

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

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

API # 30025119620000

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 _____

WTR 190'

NATURE OF RELEASE

Type of Release	OIL	Volume of Release	Unknown	Volume Recovered	125 (well) + 145 (battery)
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?	<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
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By Whom?	DAWN HOWARD	Date and Hour	8/23/06 11:30 A.M. CT
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Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
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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:	<i>Chris Williams</i>
Title:	Operations Assistant	Approval Date:	1/16/08
E-mail Address:	dhoward@claytonwilliams.com	Expiration Date:	4/16/08
Date:	8/24/06	Phone:	432/688-3267
		Conditions of Approval:	<i>Need final report etc</i>
		Attached	<input type="checkbox"/>

* Attach Additional Sheets If Necessary

RP# 1073

RP# 1725

SITE INFORMATION

Type of Report: ASSESSMENT AND WORK PLAN

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
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 Tavaréz
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	itavaroz@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:		10

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



Highlander Environmental Corp.

Midland, Texas

October 11, 2006

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

RE: Assessment and Work Plan for the Southwest Royalties, Inc., Farnsworth Federal B #5 Well, 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) is 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.

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. The laboratory reports are included in Appendix B.

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 1. The laboratory reports are included in Appendix B.

Referring to Table 3, 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.

Work Plan

Well #5

The hydrocarbon impact at the Site is limited to the shallow soils at 0-1' below surface. Chloride concentrations were elevated to depths ranging from 1'-3' below surface. To properly remediate the impacted area, the soils with levels exceeding the RRAL for TPH and elevated chloride will be removed and hauled to Sundance Services for disposal. Once removed, the area will be backfilled with clean fill material. In addition, the overspray areas will be monitored for growth or for additional Micro-Blaze treatments.

Tank Battery

The hydrocarbon impact in the area is limited to 1'-3' below surface. Based on the results, the chloride concentrations do not appear to be an environmental concern. The areas exceeding the TPH RRAL at 1-3' will be excavated and blended below the RRAL. Confirmation samples will be collected from the remediated soils (stockpile) for evaluation. Once below the RRAL, the soil will either be placed back into the excavation or used as dike material at the facility.



Once completed, the results of the remedial activities, along with recommendations for further investigation or remediation, if any, will be submitted to the NMOCD. If you require any additional information or have any questions or comments, please call.

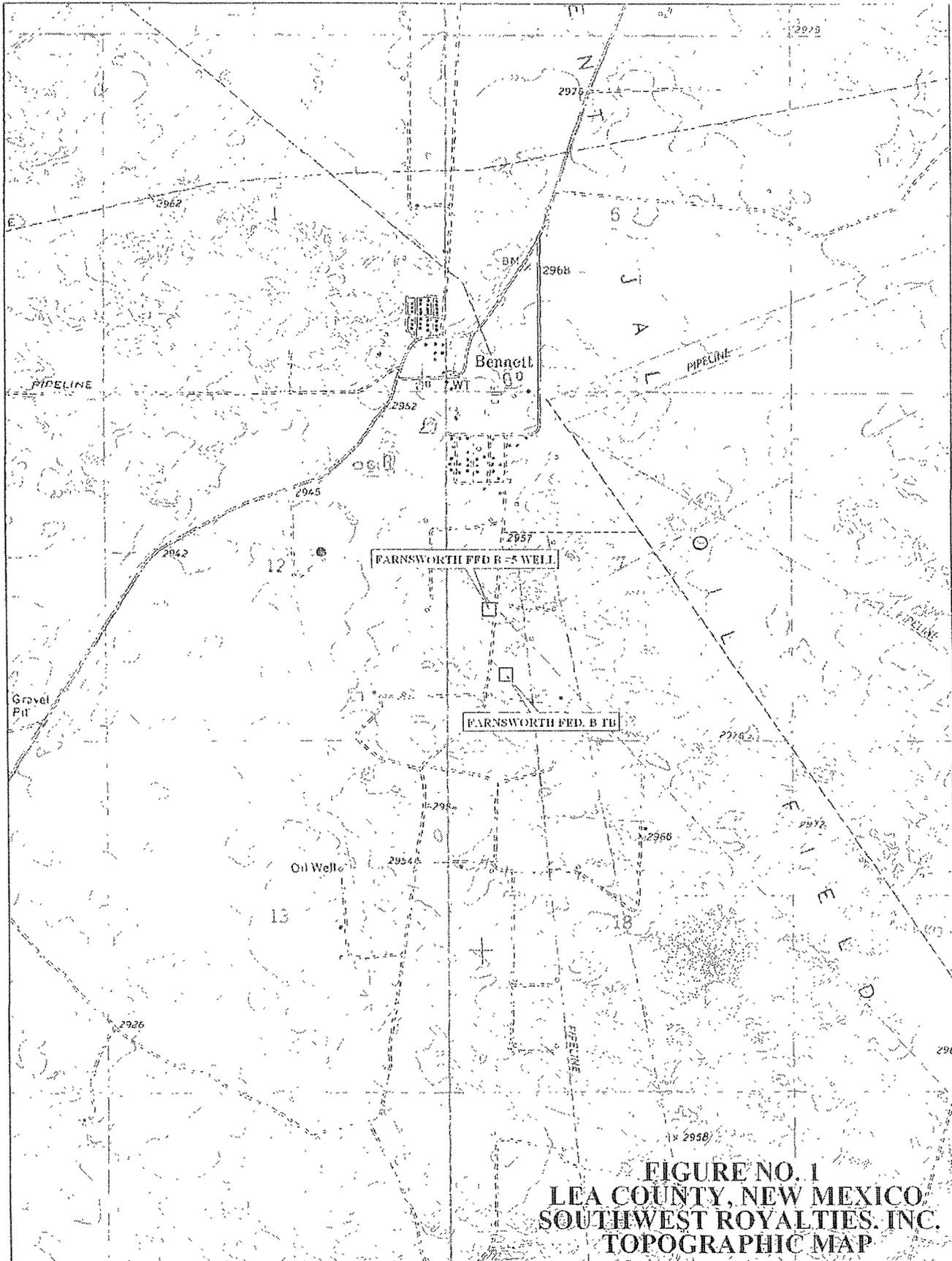
Highlander Environmental Corp.



