	X		5/2/2007		6'-6.5' BEB	1130
AH-2A	X		5/2/2007		8'-8.5' BEB	725
AH-2A	X		5/2/2007		10'-10.5' BEB	282
AH-3A	X		5/14/2007		0-1.0' BEB	10.8
AH-3A	X		5/14/2007		2'-2.5' BEB	639
AH-3A	X		5/14/2007		4'-4.5' BEB	2740
AH-3A	X		5/14/2007		6'-6.5' BEB	2000
AH-3A	X		5/14/2007		8'-8.5' BEB	1850
AH-3A	X		5/14/2007		10'-10.5' BEB	1190
T-1	X		6/6/2007		12.0' BEB	966
T-1	X		6/6/2007		14.0' BEB	226
T-1	X		6/6/2007		14.5' BEB	137

(-) Not Analyzed

(BEB) Below Excavation Bottom

APPENDIX A

Water Well Data
Average Depth to Groundwater (ft)
Pogo Producing Company - G.H. Mattix Transfer Line

22 South 36 East

6	5	4	3	2	1
195	212				137
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
				181	
				187	

22 South 37 East

6	5	85	4	3	2	1
7	8	9	90	10	11	12
18	17	16	15	14	13	
190	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

22 South 38

6	5
7	8
18	17
19	20
30	29
31	32

23 South 36 East

6	5	4	3	2	1
		160			
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
189					127

23 South 37 East

6	102	5	4	3	70	2	64	1
7	8	9	100	10	11	12		
18	17	16	115	15	14	13		
19	20	21	22	23	24			
30	29	28	27	26	25			
31	32	106	33	34	Site	35	36	
		97	87					

23 South 38

6	5
7	8
18	17
19	20
30	29
31	32

24 South 36 East

6	5	4	3	2	1
		165			
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		54			
		53			

24 South 37 East

6	5 111	4	3	2	1
7 119	8 90	9	10 120	11 64	12 18
18 124	17	16 67	15	14	13
19	20	21 69	22	23 94	24 100
30	29	28 70	27 41	26	25 89 90
31	32	33	34 55	35	36

24 South 38

6	5
7	8
18	17
19	20
56	
30 68	29
30	
31	32
97	

25 South 36 East

25 South 37 East

25 South 38

- 88 New Mexico State Engineers Well Reports
105 USGS Well Reports
90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
Geology and Groundwater Resources of Eddy County, NM (Report 3)
34 NMOCD - Groundwater Data

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 23S Range: 37E Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

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

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

iWATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 08/27/2007

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

News: [Available Now in NWISWeb](#)

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321617103102901

Minimum number of levels = 1

[Save file of selected sites to local disk for future upload](#)

USGS 321617103102901 23S.37E.28.133424

Available data for this site Ground-water: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'17", Longitude 103°10'29" NAD27

Land-surface elevation 3,315.40 feet above sea level NGVD29

The depth of the well is 150 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER
SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

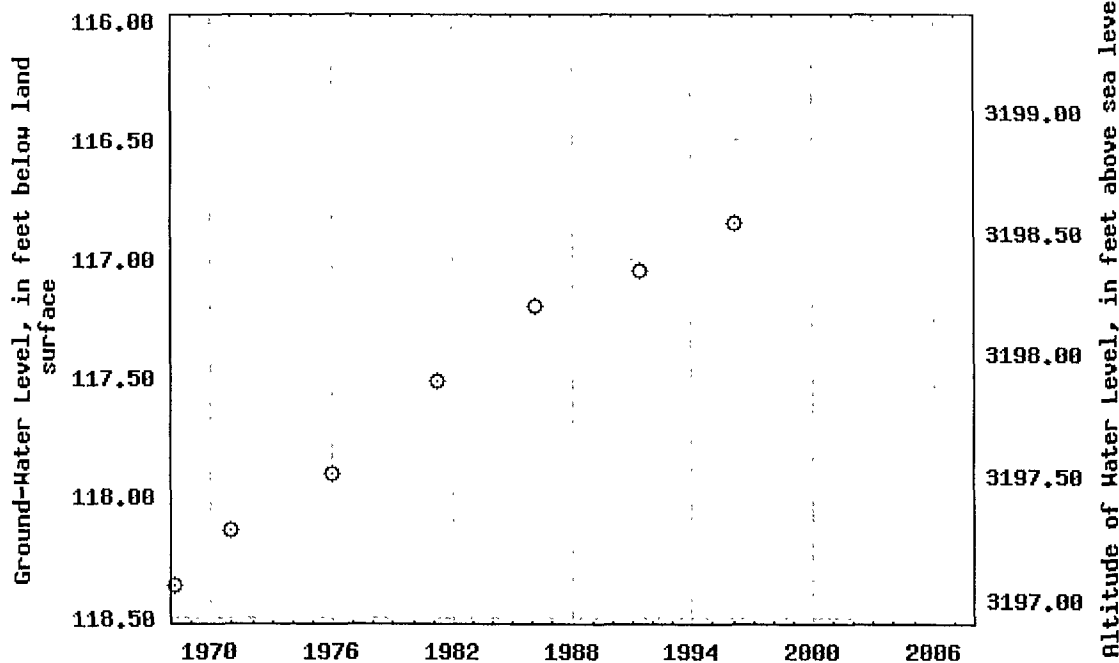
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 321617103102901 23S.37E.28.133424



---- Provisional Data Subject to Revision ----

Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

News: [Available Now in NWISWeb](#)

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321543103110802

Minimum number of levels = 1

[Save file of selected sites to local disk for future upload](#)

USGS 321543103110802 23S.37E.32.12240A

Available data for this site Ground-water: Field measurements

GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°15'43", Longitude 103°11'08" NAD27
Land-surface elevation 3,295.10 feet above sea level NGVD29
The depth of the well is 220 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER
SURFACE DEPOSITS (110AVMB) local aquifer.

