



Highlander Environmental Corp.

Midland, Texas

November 26, 2007

Mr. Mike Bratcher
Environmental Bureau
Oil Conservation Division- District 2
1301 W. Grand Avenue
Artesia, New Mexico 88210

RE: Work Plan for Capping and Site Closure for the Pit Located at the North Hackberry Yates Unit No. 108 Pit, Unit Letter L, Section 24, Township 19 South, Range 30 East, Eddy County, New Mexico, Operated by Southwest Royalties, Inc.

Dear Mr. Bratcher:

Southwest Royalties, Inc. (SWR) retained Highlander Environmental Corp. (Highlander) of Midland, Texas to assist in closure of the above mentioned pit. The closure was to be performed in accordance with an Agreed Compliance Order (ACO).

Background & Previous Work

Highlander submitted a "Workplan for the Site Closure or the Pit Located at the North Hackberry Yates Unit No. 108 Pit, Unit Letter L, Section 24, Township 19 South, Range 30 East, Eddy County, New Mexico, Operated by Southwest Royalties, Inc.", dated October 12, 2007 to the NMOCD. The workplan called for removal of the fluids, sludge and liner, visual inspection of the underlying soils and for collection of samples in a five-spot pattern beneath the liner. The site location is shown on Figures 1 and 2.

Regulatory

A review of the New Mexico State Engineer's Office database and the USGS database did not show any wells in Section 24, Township 19 South, Range 30 East. The closest wells listed in the New Mexico State Engineer's database are located in Section 36, T-19-S, R-31-E and Sections 30 and 31, T-19-S, R-30-E, with reported depths to water of 130', 90' and 115', respectively.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined

to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene and xylene). Based on the regional groundwater data, the proposed RRAL for TPH was 1,000 mg/kg.

Pit Closure and Sampling Activities

The pit was de-watered and allowed time to dry. In late October, the sludge and liner were removed and taken to CRI for disposal. On November 1, 2007, Highlander personnel were onsite to collect samples in a five spot pattern of test trenches. A backhoe was utilized to collect samples in 2' intervals starting at 2' below the pit bottom down to 10' below the pit bottom. Soil samples were analyzed for chloride by EPA method SM4500-Cl B. The five 2' samples collected below the pit bottom were analyzed for Total Petroleum Hydrocarbon (TPH) by method modified 8015 DRO/GRO. Based upon the results of the TPH analysis, no benzene, toluene, ethylbenzene, and xylene (BTEX) samples were deemed necessary. The results of the sampling are summarized in Table 1. Sample locations are shown on Figure 4.

Referring to Table 1, TPH concentrations were at or below reporting limits and as such, were well below the RRAL. The samples from the northeast, southeast and southwest test trenches showed significant decline in chloride concentrations to at or near 250 mg/kg. The samples from the center trench, while showing significant decline, was still well above 250 mg/kg. Chloride impact was found throughout the northwest sample trench.

Based upon the initial sampling, one soil boring was advanced to a depth of approximately 40' below the pit bottom, between the center and northwest corner of the pit. Samples were collected at 5' intervals and analyzed for chloride concentration. The soil boring was halted at 45' below the pit bottom due to dampness of the samples at that depth. The results of the sampling are summarized in Table 1. Referring to Table 1, the chloride concentrations declined with depth, however, the concentrations were still above 250 mg/kg.

Pit Closure

Highlander proposes the installation of either a one foot compacted clay barrier or a 40 mil impervious, synthetic liner to encapsulate the impacted subsurface soil. The cap area is shown on Figure 4. The pit area will be excavated out approximately 5' in all directions of the current excavation to provide adequate coverage. The soils will be excavated to a depth of 4.0' below ground surface. If a liner is utilized, it will be properly bedded to ensure no ruptures from underlying rock. If clay is used, a copy of the sieve analysis/permeability data is included in Appendix B. Upon completion of the liner/barrier placement, the soils removed from the expansion of the pit area will be evaluated for use as backfill to bring the site back to grade.



