

SITE INFORMATION

Type of Report: Closure Report

General Site Information:

Site:	Farnsworth Federal B #5 and Farnsworth Federal B Tank Battery
Company:	Southwest Royalties, Inc.
Well Location:	Section 7, T26S, R37E, Unit Letter L API # 30 025 11961
Tank Battery Location:	Section 7, T26S, R37E, Unit Letter L
Lease Number:	LC 030180B
County:	Lea
Spill Area GPS:	32.05586, 103.20828
Surface Owner:	El Paso
Mineral Owner:	-
Directions:	At Jal, New Mexico, intersection of 3 Rd. Street and Hwy. 128, go 6.1 miles (south) on 3rd. Street, Turn left (east) into lease road and go 1.5 miles to Y, at Y turn left (south) and go 1.4 miles to tank battery on right side or 1.6 miles to well #5 on left side

Release Data:

Date Released:	8/23/2006
Type Release:	oil
Source of Contamination:	well blowout at well #5 and tank battery tank overflowed
Fluid Released:	unknown
Fluids Recovered:	125 barrels (well) and 145 barrels (tank battery)

Official Communication:

Name:	Dawn M. Howard	Ike Tavarez
Company:	Southwest Royalties, Inc.	Highlander Environmental Corp.
Address:	6 Desta Dr., St 2100	1910 N. Big Spring
P.O. Box		
City:	Midland Texas, 79705	Midland, Texas
Phone number:	(432) 688-3267	(432) 682- 4559
Fax:	(432) 688-3250	(432) 682- 3946
Email:	dhoward@claytonwilliams.com	itavarez@hec-enviro.com

Ranking Criteria:

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	Greater 100'
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	None
Surface Body of Water:		
	Ranking Score	Site Data
<200 ft.	20	None
200 ft - 1,000 ft.	10	None
>1,000 ft.	0	None
Total Ranking Score:		0

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

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FEB 11 2008

HOBBS OCD



Highlander Environmental Corp.

Midland, Texas

December 31, 2007

RECEIVED

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HOBBS OCD

LRP # 1007

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

RE: Closure Report for the Spill at the Southwest Royalties, Inc., Farnsworth Federal B #5 Well and Tank Battery, Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico.

Dear Mr. Johnson:

Highlander Environmental Corp. (Highlander) was contacted by Southwest Royalties, Inc. (Southwest) to assess and to remediate the soil impact from a well blow out that occurred at the Farnsworth Federal B #5 Well and the Farnsworth Federal Tank Battery, located in Unit Letter L, Section 7, Township 26 South, Range 37 East, Lea County, New Mexico. The well site coordinates are N 32.05586°, W 103.20828°. The State of New Mexico C-141 (Initial and Final) are included in Appendix C. The well and the tank battery location are shown on Figure 1.

Background

On August 23, 2006, the well apparently pressured up and the fluids flowed up the backside of the well. A gas pocket or air bubbles may have caused the connection to blow off the wellhead. At the time of the release, the oil tanks at the tank battery were full and the tanks overflowed. The volume released at the well and the tank battery was unknown. An estimated 125 barrels of oil was recovered at the well and 145 barrels at the tank battery.

The release at the well impacted an area estimated at 2 to 4 acres with the majority of the impact being overspray. At the tank battery, oil was observed on the pad, drive area and out into the pasture. The impacted areas are further discussed in the Assessment and Sample Results Section of the report. The spill locations are shown on Figures 2 and 3.

Groundwater and Regulatory

The spill areas are located in Section 7, Township 26 South, Range 37 East. The USGS data base reported a depth to water at 196' in Section 7, Township 26 South, Range 37 East. The State of New Mexico Well Reports did not show any water wells in Section 7. However, there were water wells shown in Sections 29 and 35, Township 25 South, Range 37 East with average groundwater depths of approximately 219' to 185' below surface. In addition, published data, from the Geology and Groundwater Conditions in Southern New Mexico, shows wells in Section 2, 12 and 14, Township 26 South, Range 37 East with reported depths of 103', 102' and 100', respectively. The State of New Mexico Well Reports, USGS report and published reports are included in Appendix A.

A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH is 5,000 mg/kg.

Previous Assessment and Sample Results

Well #5

On August 24 2006, Highlander personnel inspected and sampled the spill areas. At Well #5, the majority of the surface staining was due to overspray northeast of the well. The impacted area where fluids accumulated north of the well measured approximately 85' x 180'. The impacted areas are shown on Figure 2. A total of four (4) auger holes were installed in this area to assess the impacted soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 1.

On August 25, 2006, Highlander personnel applied a Micro-Blaze product to the overspray area. The treatment was applied to the vegetation to wash oil residue from the foliage. This area will be inspected for further applications and growth of the vegetation.

Referring to Table 1, the hydrocarbon impact to the soils appears to be shallow. AH-2, AH-3 and AH-4 exceeded the TPH RRAL of 5,000 mg/kg at 0-1', however, the deeper samples at 1-1.5' were all below the RRAL. The BTEX concentrations did not exceed the RRAL. Chloride concentrations were elevated in the shallow soil samples at 0-1' ranging from 1,480 mg/kg to 8,510 mg/kg. The area of AH-3 did show a deeper



impact to a depth of 2.0' below surface, with a chloride concentration decreasing from 12,100 mg/kg at 1.0' below surface to <5.0 mg/kg at 3.0' below surface.

Tank Battery

On August 25, 2006, Highlander personnel inspected and sampled the spill areas. The area north of the tanks did show oil staining where the tanks overflowed. The impacted area inside the facility fence line measured approximately 45' x 90'. The impacted area in the drive area measured approximately 20' x 150' and the area off the facility pad measured approximately 20' x 60'. The impacted areas are shown on Figure 3. A total of five (5) auger holes were installed in the impacted area to assess the soils. Soil samples were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO and chloride by EPA method 300.0. Selected samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA method 8021B. The sample results are presented in Table 2.

Referring to Table 2, AH-1, AH-3 and AH-4 exceeded the TPH RRAL at 0-1'. The TPH exceeded the RRAL to approximately 3.0' in the area of AH-2. BTEX concentrations did not exceed the RRAL. The chloride detected in the auger holes did not show a significant impact to the Site. The chlorides in the shallow soils 0-1' ranged from 369 mg/kg to 523 mg/kg. The deeper samples showed a declining chloride with depth, with the exception of AH-3 where the chloride concentration remained the consistent approximately 500 mg/kg.

Remedial Work Performed

A work plan was submitted to the NMOCD dated October 11, 2006. The work plan was implemented as follows.

Well #5

The hydrocarbon impact at the Site was limited to the shallow soils at 0-1' below surface. Chloride concentrations were elevated to depths ranging from 1'-3' below surface. The surface owner, El Paso Natural Gas did not want the area excavated. To properly remediate the impacted area, the soils with levels exceeding the RRAL for TPH and elevated chloride were periodically tilled to a depth of 3.0' to blend the soil to reduce concentrations. The areas, designated #1 (AH-2), #2 (AH-3) and #3 (AH-4) were also periodically sampled to evaluate the tilling. The overspray areas were monitored to evaluate the Micro Blaze treatments. As shown on Table 3, the TPH concentrations eventually remediated to below the RRAL, and chloride concentrations were reduced significantly.

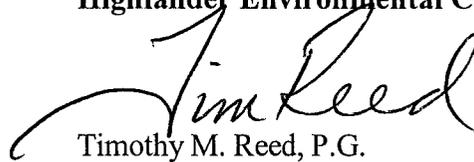
Tank Battery

The hydrocarbon impact in the area was limited to 1'-3' below surface. Based on the results, the chloride concentrations do not appear to an environmental concern. The areas exceeding the TPH RRAL at 1-3' were excavated and worked below the RRAL. Confirmation samples were collected from the excavation and the remediated soils (stockpile) for evaluation. The results are summarized in Table 4. Based upon the results, all but one of the stockpiles was placed back into the excavation. The remaining stockpile #2 was hauled to Sundance Services for disposal.



Based upon the results of the remediation and sampling performed at this facility, Southwest Royalties requests closure of this site. If you require any additional information or have any questions or comments, please call.

Highlander Environmental Corp.