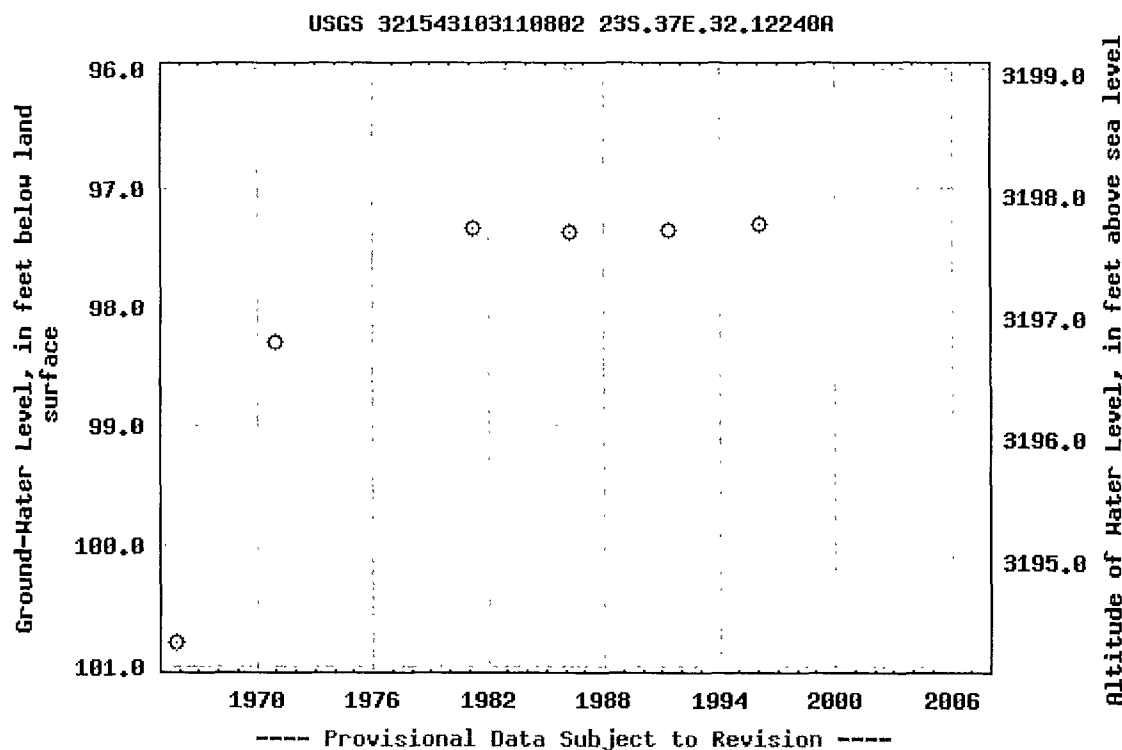
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321513103101501

Minimum number of levels = 1

[Save file of selected sites to local disk for future upload](#)

USGS 321513103101501 23S.37E.33.323241

Available data for this site Ground-water: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°15'13", Longitude 103°10'15" NAD27

Land-surface elevation 3,275.20 feet above sea level NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in the ALLUVIUM,BOLSON DEPOSITS AND OTHER
SURFACE DEPOSITS (110AVMB) local aquifer.

Output formats

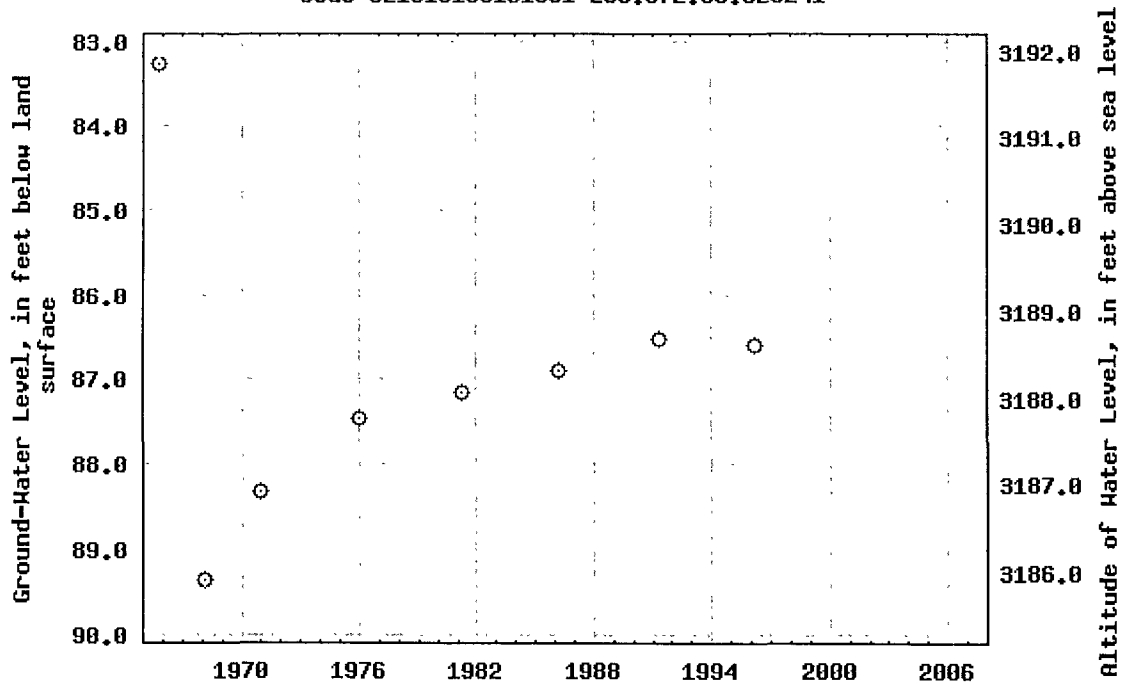
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 321513103101501 23S.37E.33.323241