Additional Investigation

When capping activities have been concluded, one monitor well will be installed at the perimeter of the pit area to evaluate groundwater conditions.

Should you have any questions, or require any additional information, please contact me at (432) 682-4559. Thank you for your attention to this matter.

Highlander Environmental Corp.



Timothy M. Reed, P.G.
Vice President

cc: Daniel Sanchez- NMOCD, Santa Fe
Sonny Swazo – NMOCD, Santa Fe
Matt Swierc – Southwest Royalties, Inc.



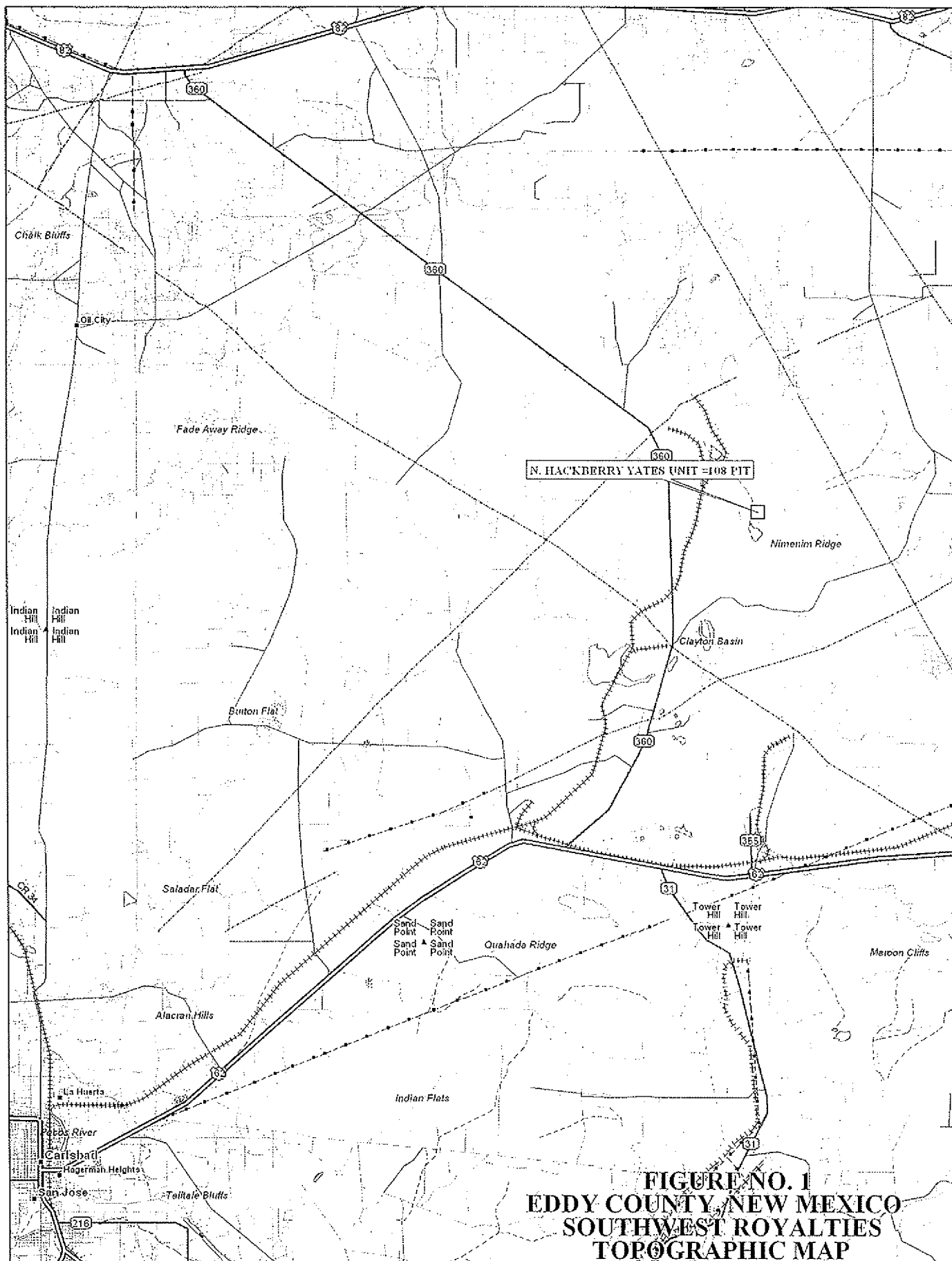
Southwest Royalties