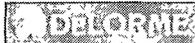
Ike Tavarez, P.G.
Project Manager/Senior Geologist

cc: Mat Sweic - SWR
Dawn Howard



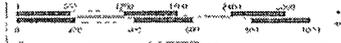


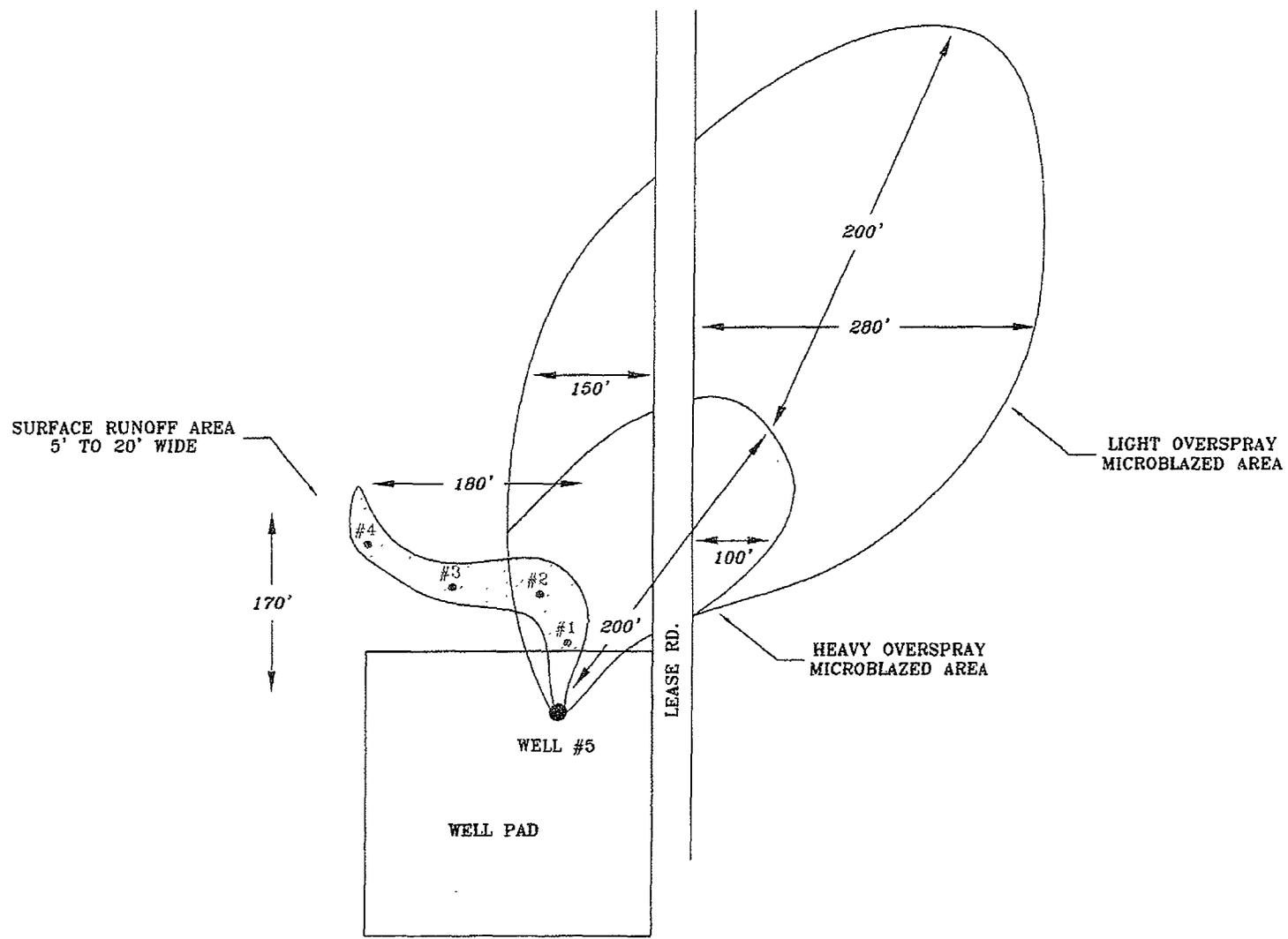
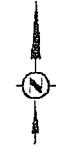
**FIGURE NO. 1
LEA COUNTY, NEW MEXICO,
SOUTHWEST ROYALTIES, INC.
TOPOGRAPHIC MAP**