---- Provisional Data Subject to Revision ----

Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

APPENDIX B

Summary Report

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

Report Date: April 23, 2007

Work Order: 7041714



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
121929	AH-1 (0-1.0')	soil	2007-04-13	00:00	2007-04-17
121930	AH-1 (1.0-1.5')	soil	2007-04-13	00:00	2007-04-17
121931	AH-1 (2.0-2.5')	soil	2007-04-13	00:00	2007-04-17
121932	AH-1 (4.0-4.5')	soil	2007-04-13	00:00	2007-04-17
121933	AH-1 (6.0-6.5')	soil	2007-04-13	00:00	2007-04-17
121934	AH-2 (0-1.0')	soil	2007-04-13	00:00	2007-04-17
121935	AH-2 (1.0-1.5')	soil	2007-04-13	00:00	2007-04-17
121936	AH-2 (2.0-2.5')	soil	2007-04-13	00:00	2007-04-17
121937	AH-2 (4.0-4.5')	soil	2007-04-13	00:00	2007-04-17
121938	AH-2 (6.0-6.5')	soil	2007-04-13	00:00	2007-04-17
121939	AH-3 (0-1.0')	soil	2007-04-13	00:00	2007-04-17
121940	AH-3 (1.0-1.5')	soil	2007-04-13	00:00	2007-04-17
121941	AH-3 (2.0-2.5')	soil	2007-04-13	00:00	2007-04-17
121942	AH-3 (4.0-4.5')	soil	2007-04-13	00:00	2007-04-17
121943	AH-3 (6.0-6.5')	soil	2007-04-13	00:00	2007-04-17

Sample - Field Code	TPH DRO	TPH GRO
	DRO (mg/Kg)	GRO (mg/Kg)
121929 - AH-1 (0-1.0')	<50.0	27.2
121934 - AH-2 (0-1.0')	232	14.9
121939 - AH-3 (0-1.0')	<50.0	10.5

Sample: 121929 - AH-1 (0-1.0')

Param	Flag	Result	Units	RL
Chloride		607	mg/Kg	1.00

Sample: 121930 - AH-1 (1.0-1.5')

Param	Flag	Result	Units	RL
Chloride		1160	mg/Kg	1.00

Sample: 121931 - AH-1 (2.0-2.5')

Param	Flag	Result	Units	RL
Chloride		1200	mg/Kg	1.00

Sample: 121932 - AH-1 (4.0-4.5')

Param	Flag	Result	Units	RL
Chloride		5250	mg/Kg	1.00

Sample: 121933 - AH-1 (6.0-6.5')

Param	Flag	Result	Units	RL
Chloride		2460	mg/Kg	1.00

Sample: 121934 - AH-2 (0-1.0')

Param	Flag	Result	Units	RL
Chloride		302	mg/Kg	1.00

Sample: 121935 - AH-2 (1.0-1.5')

Param	Flag	Result	Units	RL
Chloride		1140	mg/Kg	1.00

Sample: 121936 - AH-2 (2.0-2.5')

Param	Flag	Result	Units	RL
Chloride		1310	mg/Kg	1.00

Sample: 121937 - AH-2 (4.0-4.5')

Param	Flag	Result	Units	RL
Chloride		5180	mg/Kg	1.00

Sample: 121938 - AH-2 (6.0-6.5')

Param	Flag	Result	Units	RL
Chloride		4870	mg/Kg	1.00

Sample: 121939 - AH-3 (0-1.0')

continued ...

sample 121939 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		891	mg/Kg	1.00

Sample: 121940 - AH-3 (1.0-1.5')

Param	Flag	Result	Units	RL
Chloride		1020	mg/Kg	1.00

Sample: 121941 - AH-3 (2.0-2.5')

Param	Flag	Result	Units	RL
Chloride		1020	mg/Kg	1.00

Sample: 121942 - AH-3 (4.0-4.5')

Param	Flag	Result	Units	RL
Chloride		2370	mg/Kg	1.00

Sample: 121943 - AH-3 (6.0-6.5')

Param	Flag	Result	Units	RL
Chloride		4440	mg/Kg	1.00

Summary Report

Ray Taylor
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: April 25, 2007

Work Order: 7041714



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
121929	AH-1 (0-1.0')	soil	2007-04-13	00:00	2007-04-17
121934	AH-2 (0-1.0')	soil	2007-04-13	00:00	2007-04-17

Sample - Field Code	BTEX				MTBE
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)
121929 - AH-1 (0-1.0')	<0.0100	<0.0100	<0.0100	0.0310	<0.0100
121934 - AH-2 (0-1.0')	<0.0100	<0.0100	<0.0100	0.0478	<0.0100

Summary Report

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

Report Date: May 11, 2007

Work Order: 7050913



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123669	AH-1A (0-1.0) BEB	soil	2007-05-08	00:00	2007-05-09
123670	AH-1A (2.0-2.5) BEB	soil	2007-05-08	00:00	2007-05-09
123671	AH-1A (4.0-4.5) BEB	soil	2007-05-08	00:00	2007-05-09
123672	AH-1A (6.0-6.5) BEB	soil	2007-05-08	00:00	2007-05-09
123673	AH-1A (8.0-8.5) BEB	soil	2007-05-08	00:00	2007-05-09
123674	AH-1A (10.0-10.5) BEB	soil	2007-05-08	00:00	2007-05-09

Sample: 123669 - AH-1A (0-1.0) BEB

Param	Flag	Result	Units	RL
Chloride		17.5	mg/Kg	1.00

Sample: 123670 - AH-1A (2.0-2.5) BEB

Param	Flag	Result	Units	RL
Chloride		30.4	mg/Kg	1.00

Sample: 123671 - AH-1A (4.0-4.5) BEB

Param	Flag	Result	Units	RL
Chloride		1760	mg/Kg	1.00

Sample: 123672 - AH-1A (6.0-6.5) BEB

Param	Flag	Result	Units	RL
Chloride		2320	mg/Kg	1.00

Report Date: May 11, 2007
2986

Work Order: 7050913
POGO/G.H. Mattix Transfer Lineleak

Page Number: 2 of 2
Lea County, NM

Sample: 123673 - AH-1A (8.0-8.5) BEB

Param	Flag	Result	Units	RL
Chloride		1720	mg/Kg	1.00

Sample: 123674 - AH-1A (10.0-10.5) BEB

Param	Flag	Result	Units	RL
Chloride		313	mg/Kg	1.00

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
6015 Harris Parkway, Suite 110

Lubbock, Texas 79424
El Paso, Texas 79922
Midland, Texas 79703
Ft Worth, Texas 76132

800•378•1296
888•588•3443

806•794•1296
915•585•3443
432•689•6301
817•201•5260

FAX 806•794•1298
FAX 915•585•4944
FAX 432•689•6313

E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: May 11, 2007

Work Order: 7050913



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123669	AH-1A (0-1.0) BEB	soil	2007-05-08	00:00	2007-05-09
123670	AH-1A (2.0-2.5) BEB	soil	2007-05-08	00:00	2007-05-09
123671	AH-1A (4.0-4.5) BEB	soil	2007-05-08	00:00	2007-05-09
123672	AH-1A (6.0-6.5) BEB	soil	2007-05-08	00:00	2007-05-09
123673	AH-1A (8.0-8.5) BEB	soil	2007-05-08	00:00	2007-05-09
123674	AH-1A (10.0-10.5) BEB	soil	2007-05-08	00:00	2007-05-09

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project POGO/G.H. Mattix Transfer Lineleak were received by TraceAnalysis, Inc. on 2007-05-09 and assigned to work order 7050913. Samples for work order 7050913 were received intact at a temperature of 3 deg C.