[illegible]

Southwest Royalties
North Hackberry Unit Tank Battery
Eddy County, NM

Sample ID	Date Sampled	Depth (ft)	TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
			DRO	GRO	Total					
BH-1	11/15/2007	(25-26)	-	-	-	-	-	-	-	2,900
BH-1	11/15/2007	(30-31)	-	-	-	-	-	-	-	1,300
BH-1	11/15/2007	(35-36)	-	-	-	-	-	-	-	2,060
BH-1	11/15/2007	(40-41)	-	-	-	-	-	-	-	1,360

(-) Not Analyzed



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Scale 1 : 200,000

1" = 3.16 mi

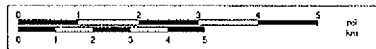
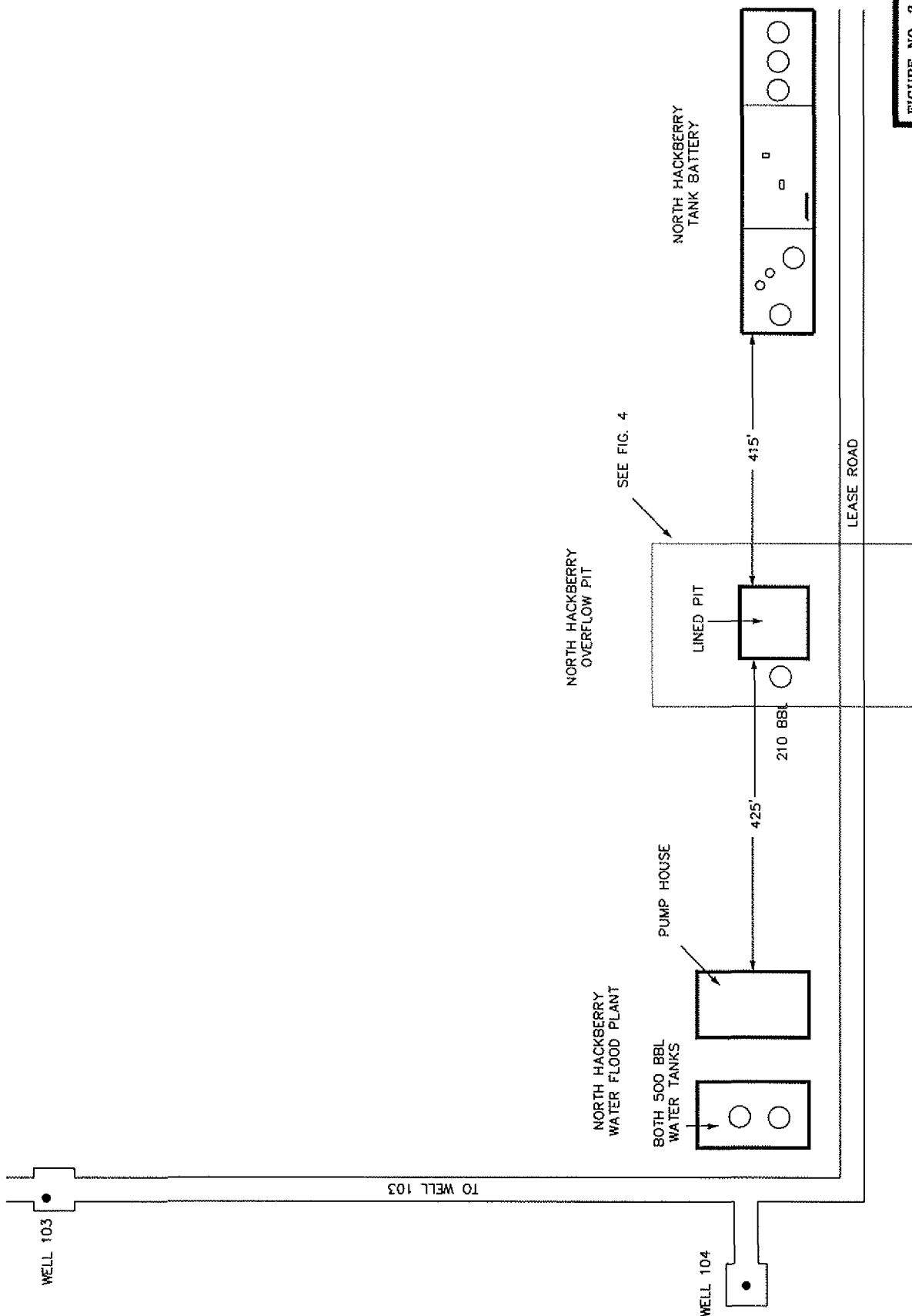