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www.delorme.com

Scale 1 : 24,000
1" = 2000 ft





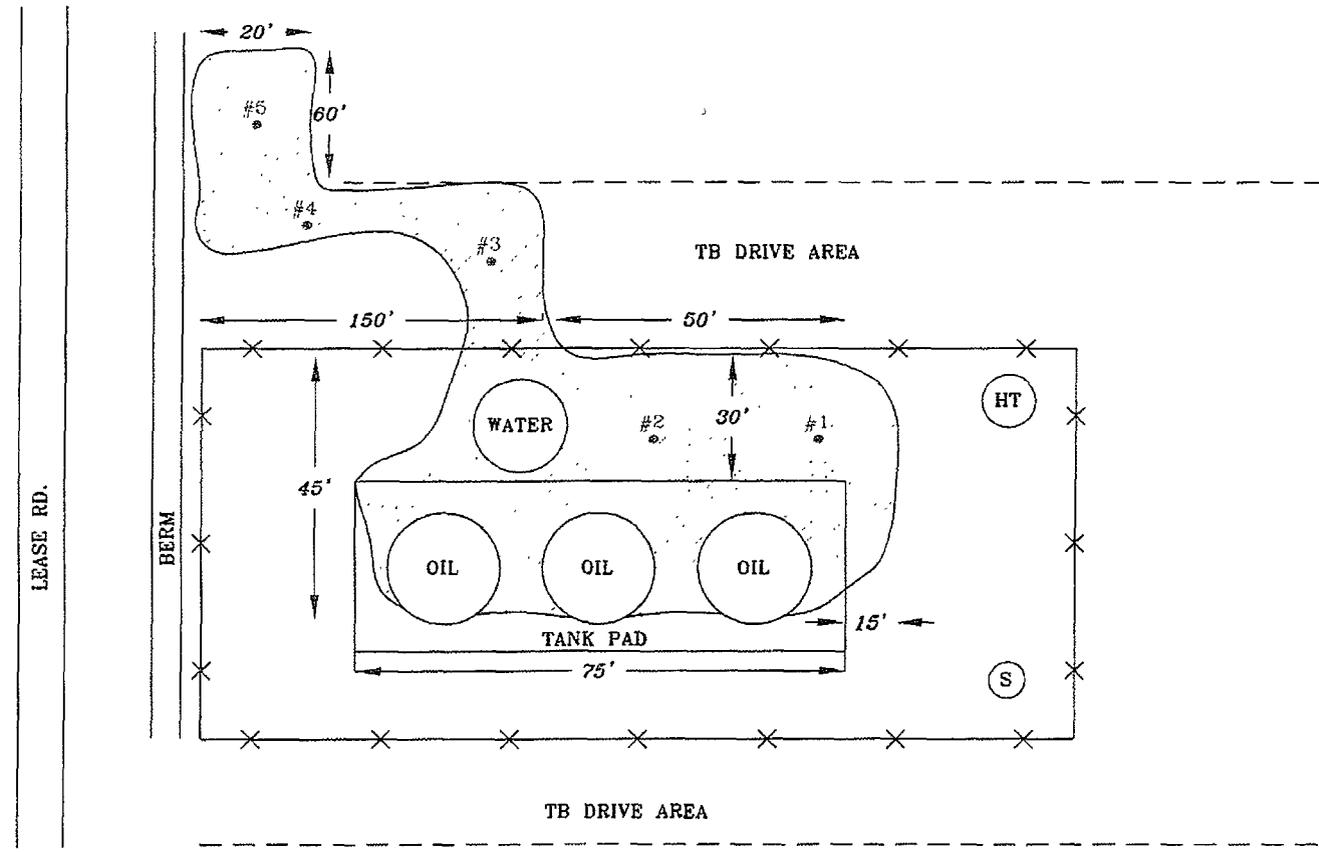
- LIGHT OVERSPRAY
- HEAVY OVERSPRAY
- SPILL AREA
- SAMPLE LOCATIONS

NOT TO SCALE

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:	ENCLWA/2724 FARNSWORTH FED. B #5



□ SPILL AREA
* SAMPLE LOCATIONS

NOT TO SCALE

DATE:
10/9/06
DWN. BY:
JJ
FILE:
C:\CMA\3224
FARNSWORTH FED. B I

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

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

Sample ID	Date Sampled	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)
			C6-C12	C12-C28	C28-C35	Total						
AH-1	8/24/2006	0-1.0	205	1,270	178	1,650	<0.05	0.059	0.114	0.289	0.113	2540
	8/24/2006	1-1.5	<50	973.0	277	1,250	<0.025	<0.025	<0.025	<0.025	<0.025	273
AH-2	8/24/2006	0-1.0'	4,810	18,300	1,550	24,700	0.205	1.58	1.26	3.28	1.46	6,890
	8/24/2006	1-1.5	<50	466.0	155	621	<0.025	<0.025	<0.025	<0.025	<0.025	406
AH-3	8/24/2006	0-1.0'	1,970	6,650	665	9,280	0.113	0.992	0.724	1.92	0.808	8,510
	8/24/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	12,100
	8/24/2006	2-2.5	-	-	-	-	-	-	-	-	-	3,200
	8/24/2006	3-3.5	-	-	-	-	-	-	-	-	-	<5
AH-4	8/24/2006	0-1.0'	5,960	21,100	1,670	28,700	0.225	1.83	1.30	3.63	1.31	1,480
	8/24/2006	1-1.5	<50	475.0	129	604	<0.025	<0.025	<0.025	<0.025	<0.025	834

(-) Not Analyzed

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

Sample ID	Date Sampled	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)
			C6-C12	C12-C28	C28-C35	Total						
AH-1	8/25/2006	0-1.0	379	12,300	1,910	14,600	<0.025	0.079	0.0839	0.365	0.103	429