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

Test	Method
Chloride (IC)	E 300.0

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7050913 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB) These quality control measures are performed with each preparation batch to ensure data integrity.

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

Analytical Report

Sample: 123669 - AH-1A (0-1.0) BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37121	Date Analyzed:	2007-05-10	Analyzed By:	AR
Prep Batch:	32195	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	B	17.5	mg/Kg	5	1.00

Sample: 123670 - AH-1A (2.0-2.5) BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37121	Date Analyzed:	2007-05-10	Analyzed By:	AR
Prep Batch:	32195	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		30.4	mg/Kg	5	1.00

Sample: 123671 - AH-1A (4.0-4.5) BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37121	Date Analyzed:	2007-05-10	Analyzed By:	AR
Prep Batch:	32195	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1760	mg/Kg	100	1.00

Sample: 123672 - AH-1A (6.0-6.5) BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37121	Date Analyzed:	2007-05-10	Analyzed By:	AR
Prep Batch:	32195	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2320	mg/Kg	100	1.00

Sample: 123673 - AH-1A (8.0-8.5) BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37121	Date Analyzed:	2007-05-10	Analyzed By:	AR
Prep Batch:	32195	Sample Preparation:		Prepared By:	AR

Report Date: May 11, 2007
2986

Work Order: 7050913
POGO/G.H. Mattix Transfer Lineleak

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Lea County, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1720	mg/Kg	100	1.00

Sample: 123674 - AH-1A (10.0-10.5) BEB

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 37121 Date Analyzed: 2007-05-10 Analyzed By: AR
Prep Batch: 32195 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		313	mg/Kg	50	1.00

Matrix Blank (1) QC Batch: 37121

QC Batch: 37121 Date Analyzed: 2007-05-10 Analyzed By: AR
Prep Batch: 32195 QC Preparation: 2007-05-09 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.16	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 37121 Date Analyzed: 2007-05-10 Analyzed By: AR
Prep Batch: 32195 QC Preparation: 2007-05-09 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	14.9	mg/Kg	1	12.5	2.1652	102	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	14.9	mg/Kg	1	12.5	2.1652	102	90 - 110	0	

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

Matrix Spike (MS-1) Spiked Sample: 123673

QC Batch: 37121 Date Analyzed: 2007-05-10 Analyzed By: AR
Prep Batch: 32195 QC Preparation: 2007-05-09 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	910	mg/Kg	50	625	312.766	96	90 - 110

Report Date: May 11, 2007
2986

Work Order: 7050913
POGO/G.H. Mattix Transfer Lineleak

Page Number: 5 of 5
Lea County, NM

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	939	mg/Kg	50	625	312.766	100	90 - 110	3	

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

Standard (ICV-1)

QC Batch: 37121

Date Analyzed: 2007-05-10

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.4	99	90 - 110	2007-05-10

Standard (CCV-1)

QC Batch: 37121

Date Analyzed: 2007-05-10

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.3	98	90 - 110	2007-05-10

Analysis Request and Chain of Custody Record										PAGE: / OF: /	
HIGHLANDER ENVIRONMENTAL CORP.										ANALYSIS REQUEST (Circle or Specify Method No.)	
1910 N. Big Spring St. Midland, Texas 79705											
(432) 682-4559										Fax (432) 682-3946	
CLIENT NAME: Pogo					SITE MANAGER: Ike Tavaraz						
PROJECT NO.: 2986			PROJECT NAME: Pogo / G.H. Mattix Transfer Line Leak								
LAB I.D. NUMBER			DATE			TIME			PRESERVATIVE METHOD		
MATRIX			COMP.			GRAB			NUMBER OF CONTAINERS		
SAMPLE IDENTIFICATION									FILTERED (Y/N)		
									HCL		
									HNOS		
									ICE		
									NONE		
123669			5/02/07						BTX 8020/802		
670									MTBE 8020/802		
671									TPH 418.1		
672									8015 MOD. TX1005		
673									PAH 8270		
674									RCRA Metals Ag As Ba Cd Cr Pb Hg Se		
									TCLP Metals Ag As Ba Cd Cr Pb Hg Se		
									TCLP Volatiles		
									TCLP Semi Volatiles		
									BCI		
									GC/MS Vol. B240/B260/B294		
									GC/MS Semi Vol. B270/B25		
									PCB's 8080/808		
									Pest. 808/808		
									BOD, TSS, pH, TDS, Chloride		
									Gamma Spec.		
									Alpha Beta (Air)		
									PLM (Asbestos)		
RELINQUISHED BY: (Signature) [Signature] Date: 5/9/07 Time: 11:05										RECEIVED BY: (Signature) [Signature] Date: Time:	
RELINQUISHED BY: (Signature) [Signature] Date: Time:										RECEIVED BY: (Signature) [Signature] Date: Time:	
RELINQUISHED BY: (Signature) [Signature] Date: Time:										RECEIVED BY: (Signature) [Signature] Date: Time:	
RECEIVING LABORATORY: Trace ADDRESS: Midland STATE: Texas ZIP: PHONE: DATE: 5-9-07 TIME: 11:05										HIGHLANDER CONTACT PERSON: Ike Tavaraz	
SAMPLE CONDITION WHEN RECEIVED: 3°C intact/air										REMARKS: 3°C intact/air	
MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other										RUSH Charges Authorized: Yes No	