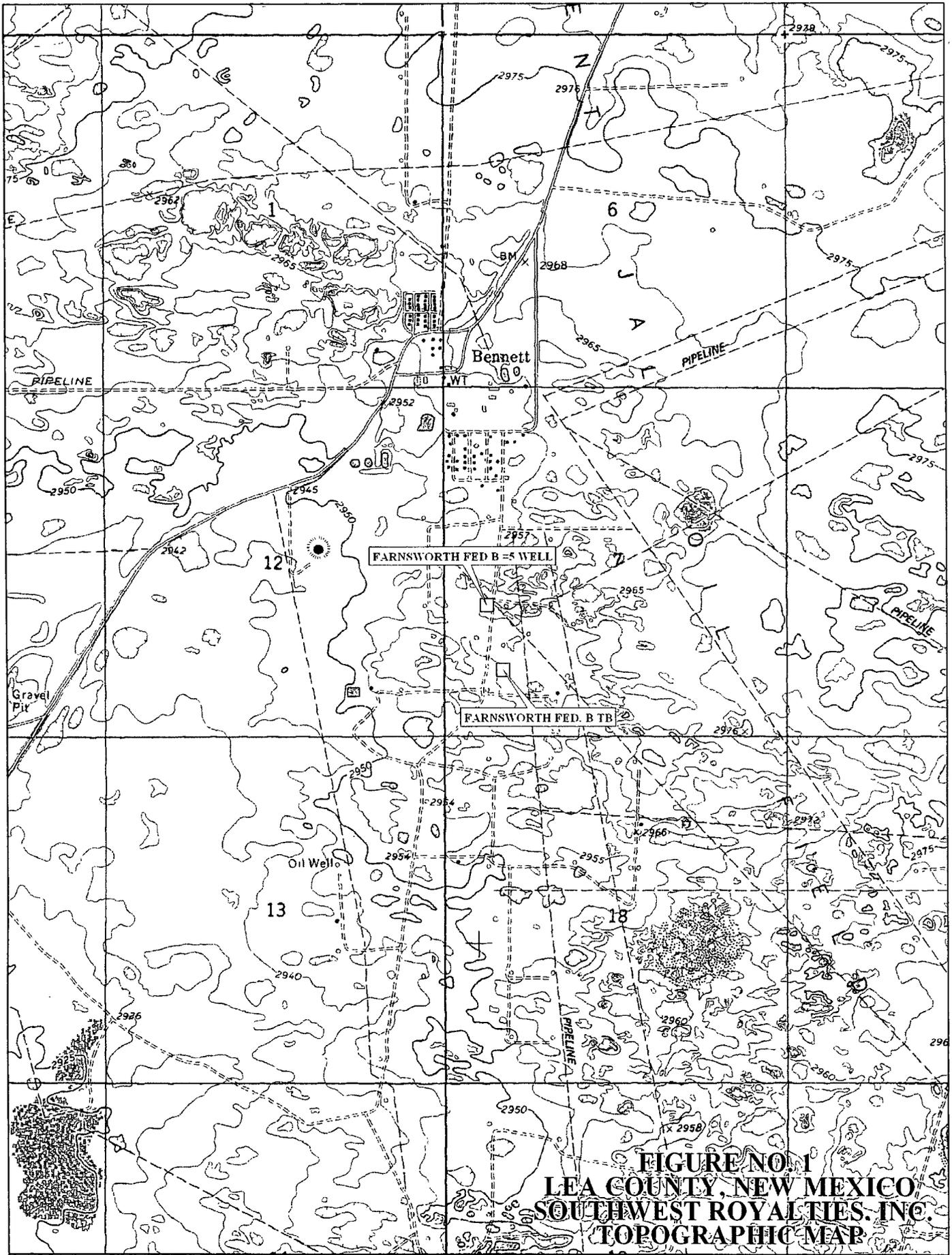


Timothy M. Reed, P.G.
Vice President

cc: Matt Swierc - SWR



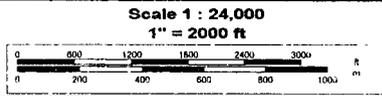
FIGURES

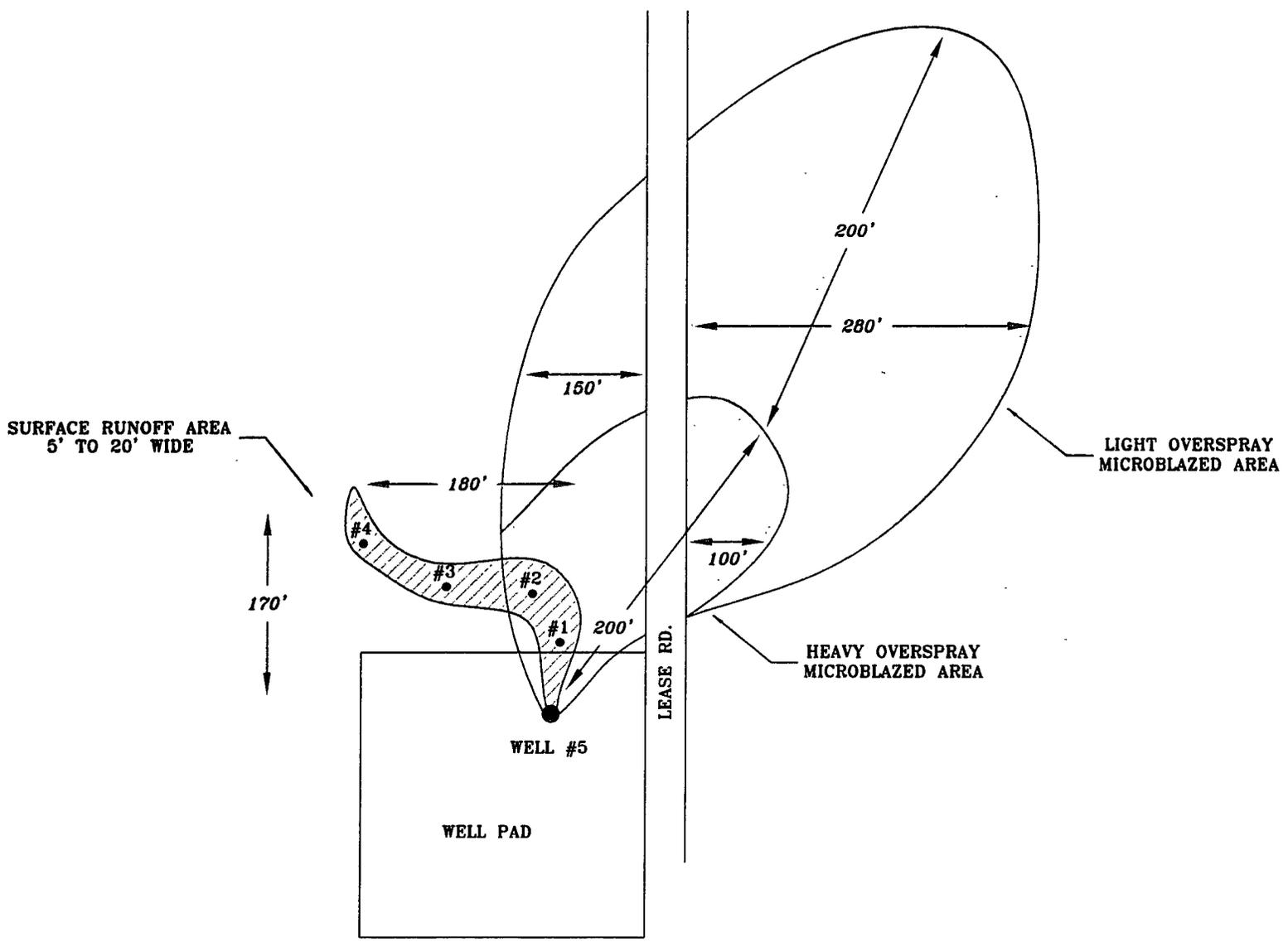


**FIGURE NO. 1
LEA COUNTY, NEW MEXICO
SOUTHWEST ROYALTIES, INC.
TOPOGRAPHIC MAP**



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www.delorme.com





- LIGHT OVERSPRAY
- HEAVY OVERSPRAY
- SPILL AREA
- SAMPLE LOCATIONS

FIGURE NO. 2

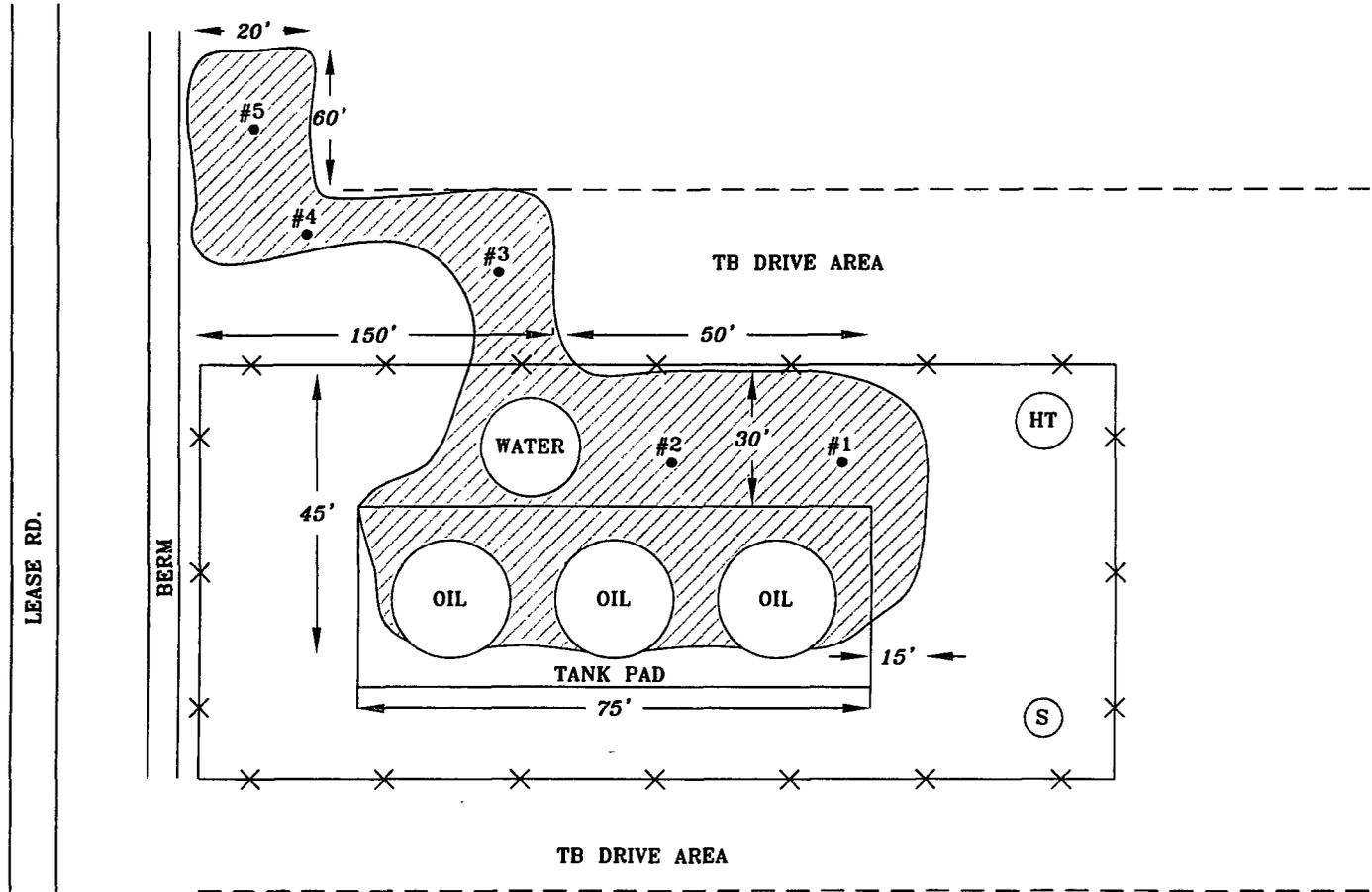
LEA COUNTY, NEW MEXICO

SOUTHWEST ROYALTIES, INC.
FARNSWORTH FED. B #5 WELL

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/9/06
DWN. BY: JJ
FILE: C:\SWRA\3724 FARNSWORTH FED. B #5

NOT TO SCALE

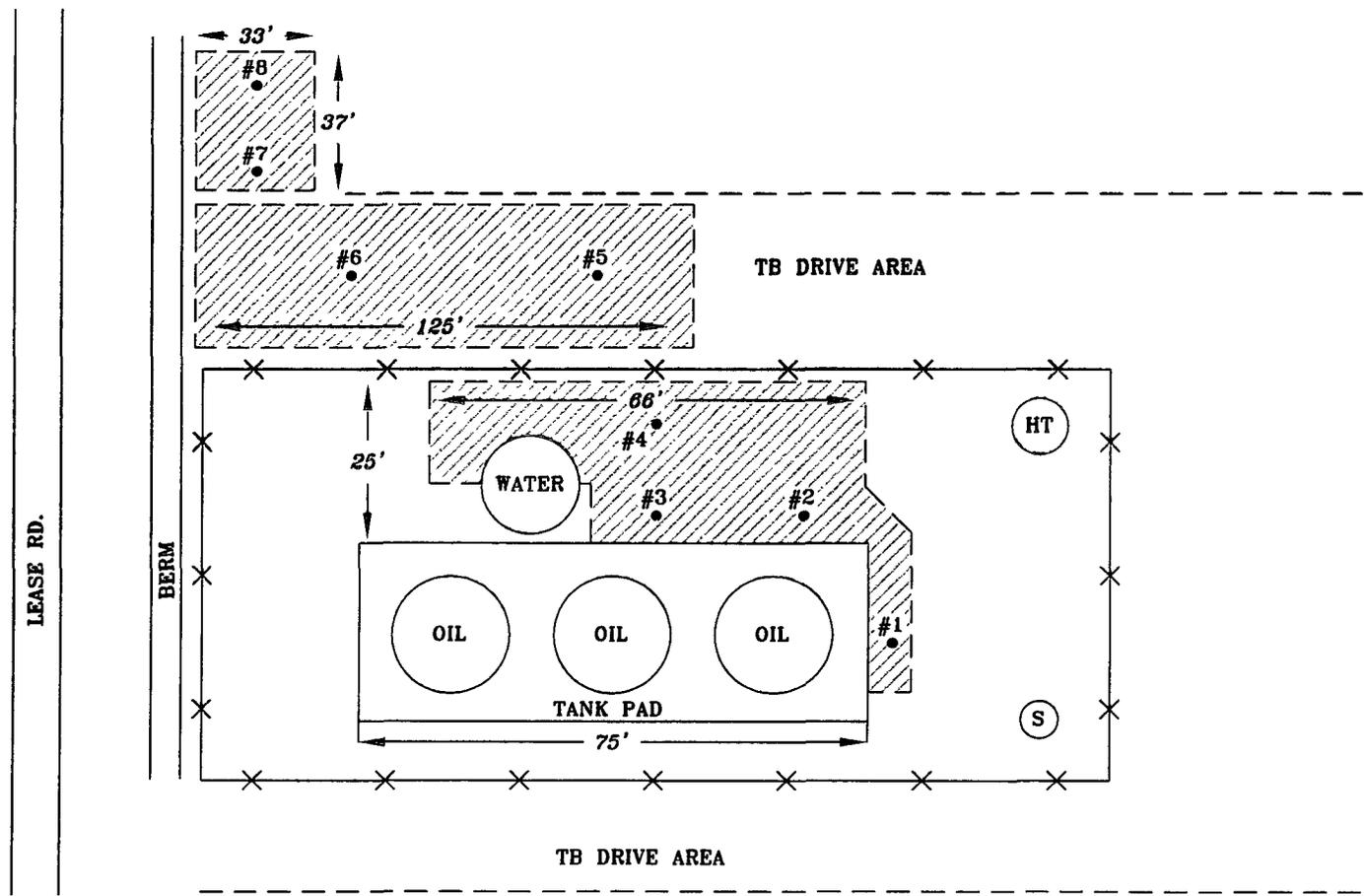


-  SPILL AREA
-  SAMPLE LOCATIONS

NOT TO SCALE

DATE:
10/9/06
DWN. BY:
JJ
FILE:
C:\WORK\2724
FARNSWORTH FED. B. J.

FIGURE NO. 3
LEA COUNTY, NEW MEXICO
SOUTHWEST ROYALTIES, INC. FARNSWORTH FED. B TB
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS



▨ EXCAVATED AREA
● SAMPLE LOCATIONS

NOT TO SCALE

DATE:
10/9/06
DWN. BY:
JJ
FILE:
C:\CWA\2724
FARNSWORTH FED. B #

FIGURE NO. 4	
LEA COUNTY, NEW MEXICO	
SOUTHWEST ROYALTIES, INC. FARNSWORTH FED. B TB	
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS	

TABLES

Table 1
Southwest Royalties, Inc.
Farnsworth Federal B #5 Well
Lea County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (m/p) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
		insitu	removed		C6-C12	C12-C28	C28-C35	Total						
AH-1	08/24/06	X		0-1.0	205	1,270	178	1,650	<0.05	0.059	0.114	0.289	0.113	2540
	08/24/06	X		1-1.5	<50	973.0	277	1,250	<0.025	<0.025	<0.025	<0.025	<0.025	273
AH-2	08/24/06	X		0-1.0'	4,810	18,300	1,550	24,700	0.205	1.58	1.26	3.28	1.46	6,890
	08/24/06	X		1-1.5	<50	466.0	155	621	<0.025	<0.025	<0.025	<0.025	<0.025	406
AH-3	08/24/06	X		0-1.0'	1,970	6,650	665	9,280	0.113	0.992	0.724	1.92	0.808	8,510
	08/24/06	X		1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	12,100
	08/24/06	X		2-2.5	-	-	-	-	-	-	-	-	-	3,200
	08/24/06	X		3-3.5	-	-	-	-	-	-	-	-	-	<5
AH-4	08/24/06	X		0-1.0'	5,960	21,100	1,670	28,700	0.225	1.83	1.30	3.63	1.31	1,480
	08/24/06	X		1-1.5	<50	475.0	129	604	<0.025	<0.025	<0.025	<0.025	<0.025	8.34

(-) Not Analyzed

Table 2
Southwest Royalties, Inc.
Farnsworth Federal B Tank Battery
Lea County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (m/p) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
		insitu	removed		C6-C12	C12-C28	C28-C35	Total						
AH-1	08/25/06		X	0-1.0	379	12,300	1,910	14,600	<0.025	0.079	0.0839	0.365	0.103	429
	08/25/06	X		1-1.5	<10	239	78.3	317	<0.025	<0.025	<0.025	<0.025	<0.025	62
	08/25/06	X		2-2.5	<50	1,040.0	285	1,320	-	-	-	-	-	40
	08/25/06	X		3-3.5	-	-	-	-	-	-	-	-	-	43.8
AH-2	08/25/06		X	0-1.0'	1,590	19,100	3,160	23,800	0.0435	0.589	0.371	1.76	0.45	408
	08/25/06		X	1-1.5	160.0	16,900	3,400	20,500	-	-	-	-	-	176
	08/25/06		X	2-2.5	163.0	6,330	1,300	7,790	-	-	-	-	-	81.9
	08/25/06	X		4-4.5	<50	530	243	773	<0.025	<0.025	<0.025	<0.025	<0.025	26
	08/25/06	X		5-5.5	-	-	-	-	-	-	-	-	-	41
AH-3	08/25/06		X	0-1.0'	50.9	4,220	1,010	5,280	<0.025	<0.025	<0.025	0.0463	<0.025	523
	08/25/06	X		1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	541
	08/25/06	X		2-2.5	-	-	-	-	-	-	-	-	-	508
AH-4	08/25/06		X	0-1.0'	3,540	10,300	963	14,800	0.762	3.94	2.55	9.05	2.04	369
	08/25/06	X		1-1.5	<10	208	73	281	<0.025	<0.025	<0.025	<0.025	<0.025	36.3
	08/25/06	X		2-2.5	-	-	-	-	-	-	-	-	-	45.5
AH-5	08/25/06	X		0-1.0'	560.0	1,460	108	2,130	0.340	2.09	1.49	3.08	1.17	244
	08/25/06	X		1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	47.5
	08/25/06	X		2-2.5	-	-	-	-	-	-	-	-	-	197

(-) Not Analyzed

Table 3
Southwest Royalties, Inc.
Farnsworth Federal B #5 Well
Lea County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (m/p) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
		insitu	removed		C6-C12	C12-C28	C28-C35	Total						
#1	11/13/06	X		0-1.0'	3,030	14,700	936	18,700	0.0118	0.247	0.263	0.492	0.313	893
	01/11/07	X		0-1.0'	155	4,930	317	5,400	-	-	-	-	-	-
	03/14/07	X		0-1.0'	20	372	64	456	-	-	-	-	-	-
#2	11/13/06	X		0-1.0'	1,900	9,200	569	11,700	0.0153	0.102	0.177	0.339	0.247	372
	01/11/07	X		0-1.0'	978	7,130	434	8,540	-	-	-	-	-	-
	03/14/07	X		0-1.0'	84	570	63	717	-	-	-	-	-	-
#3	11/13/06	X		0-1.0'	864	5,190	344	6,390	<0.0250	0.0541	0.127	0.240	0.184	787
	01/11/07	X		0-1.0'	910	8,140	561	9,610	-	-	-	-	-	-
	03/14/07	X		0-1.0'	1,040	3,980	477	5,500	-	-	-	-	-	-
	05/15/07	X		0-1.0'	2,480	9,290	859	12,600	-	-	-	-	-	-
	8/1/2007	X		0-1.0'	82	1670	1050	2802	-	-	-	-	-	-

(-) Not Analyzed

Table 4
 Southwest Royalties, Inc.
 Farnsworth Federal B Tank Battery
 Lea County, New Mexico

Sample ID	Date Sampled	Soil Status		Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (p/m) (mg/kg)	Xylene (o) (mg/kg)	Chloride (mg/kg)
		insitu	removed		C6-C12	C12-C28	C28-C35	Total						
AH-1	11/10/06	X		0-1.0' BEB	<10.0	25.2	<10.0	25.2	<0.025	<0.025	<0.025	<0.025	<0.025	-
AH-2	11/10/06	X		0-1.0' BEB	<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	-
AH-3	11/10/06	X		0-1.0' BEB	<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	-
AH-4	11/10/06	X		0-1.0' BEB	<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	-
AH-5	11/10/06	X		0-1.0' BEB	<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	-
AH-6	11/10/06	X		0-1.0' BEB	23.4	1,880	164	2,040	<0.025	<0.025	<0.025	<0.025	<0.025	-
AH-7	11/10/06	X		0-1.0' BEB	55.5	216	9.38	272	<0.025	<0.025	0.029	0.0714	0.0848	-
AH-8	11/10/06	X		0-1.0' BEB	<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	-
Stockpile #1	11/10/06	X			44.3	675	73.8	793	-	-	-	-	-	-
Stockpile #2	11/10/06		X		1,430	4,620	282	6,330	0.295	2.20	1.01	2.04	2.08	-
	01/11/07		X		661	4,620	403	5,680	-	-	-	-	-	-
	05/23/07		X		725	4,690	465	5,880	-	-	-	-	-	-
	08/01/07		X		332	3,760	1,530	5,622	-	-	-	-	-	-
Stockpile #3	11/10/06	X			286	2,860	246	3,390	<0.100	0.105	0.123	0.273	0.242	-
Stockpile #4	11/10/06	X			281	2,330	187	2,800	-	-	-	-	-	-
Stockpile #5	11/10/06	X			261	2,760	247	3,270	-	-	-	-	-	-
Stockpile #6	11/10/06	X			191	1,880	166	2,240	-	-	-	-	-	-
Stockpile #7	11/10/06	X			1,100	3,460	252	4,810	0.243	1.83	0.802	1.60	1.48	-
Stockpile #8	11/10/06	X			1,090	3,030	217	4,340	0.320	2.59	1.43	2.41	2.90	-

(-) Not Analyzed

APPENDIX A

Groundwater Data

Southwest Royalties
 Farnsworth Fed #5
 Average Depth to Groundwater (ft)