	8/25/2006	1-1.5	<10	239	78.3	317	<0.025	<0.025	<0.025	<0.025	<0.025	62
	8/25/2006	2-2.5	<50	1,040.0	285	1,320						40
	8/25/2006	3-3.5										43.8
AH-2	8/25/2006	0-1.0'	1,590	19,100	3,160	23,800	0.0435	0.589	0.371	1.76	0.45	408
	8/25/2006	1-1.5	160.0	16,900	3,400	20,500	-	-	-	-	-	176
	8/25/2006	2-2.5	163.0	6,330	1,300	7,790	-	-	-	-	-	81.9
	8/25/2006	4-4.5	<50	530	243	773	<0.025	<0.025	<0.025	<0.025	<0.025	26
	8/25/2006	5-5.5	-	-	-	-	-	-	-	-	-	41
AH-3	8/25/2006	0-1.0'	50.9	4,220	1,010	5,280	<0.025	<0.025	<0.025	0.0463	<0.025	523
	8/25/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	541
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	508
AH-4	8/25/2006	0-1.0'	3,540	10,300	963	14,800	0.762	3.94	2.55	9.05	2.04	369
	8/25/2006	1-1.5	<10	208	73	281	<0.025	<0.025	<0.025	<0.025	<0.025	36.3
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	45.5
AH-5	8/25/2006	0-1.0'	560.0	1,460	108	2,130	0.340	2.09	1.49	3.08	1.17	244
	8/25/2006	1-1.5	<10	<10	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	47.5
	8/25/2006	2-2.5	-	-	-	-	-	-	-	-	-	197

(-) Not Analyzed

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

25 South 36 East

6	295	5	4	3	2	1
7		8	9	10	11	12
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

25 South 37 East

6		5	4	3	2	1
7		8	9	10	11	12
18		17	16	15	14	13
19	44	20	21	22	23	24
30		29	28	27	26	25
31		32	33	34	35	36

25 South 38 East

6	5	4	
7	8	9	
18	17	16	
19	20	21	22
30	29	28	27
31	32	33	

26 South 36 East

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

26 South 37 East

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

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)