Summary Report

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

Report Date: May 7, 2007

Work Order: 7050313



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123280	AH-2A (0-1.0') BEB	soil	2007-05-02	00:00	2007-05-03
123281	AH-2A (2.0-2.5') BEB	soil	2007-05-02	00:00	2007-05-03
123282	AH-2A (4.0-4.5') BEB	soil	2007-05-02	00:00	2007-05-03
123283	AH-2A (6.0-6.5') BEB	soil	2007-05-02	00:00	2007-05-03
123284	AH-2A (8.0-8.5') BEB	soil	2007-05-02	00:00	2007-05-03
123285	AH-2A (10.0-10.5') BEB	soil	2007-05-02	00:00	2007-05-03

Sample: 123280 - AH-2A (0-1.0') BEB

Param	Flag	Result	Units	RL
Chloride		714	mg/Kg	1.00

Sample: 123281 - AH-2A (2.0-2.5') BEB

Param	Flag	Result	Units	RL
Chloride		2260	mg/Kg	1.00

Sample: 123282 - AH-2A (4.0-4.5') BEB

Param	Flag	Result	Units	RL
Chloride		584	mg/Kg	1.00

Sample: 123283 - AH-2A (6.0-6.5') BEB

Param	Flag	Result	Units	RL
Chloride		1130	mg/Kg	1.00

Report Date: May 7, 2007
2986

Work Order: 7050313
POGO/G.H. Mattix Transfer Lineleak

Page Number: 2 of 2
Lea County, NM

Sample: 123284 - AH-2A (8.0-8.5') BEB

Param	Flag	Result	Units	RL
Chloride		725	mg/Kg	1.00

Sample: 123285 - AH-2A (10.0-10.5') BEB

Param	Flag	Result	Units	RL
Chloride		282	mg/Kg	1.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79927 888•588•3443 915•585•3143 FAX 915•585•4944
5002 Mastin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: May 7, 2007

Work Order: 7050313



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123280	AH-2A (0-1.0') BEB	soil	2007-05-02	00:00	2007-05-03
123281	AH-2A (2.0-2.5') BEB	soil	2007-05-02	00:00	2007-05-03
123282	AH-2A (4.0-4.5') BEB	soil	2007-05-02	00:00	2007-05-03
123283	AH-2A (6.0-6.5') BEB	soil	2007-05-02	00:00	2007-05-03
123284	AH-2A (8.0-8.5') BEB	soil	2007-05-02	00:00	2007-05-03
123285	AH-2A (10.0-10.5') BEB	soil	2007-05-02	00:00	2007-05-03

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 123280 - AH-2A (0-1.0') BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	36960	Date Analyzed:	2007-05-03	Analyzed By:	AR
Prep Batch:	32064	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		714	mg/Kg	50	1.00

Sample: 123281 - AH-2A (2.0-2.5') BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	36960	Date Analyzed:	2007-05-03	Analyzed By:	AR
Prep Batch:	32064	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2260	mg/Kg	100	1.00

Sample: 123282 - AH-2A (4.0-4.5') BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	36960	Date Analyzed:	2007-05-03	Analyzed By:	AR
Prep Batch:	32064	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		584	mg/Kg	10	1.00

Sample: 123283 - AH-2A (6.0-6.5') BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	36960	Date Analyzed:	2007-05-03	Analyzed By:	AR
Prep Batch:	32064	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1130	mg/Kg	50	1.00

Sample: 123284 - AH-2A (8.0-8.5') BEB

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	36980	Date Analyzed:	2007-05-04	Analyzed By:	AR
Prep Batch:	32081	Sample Preparation:		Prepared By:	AR

Report Date: May 7, 2007
2986

Work Order: 7050313
POGO/G.H. Mattix Transfer Lineleak

Page Number: 3 of 5
Lea County, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		725	mg/Kg	50	1.00

Sample: 123285 - AH-2A (10.0-10.5') BEB

Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 36980 Date Analyzed: 2007-05-04 Analyzed By: AR
Prep Batch: 32081 Sample Preparation: Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		282	mg/Kg	10	1.00

Matrix Blank (1) QC Batch: 36960

QC Batch: 36960 Date Analyzed: 2007-05-03 Analyzed By: AR
Prep Batch: 32064 QC Preparation: 2007-05-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.27	mg/Kg	1

Matrix Blank (1) QC Batch: 36980

QC Batch: 36980 Date Analyzed: 2007-05-04 Analyzed By: AR
Prep Batch: 32081 QC Preparation: 2007-05-04 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		3.18	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 36960 Date Analyzed: 2007-05-03 Analyzed By: AR
Prep Batch: 32064 QC Preparation: 2007-05-03 Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	15.0	mg/Kg	1	12.5	2.1955	102	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	14.9	mg/Kg	1	12.5	2.1955	102	90 - 110	1	

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

Laboratory Control Spike (LCS-1)

QC Batch: 36980
Prep Batch: 32081

Date Analyzed: 2007-05-04
QC Preparation: 2007-05-04

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	14.9	mg/Kg	1	12.5	2.0971	102	90 - 110

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	14.9	mg/Kg	1	12.5	2.0971	102	90 - 110	0	

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

Matrix Spike (MS-1) Spiked Sample: 123281

QC Batch: 36960
Prep Batch: 32064

Date Analyzed: 2007-05-03
QC Preparation: 2007-05-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	3490	mg/Kg	100	1250	2259.43	98	90 - 110

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	3540	mg/Kg	100	1250	2259.43	102	90 - 110	1	

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

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 36980
Prep Batch: 32081

Date Analyzed: 2007-05-04
QC Preparation: 2007-05-04

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 3800	mg/Kg	100	1250	2428.91	110	90 - 110

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 3610	mg/Kg	100	1250	2428.91	94	90 - 110	5	

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

¹MS/MSD for sample 121915, not reported in this batch. •

²MS/MSD for sample 121915, not reported in this batch. •

Standard (ICV-1)

QC Batch: 36960

Date Analyzed: 2007-05-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.4	99	90 - 110	2007-05-03

Standard (CCV-1)

QC Batch: 36960

Date Analyzed: 2007-05-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.4	99	90 - 110	2007-05-03

Standard (ICV-1)

QC Batch: 36980

Date Analyzed: 2007-05-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.2	97	90 - 110	2007-05-04

Standard (CCV-1)

QC Batch: 36980

Date Analyzed: 2007-05-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.4	99	90 - 110	2007-05-04