25 South 36 East

6	295	5	4	3	2	1
7		8		10	11	12
				180		
18	17	16	15	14	13	
			120			
19	20	21	22	23	24	
				53.7		
30	29	28	27	26	25	
31	32	33	34	35	36	

25 South 37 East

6		5	4	3	2	1
7		8		10	50	11
						60
18		17	62	16	15	14
					59.2	13
51						73
19	44	20	65	21	22	23
						24
62		34			26	255
30		29	28	27	26	25
		219			75	55
31	32	33	86	34	35	185
						36

25 South 38 East

6	5	4			
60					
7	8	9	95		
			88		
18	17	16			
58					
19	20	78	21	87	
69					
30	29	51	28		
31	32	33			

26 South 36 East

6	5	4	3	2	1
7	8	9	175	10	11
			177		12
18	17	16	15	14	13
220					
19	20	21	22	23	24
				151	
30	29	28	27	26	25
31	32	33	34	35	36

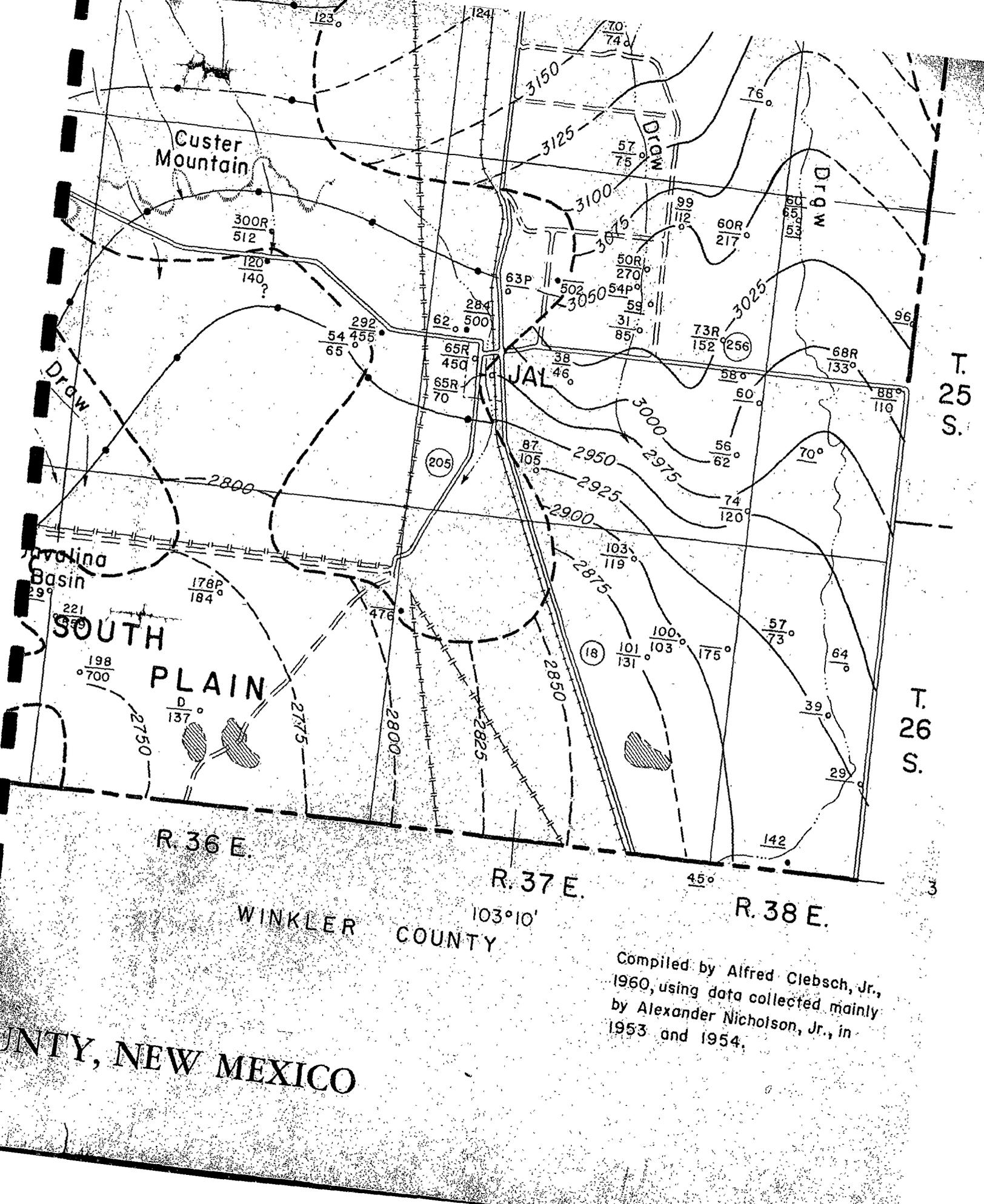
26 South 37 East

6	5	4	3	2	1
				100	
				103	
7	SITE	8	9	85	10
					11
196					12
					97
18	17	16	15	14	100
					13
				95	
19	20	21	22	23	24
185					
30	29	86	28	27	26
					25
				120	
31	32	33	34	35	36

26 South 38 East

6	5	4			
7	8	9			
18	17	16			
19	20	21			
30	29	28			
31	32	33			

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)



Compiled by Alfred Clebsch, Jr.,
 1960, using data collected mainly
 by Alexander Nicholson, Jr., in
 1953 and 1954.

WINKLER COUNTY, NEW MEXICO

TABLE 6. RECORDS OF WELLS IN SOUTHERN LEA COUNTY, N. MEX. (continued)

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level		Year completed	Surface diameter of wells	Method of lift	Use of water	Remarks
					Depth below land surface (feet)	Date measured					
25.38.19.342	Pure Oil Co.	To(?)	133	3,061	68	1952	—	—	—	In	Dollarhide Gasoline Plant well 2.
21.121	Tom Linebury	To	110	3,103	87.7	2-12-53	—	7	Lw	S	—
29.131	—	Qal	—	3,040	69.9	2-15-53	—	6	Lw	N	—
26.32.21.322	Battle Ax Ranch	Tr(?)	253	3,140	180	7-23-54	—	—	Li	D,S	—
26.33.3.444	W. D. Dinwiddie	Qal	180	3,315	102.8	7-23-54	—	6	N	N	—
3.444a	do.	Qal	—	3,315	—	—	—	6(?)	Lw	S	Chemical analysis in table 8. Located 50 feet west of 26.33.3.444.
9.443	—	Qal(?)	—	3,280	106.6	7-26-54	—	—	Lw	S	—
22.433	Battle Ax Ranch	Qal	200(?)	3,270	79.7	7-26-54	—	6	Lw	S	—
26.34.6.213	—	Tr	360	3,330	141.9	7-23-54	—	8	Lw	S	—
26.35.13.222	—	Qal	—	2,990	229.1	12-12-58	—	7	Lw	S	Chemical analysis in table 8.
26.36.9.440	Frank Antheys	Qal	184M	2,940	177.8	12-12-58	—	7	Lw	D,S	MWP
18.311	City of Jal	Qal	559	2,981	220.8	3-17-60	1960	24	Te(?)	P	Yield 453 gpm. Gravel packed. WBZ 275-300, 400-465, 500-530 feet.
19.233	do.	Qal	700	2,950	198.0	—	1960	24	Te(?)	P	Yield 408 gpm. Gravel packed. WBZ 270-280, 400-480, 550-600, 670-680 feet.
21.443	—	—	137(?)	2,900	Dry	12-11-58	—	11	N	N	—
26.37.2.133	Clyde Cooper	Qal(?)	119	3,000	103.4	2-16-53	1937	8	Lw	S	—
7.331	EPNG	Tr	476	2,960	—	—	1937	8½	Te	In,D	Jal Plant 1, well 1.
12.314	—	Qal	—	3,010	102.3	2-16-53	—	9½	N	N	—
12.331	—	Qal	103 ± M	3,000	99.9	2-17-53	—	3	N	N	Cased shothole.
12.441	Humble Oil Co.	Qal	175	—	—	—	1944	—	—	—	WBZ 125-150 feet. EY 68 gpm.
14.122	—	Qal	131M	2,985	100.6	2-17-53	—	3	N	N	Cased shothole.
26.38.7.244	Tom Linebury	Qal	73	3,000	57.1	2-24-53	—	8½	N	N	—
8.444	do.	Qal	66	3,000	64.5	2-24-53	—	6½	Lw	S	—
17.414	do.	Qal	—	2,975	39.4	2-24-53	—	5½	Lw	S	—
21.344	do.	Qal	—	2,955	29.0	2-13-53	—	3	N	N	Cased shothole.
32.141	do.	Tr(?)	—	2,950	142.4	2-13-53	—	26	N	N	—

TABLE 7. RECORDS OF SELECTED WELLS IN TEXAS ADJACENT TO SOUTHERN LEA COUNTY, N. MEX.
 Explanations of symbols are included in the headnotes of Table 6.

Location No.	Owner	Aquifer	Depth of well (feet)	Altitude of well (feet)	Water level			Surface diameter of wells	Method of lift	Use of water	Remarks
					Depth below land surface (feet)	Date measured	Year completed				
Gaines County Tex.											
A-12.25.341	—	To	50(?)	3,545	40.8	12- 9-53	—	6	Lw	N	—
A-28.3.413	Greenwood	—	—	3,485	35.1	12- 9-53	—	—	Lw	S	—
Andrews County, Tex.											
A-29.17.320	H. O. Sims	To(?)	82	3,510	79.4	7-28-40	—	—	Lw	S	—
A-39.4.420	do.	To	81	3,478	72.4	10- 9-53	—	6½	Lw	S	—
A-39.14.111	Humble Oil Co.	—	215	3,410	Dry	—	—	—	—	—	—
A-40.16.330	M. L. Goins	To	80	3,305	74.1	10-15-53	—	—	Lw	D,S	—
Winkler County, Tex.											
C-22.6	Tom Linebury	Qal	—	2,940	45.0	2-13-53	—	6	N	N	—

Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320104103120301

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

USGS 320104103120301 26S.37E.19.433143

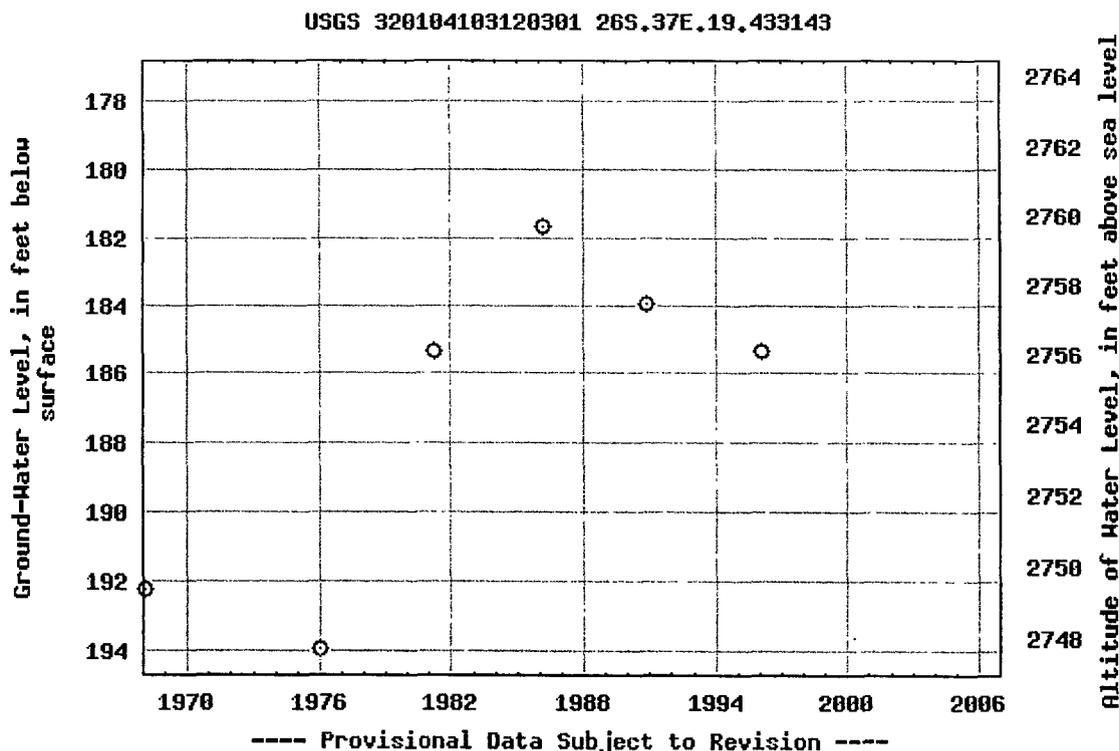
Available data for this site Ground-water: Field measurements

GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°01'04", Longitude 103°12'03" NAD27
 Land-surface elevation 2,941.40 feet above sea level NGVD29
 The depth of the well is 500 feet below land surface.
 This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320251103071401

Save file of selected sites to local disk for future upload

USGS 320251103071401 26S.37E.12.33243

Available data for this site

Ground-water: Field measurements

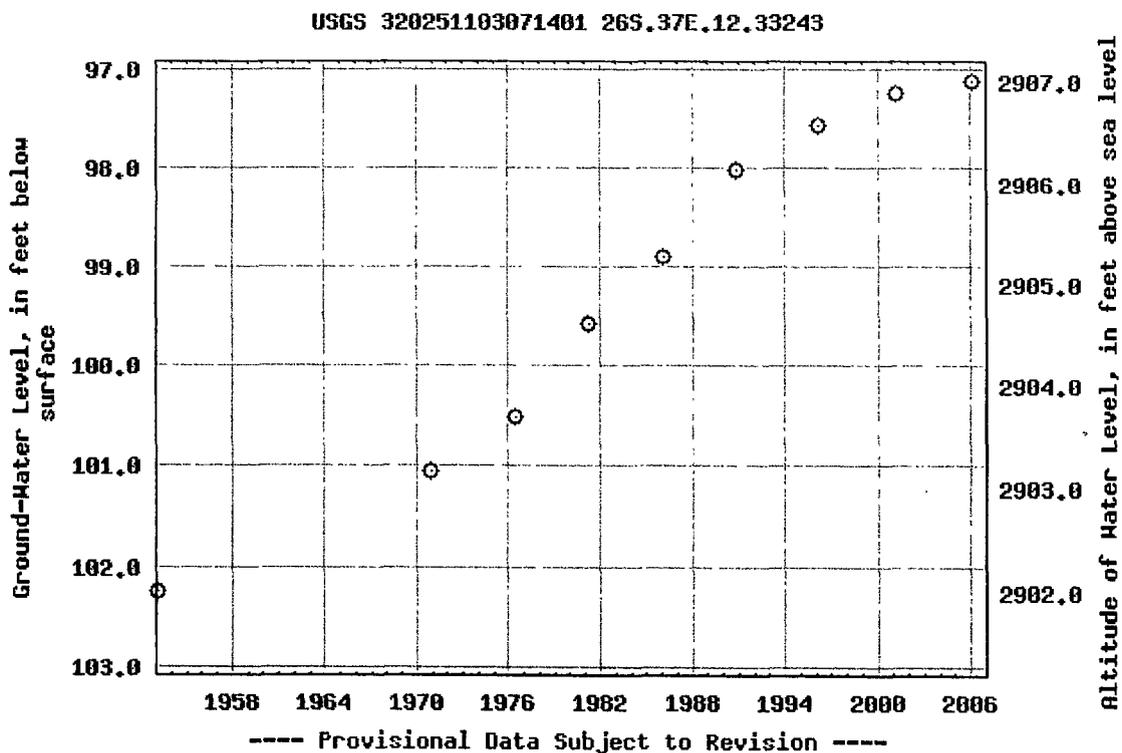


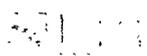
GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°02'51", Longitude 103°07'14" NAD27
 Land-surface elevation 3,004.20 feet above sea level NGVD29
 The depth of the well is 160 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