Diagram showing a vertical line segment labeled TN, a horizontal line segment labeled MN, and an angle of 9.0° between them.

NORTH



SEE FIG. 4

FIGURE NO. 3

EDDY COUNTY, NEW MEXICO

SOUTHWEST ROYALTIES
NORTH HACKBERRY YATES UNIT TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

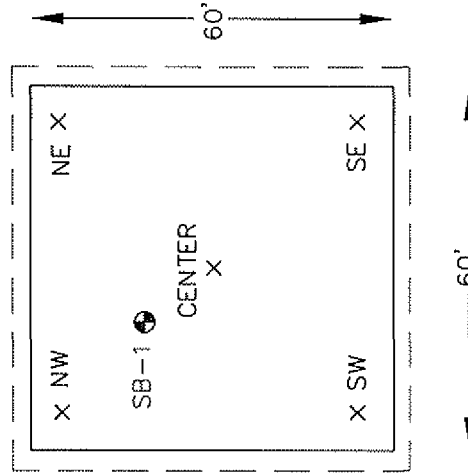
DATE: 4/23/07
OWN. BY: RC
FILE: C:\E-MST\2072
Scale: 1"=100'

NOT TO SCALE

NORTH



PROPOSED LINER/BARRIER



LEASE RD.

FIGURE NO. 4

EDDY COUNTY, NEW MEXICO

SOUTHWEST ROYALTIES
N. HACKBERRY YATES UNIT #108 TB

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 11/26/07
OWN. BY: RC
FILE: C:\N-WEST\079
N-HACKBERRY

NOT TO SCALE

X BACK HOE TRENCH SAMPLES
SOIL BORING

Summary Report

Tim Reed
Highlander Environmental Services
1910 N. Big Spring Street
Midland, TX, 79705

Report Date: November 6, 2007

Work Order: 7110229



Project Location: Eddy County, NM
Project Name: SWR/North Hackberry Yates Unit TB
Project Number: 2979