7050313

<h1 style="margin:0;">Analysis Request and Chain of Custody Record</h1> <h2 style="margin:0;">HIGHLANDER ENVIRONMENTAL CORP.</h2> <p style="margin:0;">1910 N. Big Spring St. Midland, Texas 79705</p> <p style="margin:0;">(432) 682-4559 Fax (432) 682-3946</p>										PAGE: <u>1</u> OF: <u>1</u>																																																			
CLIENT NAME: <u>Pogo</u> SITE MANAGER: <u>Ike Tavaréz</u>										ANALYSIS REQUEST (Circle or Specify Method No.)																																																			
PROJECT NO.: <u>2986</u>					PROJECT NAME: <u>Pogo / G.H. Mattix Transfer Line leak</u> <u>Lea County, NM</u>					PRESERVATIVE METHOD																																																			
LAB I.D. NUMBER		DATE		TIME		MATRIX		COMP.		GRAB		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE		HTEX 8020/808		MTEE 8080/808		TPH 418.1		6015 MOD.		TX1005		PAH BE70		RCRA Metals Ag As Ba Cd Cr Pb Hg Se		TCLP Metals Ag As Ba Cd Cr Pb Hg Se		TCLP Volatiles		TCLP Semi Volatiles		RST		GC/MS Vol. 8240/8260/824		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)	
123280		5/2/07				S		X		AH-2A(0-1.0') BEB		1																																																	
81						S		X		AH-2A(2.0'-2.5') BEB		1																																																	
82						S		X		AH-2A(4.0'-4.5') BEB		1																																																	
83						S		X		AH-2A(6.0'-6.5') BEB		1																																																	
84						S		X		AH-2A(8.0'-8.5') BEB		1																																																	
85						S		X		AH-2A(10.0'-10.5') BEB		1																																																	
86																																																													
87																																																													
RELINQUISHED BY: (Signature) <u>Kell Harrison</u> Date: <u>5/03/07</u> Time: <u>11:03</u>										RECEIVED BY: (Signature) <u>ARONZ</u> Date: <u>5:30</u> Time: <u>11:03</u>										SAMPLED BY: (Print & Sign) <u>Kell Harrison / [Signature]</u> Date: <u>5/03/07</u> Time: <u> </u>																																									
RELINQUISHED BY: (Signature) Date: Time:										RECEIVED BY: (Signature) Date: Time:										SAMPLE SHIPPED BY: (Circle) <input type="checkbox"/> FEDEX <input type="checkbox"/> BUS <input type="checkbox"/> AIRBILL # _____ <input checked="" type="checkbox"/> HAND DELIVERED <input type="checkbox"/> UPS <input type="checkbox"/> OTHER: _____																																									
RELINQUISHED BY: (Signature) Date: Time:										RECEIVED BY: (Signature) Date: Time:										HIGHLANDER CONTACT PERSON: <u>Ike Tavaréz</u>																																									
RECEIVING LABORATORY: <u>Trace</u> ADDRESS: _____ CITY: <u>Midland</u> STATE: <u>Texas</u> ZIP: _____ CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____										RECEIVED BY: (Signature) DATE: _____ TIME: _____										Results by: _____ RUSH Charges Authorized: _____ Yes No																																									
SAMPLE CONDITION WHEN RECEIVED: <u>40</u>										MATRIX: <u>W-Water</u> <u>A-Air</u> <u>SD-Solid</u> <u>S-Soil</u> <u>SL-Sludge</u> <u>O-Other</u>										REMARKS: _____																																									

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

Summary Report

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

Report Date: May 23, 2007

Work Order: 7051625



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
124246	AH-3A 0'-1'	soil	2007-05-14	00:00	2007-05-16
124247	AH-3A 2'-2.5'	soil	2007-05-14	00:00	2007-05-16
124248	AH-3A 4'-4.5'	soil	2007-05-14	00:00	2007-05-16
124249	AH-3A 6'-6.5'	soil	2007-05-14	00:00	2007-05-16
124250	AH-3A 8'-8.5'	soil	2007-05-14	00:00	2007-05-16
124251	AH-3A 10'-10.5'	soil	2007-05-14	00:00	2007-05-16

Sample: 124246 - AH-3A 0'-1'

Param	Flag	Result	Units	RL
Chloride		10.8	mg/Kg	1.00

Sample: 124247 - AH-3A 2'-2.5'

Param	Flag	Result	Units	RL
Chloride		639	mg/Kg	1.00

Sample: 124248 - AH-3A 4'-4.5'

Param	Flag	Result	Units	RL
Chloride		2740	mg/Kg	1.00

Sample: 124249 - AH-3A 6'-6.5'

Param	Flag	Result	Units	RL
Chloride		2000	mg/Kg	1.00

Report Date: May 23, 2007
2986

Work Order: 7051625
POGO/G.H. Mattix Transfer Lineleak

Page Number: 2 of 2
Lea County, NM

Sample: 124250 - AH-3A 8'-8.5'

Param	Flag	Result	Units	RL
Chloride		1850	mg/Kg	1.00

Sample: 124251 - AH-3A 10'-10.5'

Param	Flag	Result	Units	RL
Chloride		1190	mg/Kg	1.00



6701 Aberdeen Avenue Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•595•4944
5002 Basin Street Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway Suite 110 Ft Worth, Texas 76132 817•201•5260
E Mail: labs@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: May 23, 2007

Work Order: 7051625



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
124246	AH-3A 0'-1'	soil	2007-05-14	00:00	2007-05-16
124247	AH-3A 2'-2.5'	soil	2007-05-14	00:00	2007-05-16
124248	AH-3A 4'-4.5'	soil	2007-05-14	00:00	2007-05-16
124249	AH-3A 6'-6.5'	soil	2007-05-14	00:00	2007-05-16
124250	AH-3A 8'-8.5'	soil	2007-05-14	00:00	2007-05-16
124251	AH-3A 10'-10.5'	soil	2007-05-14	00:00	2007-05-16

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 124246 - AH-3A 0-1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37432	Date Analyzed:	2007-05-23	Analyzed By:	ER
Prep Batch:	32458	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		10.8	mg/Kg	5	1.00

Sample: 124247 - AH-3A 2'-2.5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37429	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32456	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		639	mg/Kg	50	1.00