Water Resources

National Water Information System: Web Interface

Data Category: Ground Water



Geographic Area: New Mexico



GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320259103122201

Save file of selected sites to local disk for future upload

USGS 320259103122201 26S.37E.07.314424

Available data for this site

Ground-water: Field measurements



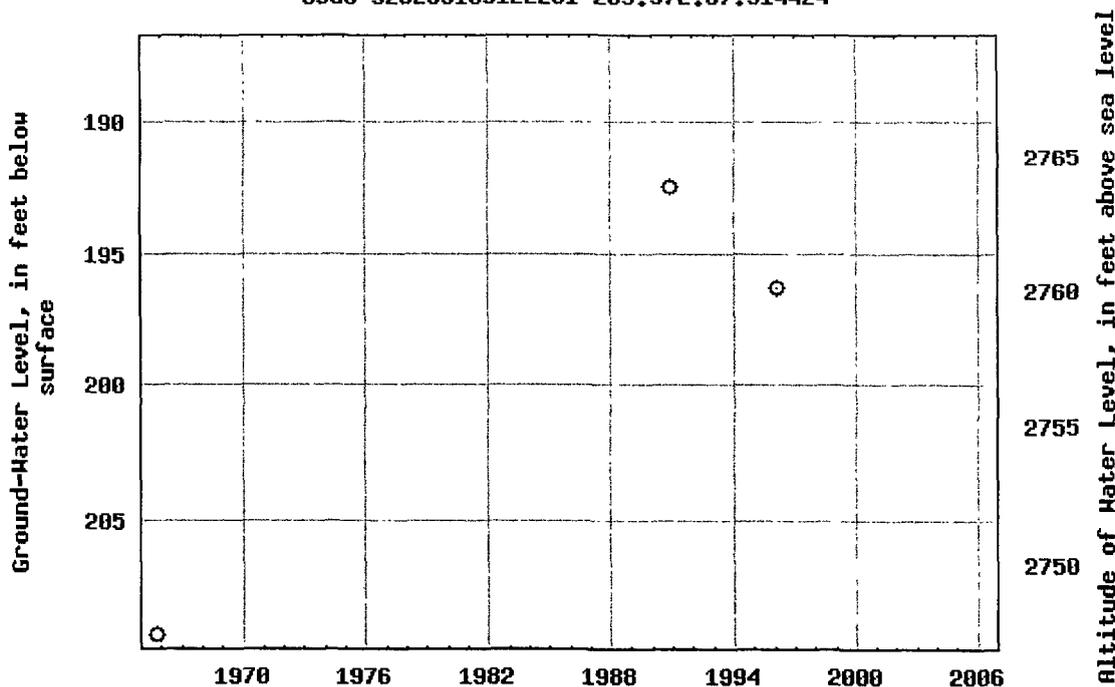
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Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°02'59", Longitude 103°12'22" NAD27
 Land-surface elevation 2,956.40 feet above sea level NGVD29
 The depth of the well is 470 feet below land surface.
 This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)

USGS 320259103122201 26S.37E.07.314424



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

Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320042103103901

Save file of selected sites to local disk for future upload

USGS 320042103103901 26S.37E.29.24230

Available data for this site

Ground-water: Field measurements

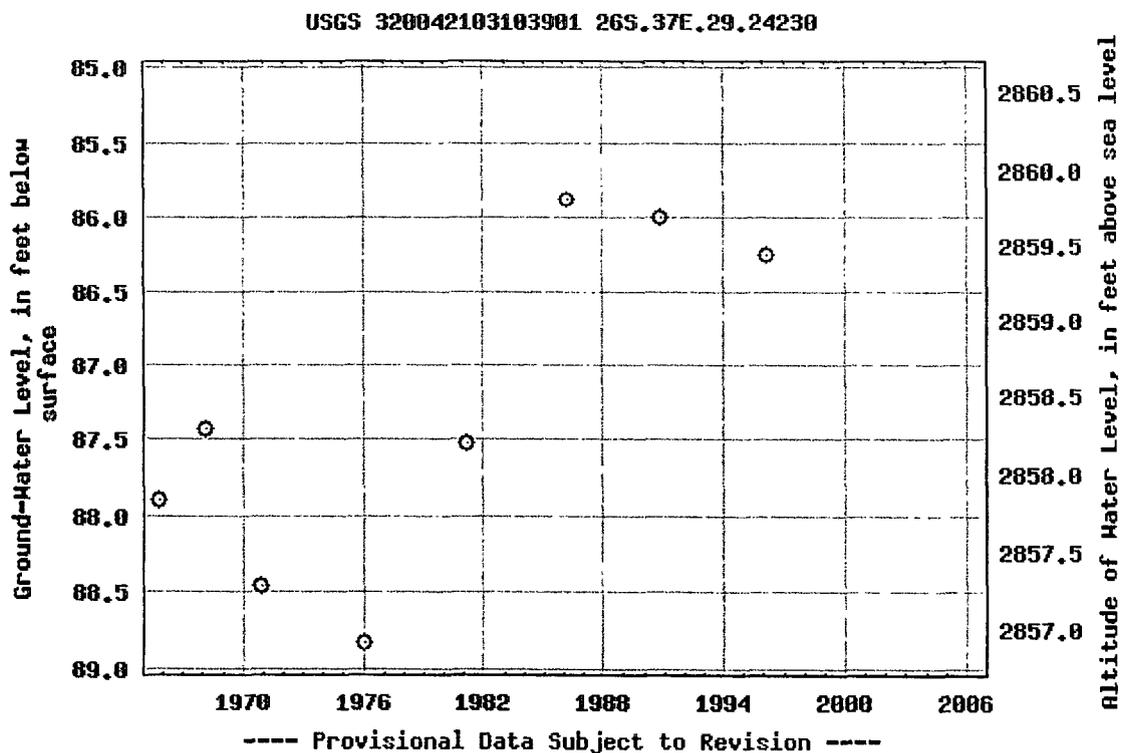


GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°00'42", Longitude 103°10'39" NAD27
 Land-surface elevation 2,945.70 feet above sea level NGVD29
 The depth of the well is 115 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](#)



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

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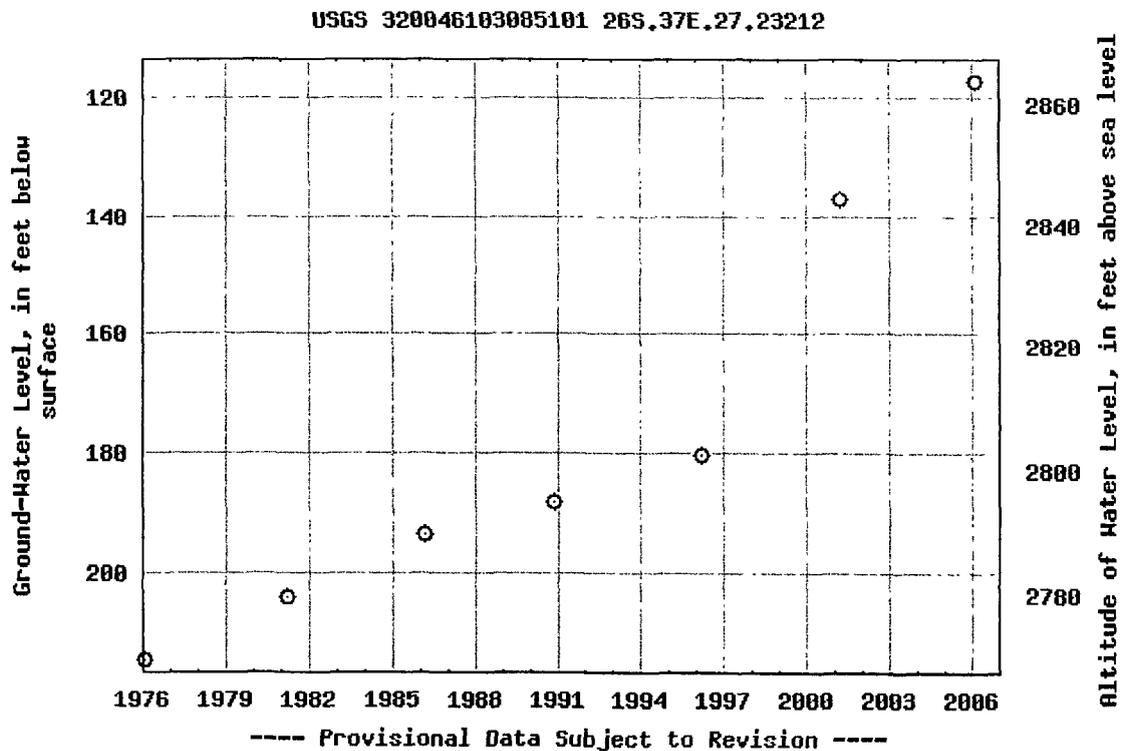
Available data for this site Ground-water: Field measurements

GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°00'46", Longitude 103°08'51" NAD27
 Land-surface elevation 2,982.20 feet above sea level NGVD29
 The depth of the well is 525 feet below land surface.
 This well is completed in the SANTA ROSA SANDSTONE (231SNRS) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320303103100901

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USGS 320303103100901 26S.37E.09.32411A

Available data for this site Ground-water: Field measurements

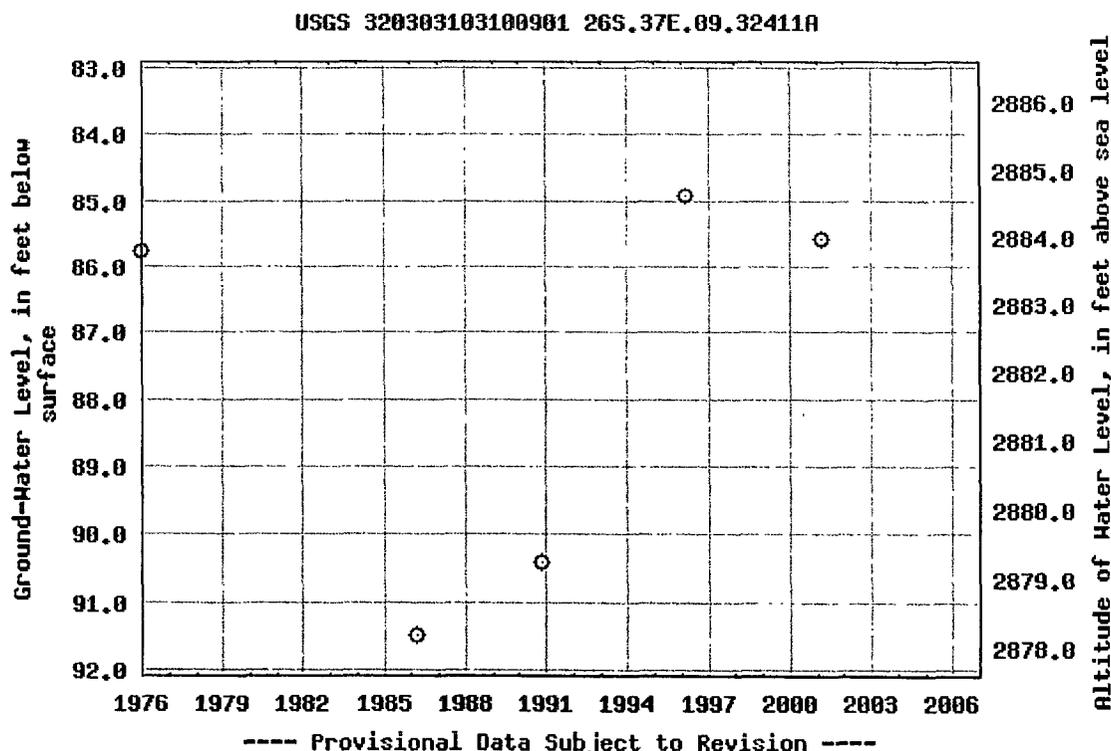


GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°03'03", Longitude 103°10'09" NAD27
 Land-surface elevation 2,969.60 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



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

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Available data for this site

Ground-water: Field measurements

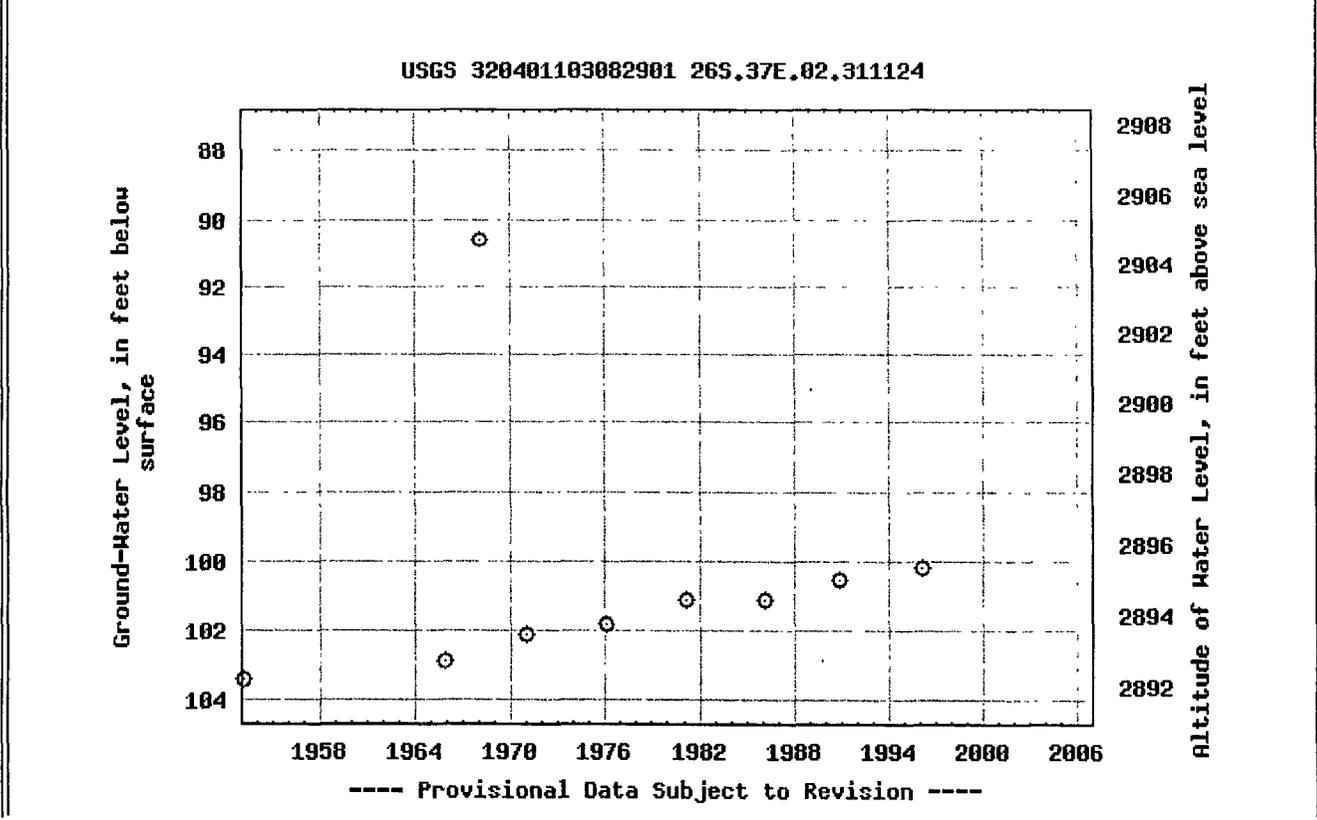


GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°04'01", Longitude 103°08'29" NAD27
 Land-surface elevation 2,995.40 feet above sea level NGVD29
 The depth of the well is 119 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



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 320149103134201

Save file of selected sites to local disk for future upload

USGS 320149103134201 26S.36E.23.222322

Available data for this site Ground-water: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°01'49", Longitude 103°13'42" NAD27

Land-surface elevation 2,925.80 feet above sea level NGVD29

The depth of the well is 200 feet below land surface.