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
141711	NE-2	soil	2007-11-01	00:00	2007-11-02
141712	NE-4	soil	2007-11-01	00:00	2007-11-02
141713	NE-6	soil	2007-11-01	00:00	2007-11-02
141714	NE-8	soil	2007-11-01	00:00	2007-11-02
141715	NE-10	soil	2007-11-01	00:00	2007-11-02
141716	NW-2	soil	2007-11-01	00:00	2007-11-02
141717	NW-4	soil	2007-11-01	00:00	2007-11-02
141718	NW-6	soil	2007-11-01	00:00	2007-11-02
141719	NW-8	soil	2007-11-01	00:00	2007-11-02
141720	NW-10	soil	2007-11-01	00:00	2007-11-02
141721	SE-2	soil	2007-11-01	00:00	2007-11-02
141722	SE-4	soil	2007-11-01	00:00	2007-11-02
141723	SE-6	soil	2007-11-01	00:00	2007-11-02
141724	SE-8	soil	2007-11-01	00:00	2007-11-02
141725	SE-10	soil	2007-11-01	00:00	2007-11-02
141726	SW-2	soil	2007-11-01	00:00	2007-11-02
141727	SW-4	soil	2007-11-01	00:00	2007-11-02
141728	SW-6	soil	2007-11-01	00:00	2007-11-02
141729	SW-8	soil	2007-11-01	00:00	2007-11-02
141730	SW-10	soil	2007-11-01	00:00	2007-11-02
141731	Center-2	soil	2007-11-01	00:00	2007-11-02
141732	Center-4	soil	2007-11-01	00:00	2007-11-02
141733	Center-6	soil	2007-11-01	00:00	2007-11-02
141734	Center-8	soil	2007-11-01	00:00	2007-11-02
141735	Center-10	soil	2007-11-01	00:00	2007-11-02

Sample - Field Code	TPH DRO	TPH GRO
	DRO (mg/Kg)	GRO (mg/Kg)
141711 - NE-2	<50.0	1.14
141716 - NW-2	<50.0	<1.00
141721 - SE-2	<50.0	<1.00
141726 - SW-2	<50.0	<1.00
141731 - Center-2	<50.0	<1.00