Sample: 124248 - AH-3A 4'-4.5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37429	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32456	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		2740	mg/Kg	500	1.00

Sample: 124249 - AH-3A 6'-6.5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37429	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32456	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		2000	mg/Kg	100	1.00

Sample: 124250 - AH-3A 8'-8.5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37429	Date Analyzed:	2007-05-22	Analyzed By:	ER
Prep Batch:	32456	Sample Preparation:	2007-05-22	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1850	mg/Kg	100	1.00

Sample: 124251 - AH-3A 10'-10.5'

Analysis: Chloride (IC)	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 37429	Date Analyzed: 2007-05-22	Analyzed By: ER
Prep Batch: 32456	Sample Preparation: 2007-05-22	Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1190	mg/Kg	100	1.00

Method Blank (1) QC Batch: 37429

QC Batch: 37429	Date Analyzed: 2007-05-22	Analyzed By: ER
Prep Batch: 32456	QC Preparation: 2007-05-22	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 37432

QC Batch: 37432	Date Analyzed: 2007-05-23	Analyzed By: ER
Prep Batch: 32458	QC Preparation: 2007-05-22	Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 37429	Date Analyzed: 2007-05-22	Analyzed By: ER
Prep Batch: 32456	QC Preparation: 2007-05-22	Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.2	mg/Kg	1	12.5	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.9	mg/Kg	1	12.5	<0.140	103	90 - 110	6	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 37432
Prep Batch: 32458

Date Analyzed: 2007-05-23
QC Preparation: 2007-05-22

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.3	mg/Kg	1	12.5	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.0	mg/Kg	1	12.5	<0.140	96	90 - 110	2	20

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

Matrix Spike (MS-1) Spiked Sample: 124255

QC Batch: 37429
Prep Batch: 32456

Date Analyzed: 2007-05-22
QC Preparation: 2007-05-22

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 388	mg/Kg	5	62.5	169.283	350	75.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 275	mg/Kg	5	62.5	169.283	169	75.6 - 117	34	20

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

Matrix Spike (MS-1) Spiked Sample: 124333

QC Batch: 37432
Prep Batch: 32458

Date Analyzed: 2007-05-23
QC Preparation: 2007-05-22

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	³ 549	mg/Kg	50	625	224.831	52	75.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	⁴ 540	mg/Kg	50	625	224.831	50	75.6 - 117	2	20

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

¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Standard (ICV-1)

QC Batch: 37429

Date Analyzed: 2007-05-22

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.8	94	90 - 110	2007-05-22

Standard (CCV-1)

QC Batch: 37429

Date Analyzed: 2007-05-22

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.9	95	90 - 110	2007-05-22

Standard (ICV-1)

QC Batch: 37432

Date Analyzed: 2007-05-23

Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.8	94	90 - 110	2007-05-23

Standard (CCV-1)

QC Batch: 37432

Date Analyzed: 2007-05-23

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.8	94	90 - 110	2007-05-23

work order: 7051825

PAGE: / OF: /

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Pogo				SITE MANAGER: Ike Tavaréz				PRESERVATIVE METHOD																							
PROJECT NO.: 2986				PROJECT NAME: G.H. Mattix Transfer Line				NUMBER OF CONTAINERS																							
				Lea Co. NM				FILTERED (Y/N)																							
				SAMPLE IDENTIFICATION																											
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB			HCL	HNO3	ICE	NONE	BTX 8020/808	MTBE 8020/808	TPH 418.1	8015 MOD.	TX1005	PCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	FCI	GC/MS Vol. 8240/8260/824	GC/MS Semi Vol. 8270/825	PCB's 8080/808	Pest. 808/608	BOD, TSS, pH, TDS, <u>Chloride</u>	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)		
124246	5-14-07		S	X		AH-3A	0-1'			X																X					
124247	}		S	X		AH-3A	2'-2.5'			X															X						
248			S	X		AH-3A	4'-4.5'			X															X						
249			S	X		AH-3A	6'-6.5'			X															X						
250			S	X		AH-3A	8'-8.5'			X															X						
251			S	X		AH-3A	10'-10.5'			X															X						
RELINQUISHED BY: (Signature)			Date: 05-16-07		RECEIVED BY: (Signature)			Date: _____		SAMPLED BY: (Print & Sign)			Date: 5-14-07																		
RELINQUISHED BY: (Signature)			Time: 8:30		RECEIVED BY: (Signature)			Time: _____		SAMPLED BY: (Print & Sign)			Time: _____																		
RELINQUISHED BY: (Signature)			Date: _____		RECEIVED BY: (Signature)			Date: _____		SAMPLE SHIPPED BY: (Circle)			FEDEX			BUS			AIRBILL # _____												
RELINQUISHED BY: (Signature)			Time: _____		RECEIVED BY: (Signature)			Time: _____		SAMPLE SHIPPED BY: (Circle)			HAND DELIVERED			UPS			OTHER: _____												
RECEIVING LABORATORY: TRACE			DATE: 5-16-07		RECEIVED BY: (Signature)			DATE: 5-16-07		HIGHLANDER CONTACT PERSON:			Ike Tavaréz			Results by:															
ADDRESS: _____			STATE: _____		CITY: _____			ZIP: _____		REMARKS: all tests - Asbestos Lubbock			RUSH Charges			Authorized:															
CONTACT: _____			PHONE: _____		DATE: 5-16-07			TIME: 8:30		Ike Tavaréz			Yes			No															
SAMPLE CONDITION WHEN RECEIVED:			MATRIX:		F-Water		A-Air		SD-Solid		REMARKS:			all tests - Asbestos Lubbock																	
4'c intact			S-Soil		SL-Sludge		O-Other																								

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.