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

Output formats

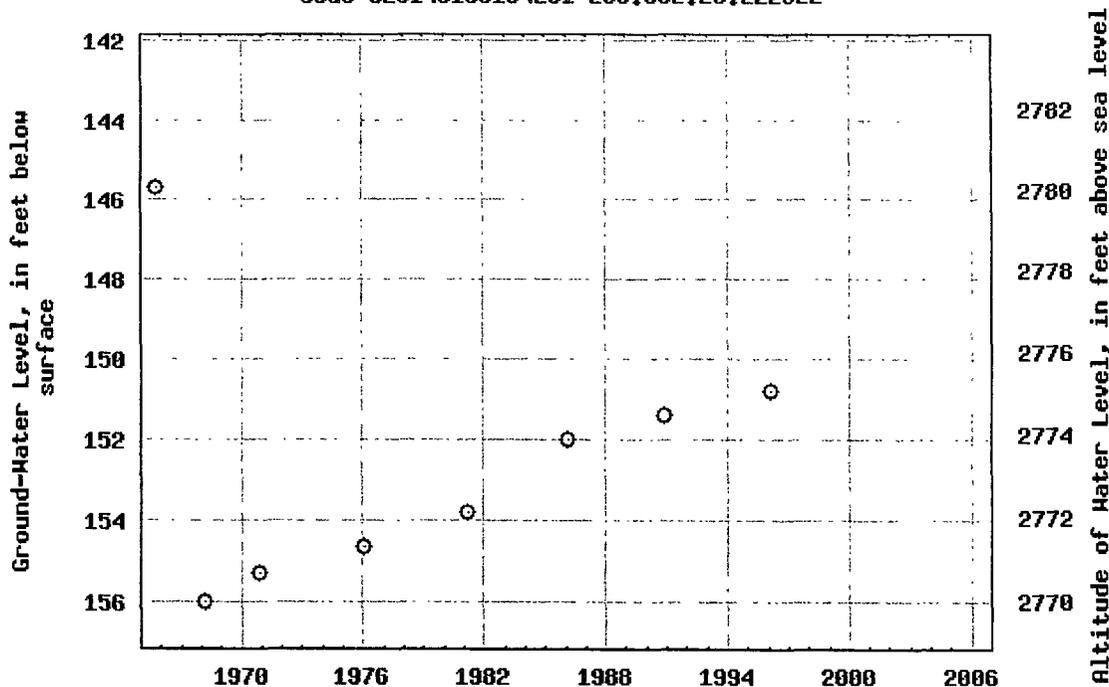
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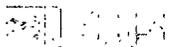
Graph of data

Reselect period

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



Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico

GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

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Available data for this site

Ground-water: Field measurements

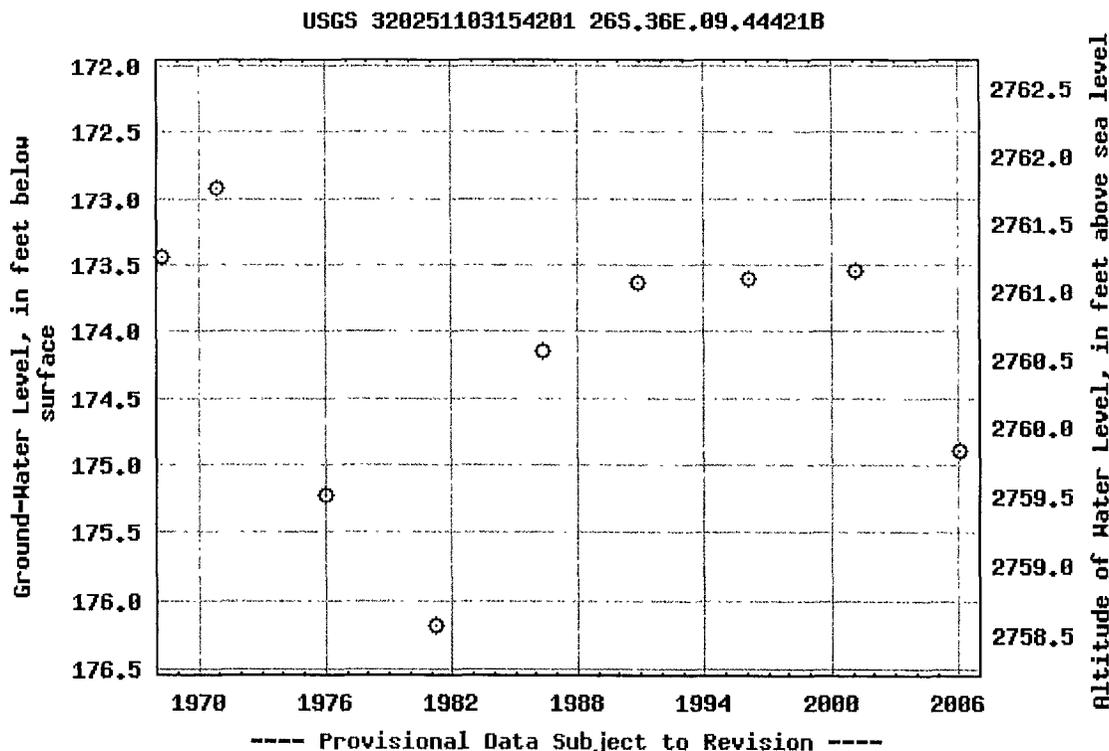


GO

Lea County, New Mexico
 Hydrologic Unit Code 13070007
 Latitude 32°02'51", Longitude 103°15'42" NAD27
 Land-surface elevation 2,934.70 feet above sea level NGVD29
 The depth of the well is 200 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





Water Resources

National Water Information System: Web Interface

Data Category: Ground Water

Geographic Area: New Mexico



Ground-water levels for New Mexico

Search Results -- 1 sites found

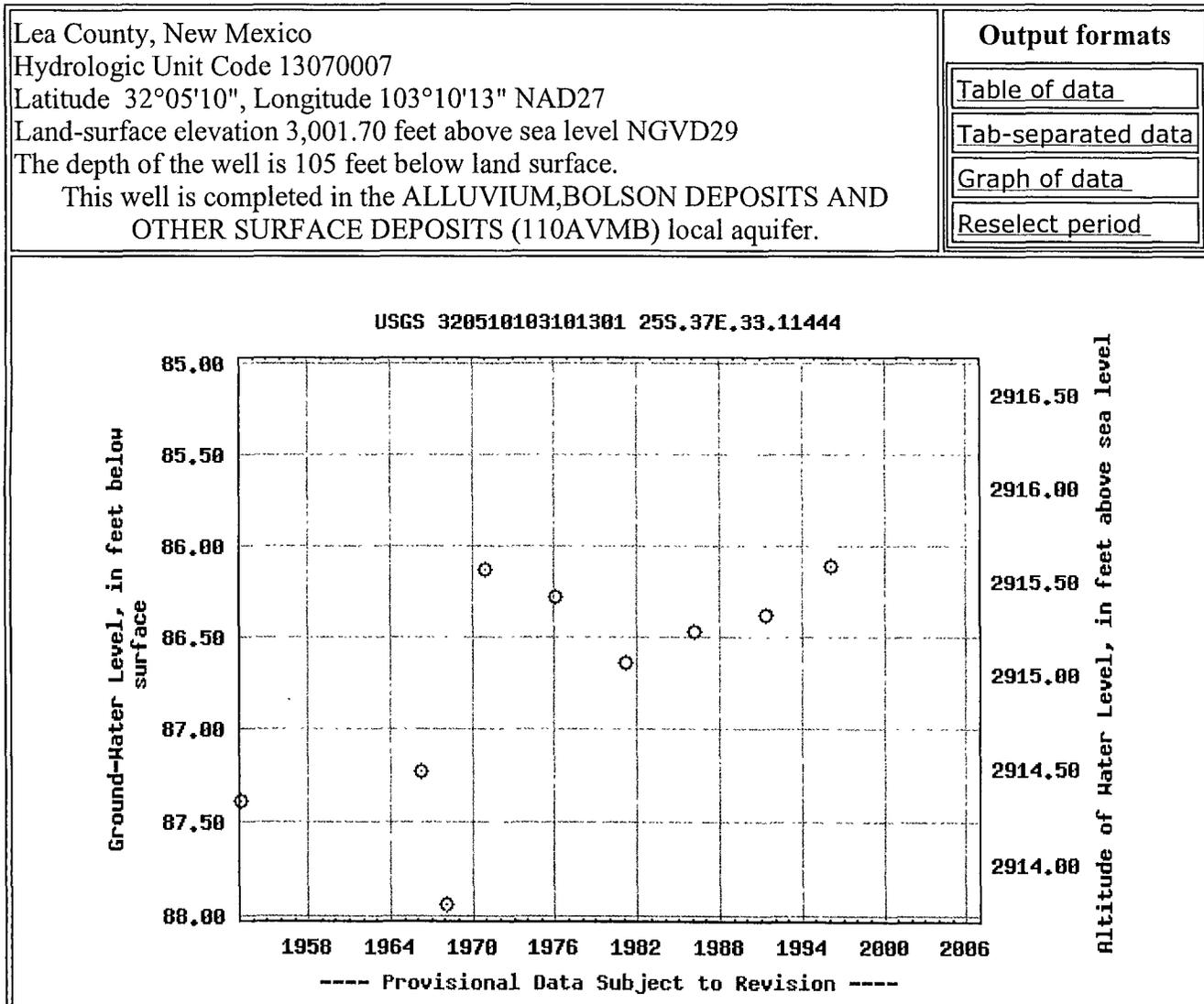
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USGS 320510103101301 25S.37E.33.11444

Available data for this site Ground-water: Field measurements



New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 26S 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 08/28/2006

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

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 25S 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 08/28/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	25S	37E	19				9	27	63	44
CP	25S	37E	20				6	23	60	34
CP	25S	37E	29				5	187	250	219
CP	25S	37E	35				1	185	185	185

Record Count: 21

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 26S Range: 36E 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 08/28/2006

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

No Records found, try again

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 25S Range: 36E 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

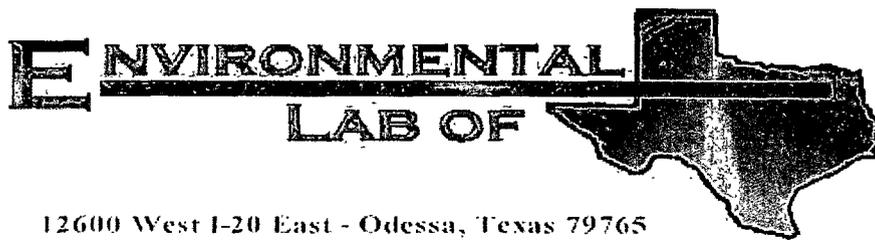
AVERAGE DEPTH OF WATER REPORT 08/28/2006

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

No Records found, try again

APPENDIX B

Analytical Reports



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: SWR/ Farnsworth Fed. B Tank Battery

Project Number: 2724

Location: Lea County, NM

Lab Order Number: 6K15013

Report Date: 11/21/06

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

Project SWR/ Farnsworth Fed. B Tank Battery
Project Number 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 0-1 0' BEB	6K15013-01	Soil	11/10/06 00 00	11-15-2006 14 00
AH-2 0-1 0' BEB	6K15013-02	Soil	11/10/06 00 00	11-15-2006 14 00
AH-3 0-1 0' BEB	6K15013-03	Soil	11/10/06 00:00	11-15-2006 14 00
AH-4 0-1 0' BEB	6K15013-04	Soil	11/10/06 00 00	11-15-2006 14:00
AH-5 0-1 0' BEB	6K15013-05	Soil	11/10/06 00 00	11-15-2006 14:00
AH-6 0-1 0' BEB	6K15013-06	Soil	11/10/06 00 00	11-15-2006 14:00
AH-7 0-1 0' BEB	6K15013-07	Soil	11/10/06 00:00	11-15-2006 14 00
AH-8 0-1 0' BEB	6K15013-08	Soil	11/10/06 00:00	11-15-2006 14 00
Stockpile #1	6K15013-09	Soil	11/10/06 00:00	11-15-2006 14 00
Stockpile #2	6K15013-10	Soil	11/10/06 00 00	11-15-2006 14.00
Stockpile #3	6K15013-11	Soil	11/10/06 00 00	11-15-2006 14 00
Stockpile #4	6K15013-12	Soil	11/10/06 00:00	11-15-2006 14 00
Stockpile #5	6K15013-13	Soil	11/10/06 00 00	11-15-2006 14:00
Stockpile #6	6K15013-14	Soil	11/10/06 00 00	11-15-2006 14:00
Stockpile #7	6K15013-15	Soil	11/10/06 00 00	11-15-2006 14 00
Stockpile #8	6K15013-16	Soil	11/10/06 00 00	11-15-2006 14 00

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

Project SWR/ Farnsworth Fed. B Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1.0' BEB (6K15013-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		112 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.8 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	25.2	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	25.2	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		94.0 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		128 %	70-130		"	"	"	"	
AH-2 0-1.0' BEB (6K15013-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		97.6 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		126 %	70-130		"	"	"	"	
AH-3 0-1.0' BEB (6K15013-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		96.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		124 %	70-130		"	"	"	"	

Highlander Environmental Corp 1910 N. Big Spring St Midland TX, 79705	Project: SWR/ Farnsworth Fed B Tank Battery Project Number: 2724 Project Manager: Ike Tavarez	Fax: (432) 682-3946
-----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	---------------------

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-4 0-1.0' BEB (6K15013-04) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		70.5 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		82.8 %	70-130		"	"	"	"	
AH-5 0-1.0' BEB (6K15013-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		97.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		126 %	70-130		"	"	"	"	
AH-6 0-1.0' BEB (6K15013-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		116 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	J [23.4]	50.0	mg/kg dry	5	EK61509	11/15/06	11/16/06	EPA 8015M	J
Carbon Ranges C12-C28	1880	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	164	50.0	"	"	"	"	"	"	
Total Hydrocarbons	2040	50.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		16.9 %	70-130		"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		24.8 %	70-130		"	"	"	"	S-06

Highlander Environmental Corp
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 Project Number 2724
 Project Manager Ike Tavarez

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-7 0-1.0' BEB (6K15013-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0290	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.0714	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0848	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.5 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	55.5	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	216	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	J [9.38]	10.0	"	"	"	"	"	"	J
Total Hydrocarbons	272	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		102 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		126 %	70-130	"	"	"	"	"	
AH-8 0-1.0' BEB (6K15013-08) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		90.4 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		115 %	70-130	"	"	"	"	"	
Stockpile #1 (6K15013-09) Soil									
Carbon Ranges C6-C12	44.3	10.0	mg/kg dry	1	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	675	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	73.8	10.0	"	"	"	"	"	"	
Total Hydrocarbons	793	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		99.6 %	70-130	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		127 %	70-130	"	"	"	"	"	

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #2 (6K15013-10) Soil									
Benzene	0.295	0 100	mg/kg dry	100	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	2.20	0 100	"	"	"	"	"	"	
Ethylbenzene	1.01	0 100	"	"	"	"	"	"	
Xylene (p/m)	2.04	0 100	"	"	"	"	"	"	
Xylene (o)	2.08	0 100	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		155 %	80-120		"	"	"	"	S-04
Surrogate 4-Bromofluorobenzene		131 %	80-120		"	"	"	"	S-04
Carbon Ranges C6-C12	1430	50 0	mg/kg dry	5	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	4620	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	282	50 0	"	"	"	"	"	"	
Total Hydrocarbons	6330	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		22.8 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		26.2 %	70-130		"	"	"	"	S-06
Stockpile #3 (6K15013-11) Soil									
Benzene	ND	0 100	mg/kg dry	100	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	0.105	0 100	"	"	"	"	"	"	
Ethylbenzene	0.123	0 100	"	"	"	"	"	"	
Xylene (p/m)	0.273	0 100	"	"	"	"	"	"	
Xylene (o)	0.242	0 100	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate 4-Bromofluorobenzene		88.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	286	50 0	mg/kg dry	5	EK61509	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	2860	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	246	50 0	"	"	"	"	"	"	
Total Hydrocarbons	3390	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		17.9 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		23.8 %	70-130		"	"	"	"	S-06
Stockpile #4 (6K15013-12) Soil									
Carbon Ranges C6-C12	281	50 0	mg/kg dry	5	EK61511	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	2330	50 0	"	"	"	"	"	"	
Carbon Ranges C28-C35	187	50 0	"	"	"	"	"	"	
Total Hydrocarbons	2800	50 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		19.0 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		28.0 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #5 (6K15013-13) Soil									
Carbon Ranges C6-C12	261	50.0	mg/kg dry	5	EK61511	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	2760	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	247	50.0	"	"	"	"	"	"	
Total Hydrocarbons	3270	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		17.8 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		24.4 %	70-130	"	"	"	"	"	S-06
Stockpile #6 (6K15013-14) Soil									
Carbon Ranges C6-C12	191	50.0	mg/kg dry	5	EK61511	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	1880	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	166	50.0	"	"	"	"	"	"	
Total Hydrocarbons	2240	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		17.7 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		24.4 %	70-130	"	"	"	"	"	S-06
Stockpile #7 (6K15013-15) Soil									
Benzene	0.243	0.100	mg/kg dry	100	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	1.83	0.100	"	"	"	"	"	"	
Ethylbenzene	0.802	0.100	"	"	"	"	"	"	
Xylene (p/m)	1.60	0.100	"	"	"	"	"	"	
Xylene (o)	1.48	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		155 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		114 %	80-120	"	"	"	"	"	
Carbon Ranges C6-C12	1100	50.0	mg/kg dry	5	EK61511	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	3460	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	252	50.0	"	"	"	"	"	"	
Total Hydrocarbons	4810	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		22.8 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		25.0 %	70-130	"	"	"	"	"	S-06