Sample: 141711 - NE-2

Param	Flag	Result	Units	RL
Chloride		1110	mg/Kg	2.00

Sample: 141712 - NE-4

Param	Flag	Result	Units	RL
Chloride		112	mg/Kg	2.00

Sample: 141713 - NE-6

Param	Flag	Result	Units	RL
Chloride		140	mg/Kg	2.00

Sample: 141714 - NE-8

Param	Flag	Result	Units	RL
Chloride		266	mg/Kg	2.00

Sample: 141715 - NE-10

Param	Flag	Result	Units	RL
Chloride		396	mg/Kg	2.00

Sample: 141716 - NW-2

Param	Flag	Result	Units	RL
Chloride		6880	mg/Kg	2.00

Sample: 141717 - NW-4

Param	Flag	Result	Units	RL
Chloride		5420	mg/Kg	2.00

Sample: 141718 - NW-6

Param	Flag	Result	Units	RL
Chloride		6880	mg/Kg	2.00

Sample: 141719 - NW-8

Param	Flag	Result	Units	RL
Chloride		7030	mg/Kg	2.00

Sample: 141720 - NW-10

Param	Flag	Result	Units	RL
Chloride		4800	mg/Kg	2.00

Sample: 141721 - SE-2

Param	Flag	Result	Units	RL
Chloride		4670	mg/Kg	2.00

Sample: 141722 - SE-4

Param	Flag	Result	Units	RL
Chloride		3320	mg/Kg	2.00

Sample: 141723 - SE-6

Param	Flag	Result	Units	RL
Chloride		2480	mg/Kg	2.00

Sample: 141724 - SE-8

Param	Flag	Result	Units	RL
Chloride		621	mg/Kg	2.00

Sample: 141725 - SE-10

Param	Flag	Result	Units	RL
Chloride		621	mg/Kg	2.00

Sample: 141726 - SW-2

Param	Flag	Result	Units	RL
Chloride		5110	mg/Kg	2.00

Sample: 141727 - SW-4

Param	Flag	Result	Units	RL
Chloride		3970	mg/Kg	2.00

Sample: 141728 - SW-6

Param	Flag	Result	Units	RL
Chloride		3700	mg/Kg	2.00

Sample: 141729 - SW-8

Param	Flag	Result	Units	RL
Chloride		1690	mg/Kg	2.00

Sample: 141730 - SW-10

Param	Flag	Result	Units	RL
Chloride		154	mg/Kg	2.00

Sample: 141731 - Center-2

Param	Flag	Result	Units	RL
Chloride		2150	mg/Kg	2.00

Sample: 141732 - Center-4

Param	Flag	Result	Units	RL
Chloride		3090	mg/Kg	2.00

Sample: 141733 - Center-6

Param	Flag	Result	Units	RL
Chloride		2200	mg/Kg	2.00

Sample: 141734 - Center-8

Param	Flag	Result	Units	RL
Chloride		1410	mg/Kg	2.00

Sample: 141735 - Center-10

Param	Flag	Result	Units	RL
Chloride		1200	mg/Kg	2.00

Summary Report

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

Report Date: November 19, 2007

Work Order: 7111641



Project Location: Tank Battery (Pct Area)
Project Name: SWR/North Hackberry Gates
Project Number: 2979

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
143130	BH-1 (15-16)	soil	2007-11-15	00:00	2007-11-16
143131	BH-1 (20-21)	soil	2007-11-15	00:00	2007-11-16
143132	BH-1 (25-26)	soil	2007-11-15	00:00	2007-11-16
143133	BH-1 (30-31)	soil	2007-11-15	00:00	2007-11-16
143134	BH-1 (35-36)	soil	2007-11-15	00:00	2007-11-16
143135	BH-1 (40-41)	soil	2007-11-15	00:00	2007-11-16

Sample: 143130 - BH-1 (15-16)

Param	Flag	Result	Units	RL
Chloride		3690	mg/Kg	2.00

Sample: 143131 - BH-1 (20-21)

Param	Flag	Result	Units	RL
Chloride		4300	mg/Kg	2.00

Sample: 143132 - BH-1 (25-26)

Param	Flag	Result	Units	RL
Chloride		2900	mg/Kg	2.00

Sample: 143133 - BH-1 (30-31)

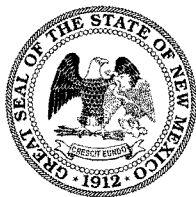
Param	Flag	Result	Units	RL
Chloride		1300	mg/Kg	2.00

Sample: 143134 - BH-1 (35-36)

Param	Flag	Result	Units	RL
Chloride		2060	mg/Kg	2.00

Sample: 143135 - BH-1 (40-41)

Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	2.00



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Mr. Matt Swierc
Southwest Royalties, Inc.
6 Desta Drive, Suite 2100
Midland, TX 79705

December 11, 2007

Hackberry Yates Unit 108 Pit L-24-19s-30e API: 30-015-04622

Dear Mr. Swierc,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan outlining actions to be taken for capping and closing a production pit at the above referenced site. The work plan, dated November 26, 2007, was formulated and submitted by your agent, Highlander Environmental Corporation. The work plan was formulated based on analytical data obtained from the pit area at varying depths. A borehole was advanced in the pit area to approximately 45 feet below pit bottom where dampness was encountered in the soil samples. The sample obtained at the 40-41 foot interval showed chloride levels to be at 1,360 mg/kg.

New Mexico State Engineer ground water data does not provide specific depth to ground water at this site, however, a water trend map utilized by OCD indicates that ground water may be present at approximately 50 feet below ground surface (bgs).

The work plan proposes to excavate out 5 feet around the perimeter of the pit and to a depth of 4 feet bgs, then cap and backfill the pit area. A monitor well would then be installed at the perimeter of the pit to evaluate ground water conditions.

The proposal to cap and backfill the pit is approved. Be advised that a thorough investigation of possible ground water contamination will be required at this site. Pit closure may be subject to re-excavation should the ground water contamination investigation warrant that event.

Please be advised that this approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health, or the environment. In addition, this approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance in this matter please contact me.

Sincerely,

Mike Bratcher
NMOCD District 2
1301 W. Grand Ave.
Artesia, NM 88210
575-748-1283 Ext. 108
mike.bratcher@state.nm.us