Report Date: June 12, 2007
2986

Work Order: 7060723
POGO/G.H. Mattix Transfer Lineleak

Page Number: 1 of 1
Lea County, NM

Summary Report

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

Report Date: June 12, 2007

Work Order: 7060723



Project Location: Lea County, NM
Project Name: POGO/G.H. Mattix Transfer Lineleak
Project Number: 2986

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126734	T-1 12.0'	soil	2007-06-06	00:00	2007-06-07
126735	T-1 14.0'	soil	2007-06-06	00:00	2007-06-07
126736	T-1 14.5'	soil	2007-06-06	00:00	2007-06-07

Sample: 126734 - T-1 12.0'

Param	Flag	Result	Units	RL
Chloride		966	mg/Kg	2.00

Sample: 126735 - T-1 14.0'

Param	Flag	Result	Units	RL
Chloride		226	mg/Kg	2.00

Sample: 126736 - T-1 14.5'

Param	Flag	Result	Units	RL
Chloride		137	mg/Kg	2.00

APPENDIX C

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505Form C-141
Revised October 10, 2003Submit 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	<i>Latigo Petroleum, Inc</i>	Contact	<i>PATRICK ELLIS</i>
Address	<i>P.O. Box 10340 Midland, Texas 79702</i>	Telephone No.	<i>432 685-8148</i>
Facility Name	<i>EVA E Blinberry Federal #1</i>	Facility Type	<i>Well - injection transfer line</i>

Surface Owner	Mineral Owner	Lease No.	<i>NMLE-064-118</i>
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LOCATION OF RELEASE *30 02S 109 36 0000*

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>E</i>	<i>34</i>	<i>23S</i>	<i>37E</i>	<i>1980</i>	<i>FSL</i>	<i>660</i>	<i>FEL</i>	<i>Lea</i>

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	<i>Produced Water</i>	Volume of Release	<i>150 BBLs</i>	Volume Recovered	<i>135 BBLs</i>
Source of Release	<i>TRANSFER LINE</i>	Date and Hour of Occurrence	<i>4-8-07 Left voice message with OCD + BLM.</i>		
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>4-8-07 Left voice message with OCD + BLM.</i>			
By Whom?	<i>FRANK UNDERWOOD</i>	Date and Hour	<i>7:00 PM 4-8-07</i>		
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.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Produced water transfer line was ruptured when plugging unit ran over line. Transfer line originated from G.H. MATTIX injection station.

Describe Area Affected and Cleanup Action Taken.*

All free fluid was picked up. Highlander Environmental was contacted to evaluate spill area. Will send remediation plans for approval after evaluations.

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

OIL CONSERVATION DIVISION

Signature: *Patrick L. Ellis*Printed Name: *PATRICK L. ELLIS*Title: *EHS Supervisor*E-mail Address: *ellis@pogoproducing.com*Date: *4-26-07*Phone: *(432) 685-8148*Approved by District Supervisor: *[Signature]*Approval Date: *6-27-07*Expiration Date: *8-27-07*

Conditions of Approval:

Attached ☐

FINAL DUE BY

* Attach Additional Sheets If Necessary

RP#1443

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

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

Release Notification and Corrective Action

(AMENDED)

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Pogo Producing Company	Contact: Pat Ellis
Address: P.O. Box 10340 Midland, Texas 79702-7340	Telephone No. (432) 685-8100
Facility Name: State G.H. Mattix Transfer Line	Facility Type: Transfer Line
Surface Owner	Mineral Owner
Lease No. NMLC064118	

LOCATION OF RELEASE

Unit Letter E	Section 34	Township 23S	Range 37E	Feet from the 1980'	North/South Line FSL	Feet from the 660'	East/West Line PEL	County Lea
------------------	---------------	-----------------	--------------	------------------------	-------------------------	-----------------------	-----------------------	---------------

Latitude 32° 15.522' Longitude 103° 08.656'

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 150BW	Volume Recovered 135 BW
Source of Release Transfer Line	Date and Hour of Occurrence 04/08/07	Date and Hour of Discovery 04/08/07
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Left Voice Message	
By Whom? Frank Underwood	Date and Hour 04/08/07 7:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Produced water transfer line was ruptured when plugging unit ran over line. Transfer line originated from G.H. Mattix Injection Station.		
Describe Area Affected and Cleanup Action Taken.* All free oil was picked up. Highlander Environmental was contacted to evaluate spill. Samples were collected and spill was excavated to 4.5' below ground surface. Additional delineation samples taken. Soil hauled to Sundance in Eunice for disposal.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <u>Don A. Riggs</u>	OIL CONSERVATION DIVISION	
Printed Name: Don Riggs	Approved by District Supervisor:	
Title: Environmental Health and Safety Manager	Approval Date:	Expiration Date:
E-mail Address: riggsd@pogoproducing.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/14/07 Phone: (713) 297-5045		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised June 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Pogo Producing Company	Contact: Pat Ellis
Address: P.O. Box 10340 Midland, Texas 79702-7340	Telephone No. (432) 685-8100
Facility Name: State G.H. Mattix Transfer Line	Facility Type: Transfer Line
Surface Owner: <u>(2) EVA E. OLIVERIA FEO #1</u>	Lease No. NMLC064118

LOCATION OF RELEASE

Unit Letter E	Section 34	Township 23S	Range 37E	Feet from the 1980'	North/South Line FSL	Feet from the 660'	East/West Line FEL	County Lea
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Latitude 32° 15.522' Longitude 103° 08.656'

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 150BW	Volume Recovered 135 BW
Source of Release Transfer Line	Date and Hour of Occurrence 04/08/07	Date and Hour of Discovery 04/08/07
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Left Voice Message	
By Whom? Frank Underwood	Date and Hour 04/08/07 7:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Produced water transfer line was ruptured when plugging unit ran over line. Transfer line originated from G.H. Mattix Injection Station.		
Describe Area Affected and Cleanup Action Taken.* All free oil was picked up. Highlander Environmental was contacted to evaluate spill. Samples were collected and spill was excavated to 4.5' below ground surface. Additional delineation samples taken. Soil hauled to Sundance in Eunice for disposal		
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Signature: <u>Don A. Riggs</u>	OIL CONSERVATION DIVISION <u>Johnson</u>	
Printed Name: Don Riggs	Approved by District Supervisor ENVIRONMENTAL ENGINEER	
Title: Environmental Health and Safety Manager	Approval Date: <u>11.9.07</u>	Expiration Date: _____
E-mail Address: <u>riggsd@pogoproducing.com</u>	Conditions of Approval:	
Date: <u>9/14/07</u> Phone: <u>(713) 297-5045</u>	Attached <input type="checkbox"/> <u>RP # 1443</u>	

* Attach Additional Sheets If Necessary