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 Project Manager. Ike Tavarez

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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #8 (6K15013-16) Soil									
Benzene	0.320	0.100	mg/kg dry	100	EK61904	11/19/06	11/20/06	EPA 8021B	
Toluene	2.59	0.100	"	"	"	"	"	"	
Ethylbenzene	1.43	0.100	"	"	"	"	"	"	
Xylene (p/m)	2.41	0.100	"	"	"	"	"	"	
Xylene (o)	2.90	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		178 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		125 %	80-120	"	"	"	"	"	S-04
Carbon Ranges C6-C12	1090	50.0	mg/kg dry	5	EK61511	11/15/06	11/16/06	EPA 8015M	
Carbon Ranges C12-C28	3030	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	217	50.0	"	"	"	"	"	"	
Total Hydrocarbons	4340	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		21.0 %	70-130	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		24.8 %	70-130	"	"	"	"	"	S-06

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Project SWR/ Farnsworth Fed. B Tank Battery
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**General Chemistry Parameters by EPA / Standard Methods
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1.0' BEB (6K15013-01) Soil									
% Moisture	6.9	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-2 0-1.0' BEB (6K15013-02) Soil									
% Moisture	4.9	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-3 0-1.0' BEB (6K15013-03) Soil									
% Moisture	8.2	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-4 0-1.0' BEB (6K15013-04) Soil									
% Moisture	6.6	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-5 0-1.0' BEB (6K15013-05) Soil									
% Moisture	8.2	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-6 0-1.0' BEB (6K15013-06) Soil									
% Moisture	7.5	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-7 0-1.0' BEB (6K15013-07) Soil									
% Moisture	12.1	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
AH-8 0-1.0' BEB (6K15013-08) Soil									
% Moisture	8.7	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #1 (6K15013-09) Soil									
% Moisture	8.6	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #2 (6K15013-10) Soil									
% Moisture	10.2	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #3 (6K15013-11) Soil									
% Moisture	7.9	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #4 (6K15013-12) Soil									
% Moisture	9.6	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #5 (6K15013-13) Soil									
% Moisture	8.1	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #6 (6K15013-14) Soil									
% Moisture	6.3	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #7 (6K15013-15) Soil									
% Moisture	9.4	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	
Stockpile #8 (6K15013-16) Soil									
% Moisture	9.5	0.1	%	1	EK61603	11/15/06	11/15/06	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch EK61509 - Solvent Extraction (GC)

Blank (EK61509-BLK1)

Prepared & Analyzed 11/15/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
<i>Surrogate: 1-Chlorooctane</i>	46.0		mg/kg	50.0		92.0	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	61.6		"	50.0		123	70-130			

LCS (EK61509-BS1)

Prepared & Analyzed, 11/15/06

Carbon Ranges C6-C12	454	10.0	mg/kg wet	500		90.8	75-125			
Carbon Ranges C12-C28	434	10.0	"	500		86.8	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	888	10.0	"	1000		88.8	75-125			
<i>Surrogate: 1-Chlorooctane</i>	57.3		mg/kg	50.0		115	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	63.1		"	50.0		126	70-130			

Calibration Check (EK61509-CCV1)

Prepared 11/15/06 Analyzed 11/16/06

Carbon Ranges C6-C12	214		mg/kg	250		85.6	80-120			
Carbon Ranges C12-C28	261		"	250		104	80-120			
Total Hydrocarbons	475		"	500		95.0	80-120			
<i>Surrogate: 1-Chlorooctane</i>	55.9		"	50.0		112	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	64.1		"	50.0		128	70-130			

Matrix Spike (EK61509-MS1)

Source: 6K15013-02

Prepared: 11/15/06 Analyzed: 11/16/06

Carbon Ranges C6-C12	502	10.0	mg/kg dry	526	ND	95.4	75-125			
Carbon Ranges C12-C28	493	10.0	"	526	ND	93.7	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	995	10.0	"	1050	ND	94.8	75-125			
<i>Surrogate: 1-Chlorooctane</i>	60.6		mg/kg	50.0		121	70-130			
<i>Surrogate: 1-Chlorooctadecane</i>	58.3		"	50.0		117	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK61509 - Solvent Extraction (GC)

Matrix Spike Dup (EK61509-MSD1)

Source: 6K15013-02

Prepared 11/15/06 Analyzed 11/16/06

Carbon Ranges C6-C12	501	10.0	mg/kg dry	526	ND	95.2	75-125	0.199	20	
Carbon Ranges C12-C28	490	10.0	"	526	ND	93.2	75-125	0.610	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	990	10.0	"	1050	ND	94.3	75-125	0.504	20	
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	64.6		"	50.0		129	70-130			

Batch EK61511 - Solvent Extraction (GC)

Blank (EK61511-BLK1)

Prepared 11/15/06 Analyzed 11/16/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chlorooctadecane	61.9		"	50.0		124	70-130			

LCS (EK61511-BS1)

Prepared 11/15/06 Analyzed 11/16/06

Carbon Ranges C6-C12	458	10.0	mg/kg wet	500		91.6	75-125			
Carbon Ranges C12-C28	441	10.0	"	500		88.2	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	899	10.0	"	1000		89.9	75-125			
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130			

Calibration Check (EK61511-CCV1)

Prepared 11/15/06 Analyzed 11/16/06

Carbon Ranges C6-C12	214		mg/kg	250		85.6	80-120			
Carbon Ranges C12-C28	275		"	250		110	80-120			
Total Hydrocarbons	488		"	500		97.6	80-120			
Surrogate: 1-Chlorooctane	57.8		"	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	63.4		"	50.0		127	70-130			

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK61511 - Solvent Extraction (GC)

Matrix Spike (EK61511-MS1)		Source: 6K15015-03		Prepared: 11/15/06		Analyzed: 11/16/06	
Carbon Ranges C6-C12	571	10.0	mg/kg dry	602	6.12	93.8	75-125
Carbon Ranges C12-C28	585	10.0	"	602	55.5	88.0	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbons	1160	10.0	"	1200	55.5	92.0	75-125
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	70-130
Surrogate: 1-Chlorooctadecane	65.0		"	50.0		130	70-130

Matrix Spike Dup (EK61511-MSD1)		Source: 6K15015-03		Prepared: 11/15/06		Analyzed: 11/16/06			
Carbon Ranges C6-C12	566	10.0	mg/kg dry	602	6.12	93.0	75-125	0.880	20
Carbon Ranges C12-C28	561	10.0	"	602	55.5	84.0	75-125	4.19	20
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20
Total Hydrocarbons	1130	10.0	"	1200	55.5	89.5	75-125	2.62	20
Surrogate: 1-Chlorooctane	59.8		mg/kg	50.0		120	70-130		
Surrogate: 1-Chlorooctadecane	64.5		"	50.0		129	70-130		

Batch EK61904 - EPA 5030C (GC)

Blank (EK61904-BLK1)				Prepared: 11/19/06		Analyzed: 11/20/06	
Benzene	ND	0.0250	mg/kg wet				
Toluene	ND	0.0250	"				
Ethylbenzene	ND	0.0250	"				
Xylene (p/m)	ND	0.0250	"				
Xylene (o)	ND	0.0250	"				
Surrogate: a,a,a-Trifluorotoluene	46.2		ug/kg	40.0		116	80-120
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120

LCS (EK61904-BS1)				Prepared: 11/19/06		Analyzed: 11/20/06	
Benzene	1.33	0.0250	mg/kg wet	1.25		106	80-120
Toluene	1.24	0.0250	"	1.25		99.2	80-120
Ethylbenzene	1.29	0.0250	"	1.25		103	80-120
Xylene (p/m)	2.25	0.0250	"	2.50		90.0	80-120
Xylene (o)	1.07	0.0250	"	1.25		85.6	80-120
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/kg	40.0		91.2	80-120
Surrogate: 4-Bromofluorobenzene	44.6		"	40.0		112	80-120

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

Project SWR/ Farnsworth Fed. B Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK61904 - EPA 5030C (GC)

Calibration Check (EK61904-CCV1)

Prepared: 11/19/06 Analyzed: 11/20/06

Benzene	50.3		ug/kg	50.0		101	80-120			
Toluene	45.5		"	50.0		91.0	80-120			
Ethylbenzene	40.1		"	50.0		80.2	80-120			
Xylene (p/m)	80.2		"	100		80.2	80-120			
Xylene (o)	41.5		"	50.0		83.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.6		"	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			

Matrix Spike (EK61904-MS1)

Source: 6K16010-04

Prepared: 11/19/06 Analyzed: 11/20/06

Benzene	1.39	0.0250	mg/kg dry	1.28	ND	109	80-120			
Toluene	1.33	0.0250	"	1.28	ND	104	80-120			
Ethylbenzene	1.44	0.0250	"	1.28	ND	112	80-120			
Xylene (p/m)	2.41	0.0250	"	2.57	ND	93.8	80-120			
Xylene (o)	1.18	0.0250	"	1.28	ND	92.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.7		ug/kg	40.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	80-120			

Matrix Spike Dup (EK61904-MSD1)

Source: 6K16010-04

Prepared: 11/19/06 Analyzed: 11/20/06

Benzene	1.13	0.00100	mg/kg dry	1.28	ND	88.3	80-120	21.0	20	R2
Toluene	1.09	0.00100	"	1.28	ND	85.2	80-120	19.9	20	
Ethylbenzene	1.11	0.00100	"	1.28	ND	86.7	80-120	25.5	20	R2
Xylene (p/m)	2.06	0.00100	"	2.57	ND	80.2	80-120	15.6	20	
Xylene (o)	1.05	0.00100	"	1.28	ND	82.0	80-120	11.7	20	
Surrogate: a,a,a-Trifluorotoluene	37.2		ug/kg	40.0		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	44.5		"	40.0		111	80-120			

Highlander Environmental Corp 1910 N. Big Spring St Midland TX, 79705	Project SWR/ Farnsworth Fed. B Tank Battery Project Number 2724 Project Manager. Ike Tavarez	Fax (432) 682-3946
-----------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------	--------------------

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK61603 - General Preparation (Prep)

Blank (EK61603-BLK1) Prepared & Analyzed 11/15/06

% Solids	100		%							
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Duplicate (EK61603-DUP1) Source: 6K15007-02 Prepared & Analyzed 11/15/06

% Solids	89.0		%		89.5			0.560	20	
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Duplicate (EK61603-DUP2) Source: 6K15013-12 Prepared & Analyzed 11/15/06

% Solids	91.4		%		90.4			1.10	20	
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Highlander Environmental Corp
1910 N. Big Spring St
Midland TX, 79705

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager Ike Tavarez

Fax (432) 682-3946

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect

R2 The RPD exceeded the acceptance limit.

J Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland K Tuttle

Date: 11/21/2006

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

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

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

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

Environmental Lab of Texas

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

Page 15 of 15

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

CLIENT NAME:

Southwest Royalties Inc.

SITE MANAGER:

Ike Tavares

PROJECT NO.:

2724

PROJECT NAME:

SMB-Farmsworth Federal Tank Battery
Lea County, New Mexico

NUMBER OF CONTAINERS

1

FILTERED (Y/N)

1

PRESERVATIVE METHOD

HCL
HNO3
ICE
NONE

LAB I.D. NUMBER

2013

DATE

11/10/06

TIME

MATRIX

S

COMP.

S

GRAB

X

SAMPLE IDENTIFICATION

XAH-1 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-2 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-3 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-4 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-5 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-6 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-7 (0-1.0') BEB

SAMPLE IDENTIFICATION

XAH-8 (0-1.0') BEB

SAMPLE IDENTIFICATION

Stockpile #1

SAMPLE IDENTIFICATION

Stockpile #2

ANALYSIS REQUEST

(Circle or Specify Method No.)

PCB's 6050/608	X
MTBE 6020/608	X
TPH 4181 (805 MOD) TX1008	X
PAH 6070	X
HCA Metals Ag As Ba Cd Cr Pb Hg Se	X
TCF Metals Ag As Ba Cd Cr Pb Hg Se	X
TCF Volatiles	X
TCF Semi Volatiles	X
RCI	X
GCMS Vol. 0240/0280/02A	X
GCMS Total Vol. 0270/025	X
PCB's 0080/008	X
PCB's 0080/008	X
Feel. 008/008	X
IOD, TSS, pH, TDS, Chloride	X
Gamma Spec.	X
Alpha Beta (Alt)	X
PLM (Asbestos)	X

SAMPLED BY: (Print & Sign) _____ Date: 11/10/06
RECEIVED BY: (Signature) _____ Date: 11/15/06
TIME: 2:00
RECEIVED BY: (Signature) _____ Date: _____
TIME: _____
RECEIVED BY: (Signature) _____ Date: _____
TIME: _____
RECEIVED BY: (Signature) _____ Date: _____
TIME: _____

SHIPMENT BY: (Circle) AIRBILL # _____
 FEDEX _____
 HAND DELIVERED _____
OTHER: _____

HIGHLANDER CONTACT PERSON: _____
RESULTS BY: _____
FUSE CHARGES AUTHORIZED: Yes _____ No _____

REMARKS: Run (3) BTEX w/ TPH (Alt. 1 -> Alt. 8)
 Run (4) BTEX w/ highest TPH Stockpile #1 -> #8

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.

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

Client: Highlander
 Date/ Time: 11/15/06 2:00
 Lab ID #: WKS0
 Initials: CR

Sample Receipt Checklist

	Yes	No	Client Initials
1 Temperature of container/ cooler?			210 °C
2 Shipping container in good condition?	<u>Yes</u>	No	
3 Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>
4 Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>
5 Chain of Custody present?	<u>Yes</u>	No	
6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
11 Containers supplied by ELOT?	<u>Yes</u>	No	
12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
13 Samples properly preserved?	<u>Yes</u>	No	See Below
14 Sample bottles intact?	<u>Yes</u>	No	
15 Preservations documented on Chain of Custody?	<u>Yes</u>	No	
16 Containers documented on Chain of Custody?	<u>Yes</u>	No	
17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
19 Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>
20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

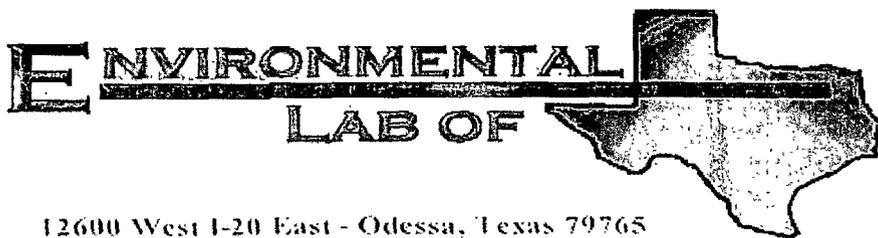
Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: SWR/ Farnsworth Fed. B Tank Battery

Project Number: 2724

Location: Lea Co., NM

Lab Order Number: 7A12023

Report Date: 01/18/07

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

Project SWR/ Farnsworth Fed B Tank Battery
Project Number. 2724
Project Manager Ike Tavarez

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile #2	7A12023-01	Soil	01/11/07 00 00	01-12-2007 16 30

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #2 (7A12023-01) Soil									
Carbon Ranges C6-C12	661	100	mg/kg dry	10	EA71509	01/15/07	01/17/07	EPA 8015M	
Carbon Ranges C12-C28	4620	100	"	"	"	"	"	"	
Carbon Ranges C28-C35	403	100	"	"	"	"	"	"	
Total Hydrocarbons	5680	100	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		10.4 %	70-130	"	"	"	"	"	S-06
<i>Surrogate: 1-Chlorooctadecane</i>		12.6 %	70-130	"	"	"	"	"	S-06

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number 2724
Project Manager Ike Tavarez

Fax: (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile #2 (7A12023-01) Soil									
% Moisture	6.8	0.1	%	1	EA71607	01/15/07	01/16/07	% calculation	

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

Project SWR/ Farnsworth Fed. B Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA71509 - Solvent Extraction (GC)

Blank (EA71509-BLK1)										
					Prepared 01/15/07 Analyzed 01/17/07					
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130			
Surrogate: 1-Chlorooctadecane	48.3		"	50.0		96.6	70-130			

LCS (EA71509-BS1)										
					Prepared: 01/15/07 Analyzed 01/17/07					
Carbon Ranges C6-C12	561	10.0	mg/kg wet	500		112	75-125			
Carbon Ranges C12-C28	473	10.0	"	500		94.6	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1030	10.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	49.5		"	50.0		99.0	70-130			

Calibration Check (EA71509-CCV1)										
					Prepared: 01/15/07 Analyzed 01/17/07					
Carbon Ranges C6-C12	228		mg/kg	250		91.2	80-120			
Carbon Ranges C12-C28	251		"	250		100	80-120			
Total Hydrocarbons	479		"	500		95.8	80-120			
Surrogate: 1-Chlorooctane	51.3		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	47.1		"	50.0		94.2	70-130			

Matrix Spike (EA71509-MS1)										
			Source: 7A12026-04		Prepared 01/15/07 Analyzed 01/17/07					
Carbon Ranges C6-C12	639	10.0	mg/kg dry	525	ND	122	75-125			
Carbon Ranges C12-C28	534	10.0	"	525	ND	102	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbons	1170	10.0	"	1050	ND	111	75-125			
Surrogate: 1-Chlorooctane	62.5		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	62.5		"	50.0		125	70-130			

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

Project: SWR/ Farnsworth Fed. B Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA71509 - Solvent Extraction (GC)

Matrix Spike Dup (EA71509-MSD1)

Source: 7A12026-04

Prepared 01/15/07 Analyzed 01/17/07

Carbon Ranges C6-C12	632	10.0	mg/kg dry	525	ND	120	75-125	1.65	20	
Carbon Ranges C12-C28	509	10.0	"	525	ND	97.0	75-125	5.03	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1140	10.0	"	1050	ND	109	75-125	1.82	20	
Surrogate 1-Chlorooctane	51.1		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	52.1		"	50.0		104	70-130			

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

Project: SWR/ Farnsworth Fed. B Tank Battery
 Project Number: 2724
 Project Manager: Ike Tavarez

Fax (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71607 - General Preparation (Prep)										
Blank (EA71607-BLK1)										
					Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	99.8		%							
Duplicate (EA71607-DUP1)		Source: 7A12022-01			Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	96.4		%		94.6			1.88	20	
Duplicate (EA71607-DUP2)		Source: 7A12022-32			Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	95.2		%		95.1			0.105	20	
Duplicate (EA71607-DUP3)		Source: 7A12024-20			Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	97.7		%		97.8			0.102	20	
Duplicate (EA71607-DUP4)		Source: 7A12027-12			Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	92.4		%		92.0			0.434	20	
Duplicate (EA71607-DUP5)		Source: 7A15002-03			Prepared: 01/15/07	Analyzed: 01/16/07				
% Solids	83.9		%		85.9			2.36	20	

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager: Ike Tavarez

Fax (432) 682-3946

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

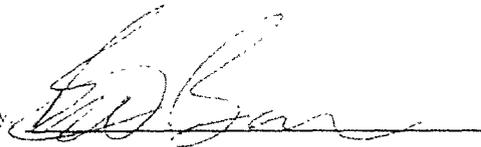
RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By



Date

1/18/07

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

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

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

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

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

CLIENT NAME: Southwest Royalties SITE MANAGER: Ike Tovar

PROJECT NO.: 2724 PROJECT NAME: SWF Farms Worth Federal B Tank Battery
Lea County, NM

LAB I.D. NUMBER: TA13023 DATE: 11/11/07 MATRIX: SX TIME: Stockpile #2
GRAB COMP: 1 SAMPLE IDENTIFICATION: 1

PRESERVATIVE METHOD:
HCL
HMOS
ICE
NONE

NUMBER OF CONTAINERS: 1 FILTERED (Y/N): X

PAGE: / OF: /

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input type="checkbox"/>	BTX 0020/002	<input type="checkbox"/>
<input type="checkbox"/>	MTBE 0020/002	<input type="checkbox"/>
<input checked="" type="checkbox"/>	TPH 410.1 (0015 MOD) TK005	<input type="checkbox"/>
<input type="checkbox"/>	PAH 0270	<input type="checkbox"/>
<input type="checkbox"/>	RCA Metals Ag As Ba Cd Cr Pb Hg Se	<input type="checkbox"/>
<input type="checkbox"/>	TCP Metals Ag As Ba Cd Cr Pb Hg Se	<input type="checkbox"/>
<input type="checkbox"/>	TCP Volatiles	<input type="checkbox"/>
<input type="checkbox"/>	TCP Scent Volatiles	<input type="checkbox"/>
<input type="checkbox"/>	RCT	<input type="checkbox"/>
<input type="checkbox"/>	GCMS Vol. 8240/8280/824	<input type="checkbox"/>
<input type="checkbox"/>	GCMS Semi. Vol. 8270/825	<input type="checkbox"/>
<input type="checkbox"/>	PCB's 0080/008	<input type="checkbox"/>
<input type="checkbox"/>	PCB's 008/008	<input type="checkbox"/>
<input type="checkbox"/>	HOB, TSS, pH, TDS, Chloride	<input type="checkbox"/>
<input type="checkbox"/>	Gamma Spec.	<input type="checkbox"/>
<input type="checkbox"/>	Alpha Beta (Air)	<input type="checkbox"/>
<input type="checkbox"/>	PIM (Asbestos)	<input type="checkbox"/>

REQUIREMENT BY: (Signature) _____ Date: 11/13/07 Time: _____
 RECEIVED BY: (Signature) _____ Date: 11/13/07 Time: _____
 RELINQUISHED BY: (Signature) _____ Date: _____ Time: _____
 RECEIVED BY: (Signature) _____ Date: 11/21/07 Time: 11:30

RECEIVING LABORATORY: ELT STATE: TX ZIP: _____
 ADDRESS: _____
 CONTACT: _____ PHONE: _____

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

SAMPLE CONDITION WHEN RECEIVED: 1.5 mL label

REMARKS: _____

SAMPLED BY: (Print & Sign) _____ Date: _____ Time: _____
 SAMPLE SHIPPED BY: (Circle) FEDEX UPS AIRBILL # _____
 (HAND DELIVERED) OTHER: _____
 HIGHLANDER CONTACT PERSON: Ike Tovar
 Rush Charges Authorized: Yes No

PLEASE FILL OUT ALL COPIES - LABORATORY RETAINS YELLOW COPY - RETURN ORIGINAL COPY TO HIGHLANDER ENVIRONMENTAL CORP. - PROJECT MANAGER RETAINS PINK COPY - ACCOUNTING RETAINS GOLD COPY.

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

Client: Highlander Environmental
 Date/ Time: 01-12-07 @ 1630
 Lab ID #: 7A 12023
 Initials: JMM

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<u>Yes</u>	No	15	° C
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

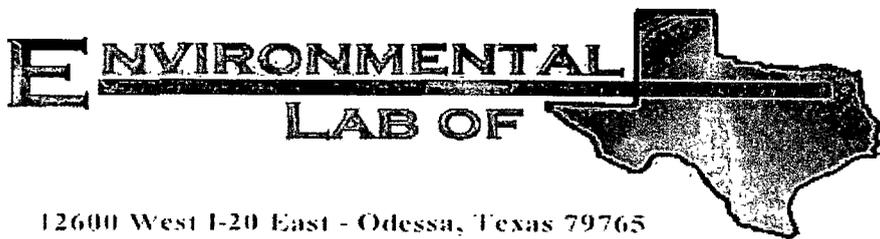
Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

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Analytical Report

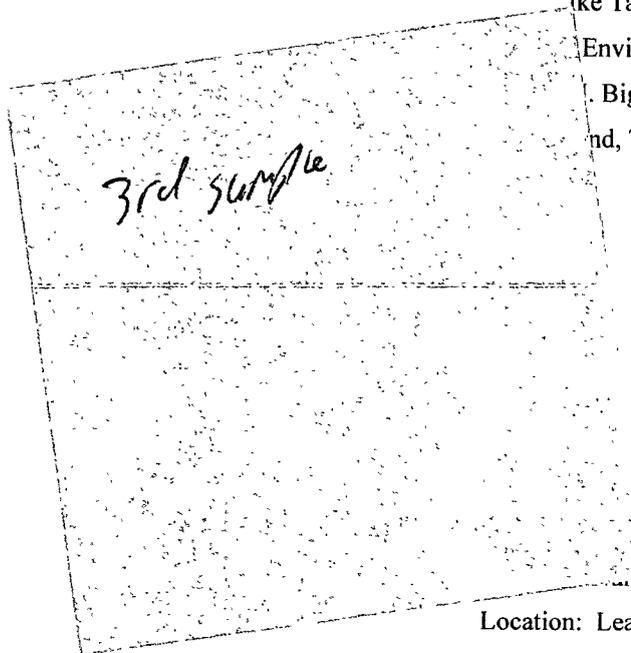
Prepared for:

Ike Tavaréz

Environmental Corp.

Big Spring St.

Odessa, TX 79705



3rd sample

Fed. B #5 Tank Battery

Number: 2724

Location: Lea County, NM

Lab Order Number: 7C19009

Report Date: 03/22/07

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

Project SWR/ Farnsworth Fed B #5 Tank Battery
Project Number 2724
Project Manager Ike Tavarez

Fax (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 0-1 0'	7C19009-01	Soil	03/14/07 00 00	03-19-2007 10:45
AH-2 0-1 0'	7C19009-02	Soil	03/14/07 00 00	03-19-2007 10:45
AH-3 0-1 0'	7C19009-03	Soil	03/14/07 00 00	03-19-2007 10:45

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

Project SWR/ Farnsworth Fed B #5 Tank Battery
 Project Number: 2724
 Project Manager Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1.0' (7C19009-01) Soil									
Carbon Ranges C6-C12	19.9	10.0	mg/kg dry	1	EC72004	03/20/07	03/20/07	EPA 8015M	
Carbon Ranges C12-C28	372	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	64.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	456	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		131 %	70-130		"	"	"	"	S-04
Surrogate: 1-Chlorooctadecane		135 %	70-130		"	"	"	"	S-04
AH-2 0-1.0' (7C19009-02) Soil									
Carbon Ranges C6-C12	83.8	10.0	mg/kg dry	1	EC72004	03/20/07	03/20/07	EPA 8015M	
Carbon Ranges C12-C28	570	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	63.4	10.0	"	"	"	"	"	"	
Total Hydrocarbons	717	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		120 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-130		"	"	"	"	
AH-3 0-1.0' (7C19009-03) Soil									
Carbon Ranges C6-C12	1040	50.0	mg/kg dry	5	EC72004	03/20/07	03/20/07	EPA 8015M	
Carbon Ranges C12-C28	3980	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	477	50.0	"	"	"	"	"	"	
Total Hydrocarbons	5500	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		21.8 %	70-130		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		24.8 %	70-130		"	"	"	"	S-06

Environmental Lab of Texas

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

Project: SWR/ Farnsworth Fed B #5 Tank Battery
Project Number 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AH-1 0-1.0' (7C19009-01) Soil									
% Moisture	ND	0.1	%	1	EC72006	03/19/07	03/19/07	% calculation	
AH-2 0-1.0' (7C19009-02) Soil									
% Moisture	5.9	0.1	%	1	EC72006	03/19/07	03/19/07	% calculation	
AH-3 0-1.0' (7C19009-03) Soil									
% Moisture	17.2	0.1	%	1	EC72006	03/19/07	03/19/07	% calculation	

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Page 3 of 6

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

Project SWR/ Farnsworth Fed. B #5 Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC72004 - Solvent Extraction (GC)

Blank (EC72004-BLK1)

Prepared & Analyzed 03/20/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate 1-Chlorooctane	50.8		mg/kg	50.0		102	70-130			
Surrogate 1-Chlorooctadecane	46.7		"	50.0		93.4	70-130			

LCS (EC72004-BS1)

Prepared & Analyzed 03/20/07

Carbon Ranges C6-C12	617	10.0	mg/kg wet	500		123	75-125			
Carbon Ranges C12-C28	477	10.0	"	500		95.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1090	10.0	"	1000		109	75-125			
Surrogate 1-Chlorooctane	61.5		mg/kg	50.0		123	70-130			
Surrogate 1-Chlorooctadecane	52.3		"	50.0		105	70-130			

LCS Dup (EC72004-BSD1)

Prepared 03/20/07 Analyzed 03/21/07

Carbon Ranges C6-C12	539	10.0	mg/kg wet	500		108	75-125	13.0	20	
Carbon Ranges C12-C28	476	10.0	"	500		95.2	75-125	0.210	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125		20	
Total Hydrocarbons	1010	10.0	"	1000		101	75-125	7.62	20	
Surrogate 1-Chlorooctane	52.3		mg/kg	50.0		105	70-130			
Surrogate 1-Chlorooctadecane	38.5		"	50.0		77.0	70-130			

Calibration Check (EC72004-CCV1)

Prepared & Analyzed 03/20/07

Carbon Ranges C6-C12	243		mg/kg	250		97.2	80-120			
Carbon Ranges C12-C28	238		"	250		95.2	80-120			
Total Hydrocarbons	481		"	500		96.2	80-120			
Surrogate 1-Chlorooctane	64.8		"	50.0		130	70-130			
Surrogate 1-Chlorooctadecane	63.1		"	50.0		126	70-130			

Environmental Lab of Texas

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

Project SWR/ Farnsworth Fed. B #5 Tank Battery
 Project Number 2724
 Project Manager Ike Tavarez

Fax: (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC72006 - General Preparation (Prep)

Blank (EC72006-BLK1) Prepared & Analyzed: 03/19/07

% Solids	100		%							
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Duplicate (EC72006-DUP1) Prepared & Analyzed: 03/19/07

Source: 7C19003-01

% Solids	89.1		%		89.5			0.448	20	
----------	------	--	---	--	------	--	--	-------	----	--

Duplicate (EC72006-DUP2) Prepared & Analyzed: 03/19/07

Source: 7C19009-03

% Solids	82.9		%		82.8			0.121	20	
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Environmental Lab of Texas

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

Project: SWR/ Farnsworth Fed. B #5 Tank Battery
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:



Date: 3/22/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Page 6 of 6

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Highlander
 Date/ Time: 3/14/07 10:45
 Lab ID #: 7019009
 Initials: OK

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	2.5 °C	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by ELOT?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

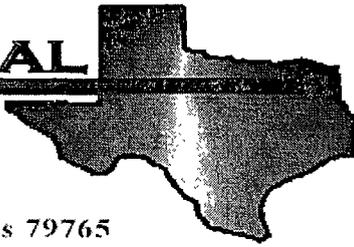
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken _____

- Check all that Apply.
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Ike Tavarez

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: SWR/ Farnsworth Fed. B Tank Battery

Project Number: 2724

Location: Lea County, NM

Lab Order Number: 7E18006

Report Date: 05/23/07

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile # 2	7E18006-01	Soil	05/15/07 00:00	05-18-2007 15:18

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile # 2 (7E18006-01) Soil									
Carbon Ranges C6-C12	725	50.0	mg/kg dry	5	EE71811	05/18/07	05/21/07	EPA 8015M	
Carbon Ranges C12-C28	4690	50.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	465	50.0	"	"	"	"	"	"	
Total Hydrocarbons	5880	50.0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		15.5 %	70-130		"	"	"	"	S-06
Surrogate 1-Chlorooctadecane		21.6 %	70-130		"	"	"	"	S-06

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager: Ike Tavarez

Fax: (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile # 2 (7E18006-01) Soil									
% Moisture	14.1	0.1	%	1	EE71901	05/18/07	05/19/07	% calculation	

Environmental Lab of Texas
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Page 3 of 7

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

Project: SWR/ Farnsworth Fed. B Tank Battery
 Project Number: 2724
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

**Organics by GC - Quality Control
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE71811 - Solvent Extraction (GC)

Blank (EE71811-BLK1)

Prepared: 05/18/07 Analyzed: 05/21/07

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.2	70-130			
Surrogate: 1-Chlorooctadecane	47.8		"	50.0		95.6	70-130			

LCS (EE71811-BS1)

Prepared: 05/18/07 Analyzed: 05/21/07

Carbon Ranges C6-C12	569	10.0	mg/kg wet	500		114	75-125			
Carbon Ranges C12-C28	457	10.0	"	500		91.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1030	10.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	58.5		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	52.2		"	50.0		104	70-130			

Calibration Check (EE71811-CCV1)

Prepared: 05/18/07 Analyzed: 05/22/07

Carbon Ranges C6-C12	223		mg/kg wet	250		89.2	80-120			
Carbon Ranges C12-C28	227		"	250		90.8	80-120			
Total Hydrocarbons	450		"	500		90.0	80-120			
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	59.6		"	50.0		119	70-130			

Matrix Spike (EE71811-MS1)

Source: 7E18004-03

Prepared: 05/18/07 Analyzed: 05/22/07

Carbon Ranges C6-C12	627	10.0	mg/kg dry	562	ND	112	75-125			
Carbon Ranges C12-C28	495	10.0	"	562	ND	88.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0 00	ND		75-125			
Total Hydrocarbons	1120	10.0	"	1120	ND	100	75-125			
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		98.0	70-130			
Surrogate: 1-Chlorooctadecane	49.9		"	50 0		99.8	70-130			

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

Project: SWR/ Farnsworth Fed. B Tank Battery
 Project Number: 2724
 Project Manager: Ike Tavarez

Fax: (432) 682-3946

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EE71811 - Solvent Extraction (GC)

Matrix Spike Dup (EE71811-MSD1)	Source: 7E18004-03			Prepared: 05/18/07		Analyzed: 05/22/07				
Carbon Ranges C6-C12	572	10.0	mg/kg dry	562	ND	102	75-125	9.35	20	
Carbon Ranges C12-C28	452	10.0	"	562	ND	80.4	75-125	9.14	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbons	1020	10.0	"	1120	ND	91.1	75-125	9.31	20	
Surrogate 1-Chlorooctane	44.0		mg/kg	50.0		88.0	70-130			
Surrogate 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130			

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

Project: SWR/ Farnsworth Fed. B Tank Battery
Project Number: 2724
Project Manager: Ike Tavaréz

Fax: (432) 682-3946

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EE71901 - General Preparation (Prep)

Blank (EE71901-BLK1)

Prepared & Analyzed: 05/19/07

% Solids 100 %

Duplicate (EE71901-DUP1)

Source: 7E17009-01

Prepared & Analyzed: 05/19/07

% Solids 99.2 % 99.2 0.00 20

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By: _____

Date: _____

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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

Client: Highlander Env.
 Date/ Time: 5-18-07 3:18
 Lab ID #: 7E18006
 Initials: al

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	7.0 °C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes	No	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#11	Containers supplied by ELOT?	Yes	<input checked="" type="checkbox"/> No	
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No	See Below
#13	Samples properly preserved?	Yes	<input checked="" type="checkbox"/> No	See Below
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No	See Below
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Variance Documentation

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

Regarding: #13 Not cad enough

Corrective Action Taken:

- Check all that Apply:
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Analytical Report 287212

for

Highlander Environmental Corp.

Project Manager: Ike Tavarez

SWR / Farnsworth Fed. B # 5

2724

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

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NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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13-AUG-07

Project Manager: Ike Tavarez
Highlander Environmental Corp.
1910 N. Big Spring Street
Midland, TX 79705

Reference: XENCO Report No: **287212**
SWR / Farnsworth Fed. B # 5
Project Address: Lea Co., NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287212. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287212 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 287212

Highlander Environmental Corp., Midland, TX

Project Name: SWR / Farnsworth Fed. B # 5



Project Id: 2724

Contact: Ike Tavarez

Project Location: Lea Co , NM

Date Received in Lab: Fri Aug-03-07 09 11 am

Report Date: 13-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	287212-001				
	<i>Field Id:</i>	AH-3 (0-1 0')				
	<i>Depth:</i>					
	<i>Matrix:</i>	SOIL				
	<i>Sampled:</i>	Aug-01-07 00 00				
Percent Moisture	<i>Extracted:</i>					
	<i>Analyzed:</i>	Aug-08-07 09 28				
	<i>Units/RL:</i>	% RL				
Percent Moisture		14.9 1 00				
TPH by SW8015 Mod	<i>Extracted:</i>	Aug-06-07 13 43				
	<i>Analyzed:</i>	Aug-08-07 12 53				
	<i>Units/RL:</i>	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		82 3 50 3				
C12-C28 Diesel Range Hydrocarbons		1670 50 3				
C28-C35 Oil Range Hydrocarbons		1050 50 3				
Total TPH		2802 3				

This analytical report and the entire data package it represents has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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5757 NW 158th St, Miami Lakes, FL 33014

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: SWR / Farnsworth Fed. B # 5

Work Order #: 287212

Project ID: 2724

Lab Batch #: 701919

Sample: 287085-006 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	62.3	50.0	125	70-135	
1-Chlorooctane	69.5	50.0	139	70-135	*

Lab Batch #: 701919

Sample: 287085-006 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	64.5	50.0	129	70-135	
1-Chlorooctane	64.5	50.0	129	70-135	

Lab Batch #: 701919

Sample: 287212-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	59.1	50.3	117	70-135	
1-Chlorooctane	54.4	50.3	108	70-135	

Lab Batch #: 701919

Sample: 497953-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	53.2	50.0	106	70-135	
1-Chlorooctane	58.0	50.0	116	70-135	

Lab Batch #: 701919

Sample: 497953-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	54.5	50.0	109	70-135	
1-Chlorooctane	51.9	50.0	104	70-135	

** Surrogates outside limits, data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: SWR / Farnsworth Fed. B # 5

Work Order #: 287212

Project ID:

2724

Lab Batch #: 701919

Sample: 497953-1-BKS

Matrix: Solid

Date Analyzed: 08/08/2007

Date Prepared: 08/06/2007

Analyst: CELKEE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	568	114	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	484	97	70-135	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries



Project Name: SWR / Farnsworth Fed. B # 5

Work Order #: 287212

Project ID: 2724

Lab Batch ID: 701919

QC- Sample ID: 287085-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/08/2007

Date Prepared: 08/06/2007

Analyst: CELKEE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	724	850	117	724	869	120	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	48.3	724	696	89	724	713	92	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: SWR / Farnsworth Fed. B # 5

Work Order #: 287212

Lab Batch #: 702046

Project ID: 2724

Date Analyzed: 08/08/2007

Date Prepared: 08/08/2007

Analyst: IRO

QC- Sample ID: 287443-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.95	5.83	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes

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

Client Highlander
Date/ Time 8 3 07 9 11
Lab ID # 287212
Initials al

Sample Receipt Checklist

			Client Initials
#1 Temperature of container/ cooler?	Yes	No	J.C °C
#2 Shipping container in good condition?	Yes	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5 Chain of Custody present?	Yes	No	
#6 Sample instructions complete of Chain of Custody?	Yes	No	
#7 Chain of Custody signed when relinquished/ received?	Yes	No	
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9 Container label(s) legible and intact?	Yes	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11 Containers supplied by ELOT?	Yes	No	
#12 Samples in proper container/ bottle?	Yes	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	Yes	No	
#15 Preservations documented on Chain of Custody?	Yes	No	
#16 Containers documented on Chain of Custody?	Yes	No	
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

Contact _____ Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken _____

- Check all that Apply
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

Analytical Report 287215

for

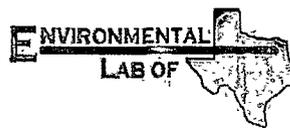
Highlander Environmental Corp.

Project Manager: Ike Tavarez

SWR / Farnsworth Fed. B Tank Battery

2724

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

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NELAC certification numbers:

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13-AUG-07

Project Manager: **Ike Tavarez**
Highlander Environmental Corp.
1910 N. Big Spring Street
Midland, TX 79705

Reference: XENCO Report No: **287215**
SWR / Farnsworth Fed. B Tank Battery
Project Address: Lea Co., NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287215. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287215 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 287215

Highlander Environmental Corp., Midland, TX

Project Name: SWR / Farnsworth Fed. B Tank Battery



Project Id: 2724

Contact: Ike Tavarez

Project Location: Lea Co., NM

Date Received in Lab: Fri Aug-03-07 09:11 am

Report Date: 13-AUG-07

Project Manager: Brent Barron, II

Analysis Requested	Lab Id: 287215-001 Field Id: Stockpile # 2 Depth: Matrix: SOIL Sampled: Aug-01-07 00 00					
Percent Moisture	Extracted: Analyzed: Aug-08-07 09 27 Units/RL: % RL					
Percent Moisture	12.0 1.00					
TPH by SW8015 Mod	Extracted: Aug-06-07 13.43 Analyzed: Aug-08-07 13 19 Units/RL: mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons	332 50.1					
C12-C28 Diesel Range Hydrocarbons	3760 50.1					
C28-C35 Oil Range Hydrocarbons	1530 50.1					
Total TPH	5622					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end user of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: SWR / Farnsworth Fed. B Tank Battery

Work Order #: 287215

Project ID: 2724

Lab Batch #: 701919

Sample: 287085-006 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	62.3	50.0	125	70-135	
1-Chlorooctane	69.5	50.0	139	70-135	*

Lab Batch #: 701919

Sample: 287085-006 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	64.5	50.0	129	70-135	
1-Chlorooctane	64.5	50.0	129	70-135	

Lab Batch #: 701919

Sample: 287215-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	59.2	50.1	118	70-135	
1-Chlorooctane	55.7	50.1	111	70-135	

Lab Batch #: 701919

Sample: 497953-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	53.2	50.0	106	70-135	
1-Chlorooctane	58.0	50.0	116	70-135	

Lab Batch #: 701919

Sample: 497953-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	54.5	50.0	109	70-135	
1-Chlorooctane	51.9	50.0	104	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: SWR / Farnsworth Fed. B Tank Battery

Work Order #: 287215

Project ID:

2724

Lab Batch #: 701919

Sample: 497953-1-BKS

Matrix: Solid

Date Analyzed: 08/08/2007

Date Prepared: 08/06/2007

Analyst: CELKEE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
C6-C12 Gasoline Range Hydrocarbons	ND	500	568	114	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	500	484	97	70-135	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries

Project Name: SWR / Farnsworth Fed. B Tank Battery



Work Order #: 287215

Project ID: 2724

Lab Batch ID: 701919

QC- Sample ID: 287085-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/08/2007

Date Prepared: 08/06/2007

Analyst: CELKEE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	724	850	117	724	869	120	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	48.3	724	696	89	724	713	92	3	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative. EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: SWR / Farnsworth Fed. B Tank Battery

Work Order #: 287215

Lab Batch #: 702046

Project ID: 2724

Date Analyzed: 08/08/2007

Date Prepared: 08/08/2007

Analyst: IRO

QC- Sample ID: 287443-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	5.95	5.83	2	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes

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

Client Highlander
 Date/ Time 8 3 07 9:11
 Lab ID # 247215
 Initials al

Sample Receipt Checklist

			Client Initials		
#1	Temperature of container/ cooler?	<u>Yes</u>	No	1.0 °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact _____ Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken. _____

- Check all that Apply
- See attached e-mail/ fax
 - Client understands and would like to proceed with analysis
 - Cooling process had begun shortly after sampling event

APPENDIX C

District I XXX
 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 October 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

X Initial Report Final Report

Name of Company	SOUTHWEST ROYALTIES, INC.	Contact	DAWN M. HOWARD
Address	6 DESTA DR, ST 2100, MIDLAND, TX 79705	Telephone No.	432/688-3267
Facility Name	FARNSWORTH FEDERAL B #5	Facility Type	OIL WELL

Surface Owner	VARIOUS -SEE ATTACHED	Mineral Owner		Lease No.	LC030180B
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	26S	37E	1980	S	660	W	LEA

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	OIL	Volume of Release	Unknown	Volume Recovered	125 (well)+145 (btry)
Source of Release	Well blow out at well head, tanks overflowed & small leaks in tanks	Date and Hour of Occurrence	8/23/06 11:30 A.M. CT	Date and Hour of Discovery	8/23/06 11:30 A.M. CT
Was Immediate Notice Given?	X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	PAT'S VOICEMAIL 505/390-0720 EXT 109		
By Whom?	DAWN HOWARD	Date and Hour	8/23/06 11:30 A.M. CT		
Was a Watercourse Reached?	<input type="checkbox"/> Yes x No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
 The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow off the well at the wellhead. The tanks were also full and overflowed and were found to have small leaks. There were actually two areas of contamination being 1) approximately 2 to 4 acres of over spay from the wellhead and 2) the battery -on the pad, overdrive area and extending into the pasture.

Describe Area Affected and Cleanup Action Taken.*
 The well was brought under control by choke installation. All free standing oil was vacuumed up (125 BF at the well site and 145 BF at the battery). All fluid in tanks drained. Highlander Environmental was contacted and is currently on location assessing damages, taking samples and will be providing their recommended remedial actions. Clean up will strictly adhere to NMOCD Guidelines for Remediation of Leaks, Spills and Releases.

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:		OIL CONSERVATION DIVISION	
Printed Name: Dawn M. Howard		Approved by District Supervisor:	
Title: Operations Assistant	Approval Date:	Expiration Date:	
E-mail Address: dhoward@claytonwilliams.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/24/06	Phone: 432/688-3267		

* Attach Additional Sheets If Necessary

District I
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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 October 10, 2003

Submit 3 Copies to appropriate District Office in accordance with Rule 116 on back side of form

RECEIVED
FEB 12 2008
HOBBS OOD

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Southwest Royalties, Inc.	Contact Dawn Howard
Address 6 Desta Drive, Suite 2100, Midland, TX 79705	Telephone No. 432-688-3267
Facility Name Farnsworth Federal B #5 Well and Tank Battery	Facility Type Tank Battery & Well

Surface Owner Various	Mineral Owner	Lease No. LC030180B
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LOCATION OF RELEASE

API 3002511961

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	7	26S	37E	1980	S	660	W	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil	Volume of Release Unknown	Volume Recovered 125 (well)+145 (Bty)
Source of Release Well Blowout at wellhead, tanks overflowed & small leaks in tanks	Date and Hour of Occurrence 8/23/06 11:30 am, CT	Date and Hour of Discovery 8/23/06 11:30 am CT
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Pat's voicemail 505-390-0720, Ext. 109	
By Whom? Dawn Howard	Date and Hour 8/23/06	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

The well does not produce daily, but builds up enough pressure to flow up the backside. A pocket of gas or an air bubble may have caused the connection to blow off the well at the wellhead. The tanks were also full and overflowed and were found to have small leaks. There were actually two areas of contamination being 1) approximately 2 to 4 acres of overspray from the wellhead and 2) the battery - on the pad, drive area and extending into the pasture.

Describe Area Affected and Cleanup Action Taken.*

The well was brought under control by choke installation. A vacuum truck picked up fluids. Highlander Environmental Corp. evaluated site. Over spray areas were treated, areas around the well were tilled and areas at the tank battery where TPH exceeded the RRAL were excavated.

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

Signature: <i>Dawn M. Howard</i>	OIL CONSERVATION DIVISION <i>[Signature]</i>	
Printed Name: Dawn M. Howard	Approved by District Supervisor ENVIRONMENTAL ENGINEER	
Title: Operations Assistant	Approval Date: 7.12.08	Expiration Date: —
E-mail Address: dhoward@claytonwilliams.com	Conditions of Approval:	
Date: 1/29/08 Phone: 432/688-3267	Attached <input type="checkbox"/> IRP# 1007	

* Attach Additional Sheets If Necessary