

**Fasken Oil and Ranch, LTD.
Denton SWD #5
Delineation Report/Work Plan
Unit N, Section 2, Township 15S, Range 37E
Lea County, New Mexico**

September 12, 2007



Prepared for:

**Fasken Oil and Ranch, LTD.
303 W. Wall Suite 1800
Midland, Texas 79701-5116**

By:

***Safety & Environmental Solutions, Inc.
703 E. Clinton Suite 102
Hobbs, New Mexico 88240
(505) 397-0510***

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I. Company Contacts

NAME	Company	Telephone	E-mail
Jimmy Davis	Fasken	432-818-0267	jimmyd@forl.com
Jimmy Carlile	Fasken	432-818-0210	jimmyc@forl.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Fasken Oil and Ranch, LTD. to perform cleanup services at the Denton SWD #5 Tank Battery. The facility was affected by an overflow in the tanks caused by an injection pump failure. Approximately 205 barrels of produced fluid were released, 195 barrels were recovered. The spill was contained inside the bermed area.

III. Surface and Ground Water

The closest groundwater of record listed with the New Mexico office of the state engineer is located in the same section, range and township. The depth of water in this well was 47' in 1974. SESI has a monitor well installed approximately 3,634 northeast of this site. The depth of water in this well was 69.41' in March of this year.

IV. Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Work Performed

On August 29, 2007 SESI installed four (4) soil borings inside the spill area to determine the vertical extent of contamination. Borehole #1 was drilled to a depth of 20', Borehole #2 was drilled to a depth of 15' and Boreholes #3 and #4 were drilled to a depth of 10'. Samples were retrieved in 5' intervals from all boreholes. All samples were properly preserved and transported under Chain of Custody to Argon Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Total Petroleum Hydrocarbons (EPA Method 418.1), BTEX (EPA Method SW-846-8260), and Chlorides (EPA Method 4500-Cl⁻ B).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
8/29/07	BH #1-5'	800	180	ND	ND	ND	ND
8/29/07	BH #1-10'	720	55	ND	ND	ND	ND
8/29/07	BH #1-15'	180	ND	ND	ND	ND	ND
8/29/07	BH #1-20'	140	ND	ND	ND	ND	ND
8/29/07	BH #2-5'	190	4500	ND	ND	0.23	1.9
8/29/07	BH #2-10'	180	3400	ND	ND	0.19	1.4
8/29/07	BH #2-15'	53	ND	ND	ND	ND	ND
8/29/07	BH #3-5'	120	3000	ND	ND	0.33	4.1

Date	Sample ID	Cl⁻ (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
8/29/07	BH #3-10'	90	870	ND	ND	0.017	0.19
8/29/07	BH #4-5'	320	1200	ND	ND	ND	0.040
8/29/07	BH #4-10'	150	140	ND	ND	ND	ND

All borings were backfilled from total depth to surface with bentonite.

VI. Action Plan

It is proposed that a cosmetic cleanup, consisting of the removal of the top 12"-15" inches of soil, be performed around the tank battery. The remaining spill area will be excavated for the removal of the most highly contaminated and/or saturated material. The excavated soils will be transported to an NMOCD approved facility for disposal. The excavations will then be backfilled with clean soils.

This is an active tank battery and the operator is fully aware that at such time the battery and lease is abandoned, additional cleanup may be required.

Upon completion a closure report will be submitted to the NMOCD.

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Logs of Boring
Appendix A – C-141
Appendix B – Site Photos

Figure 1

Vicinity Map

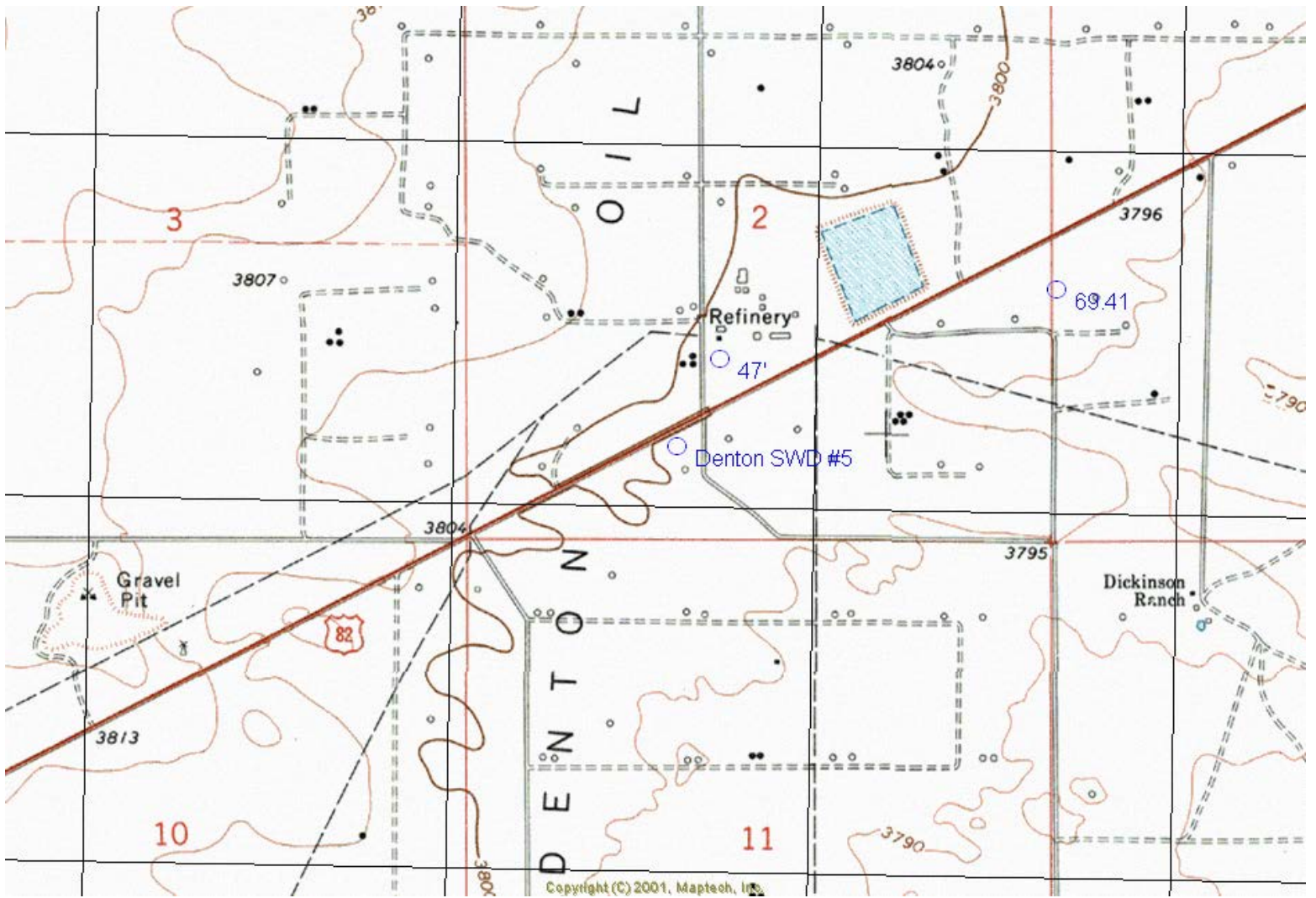


Figure 2

Site Plan

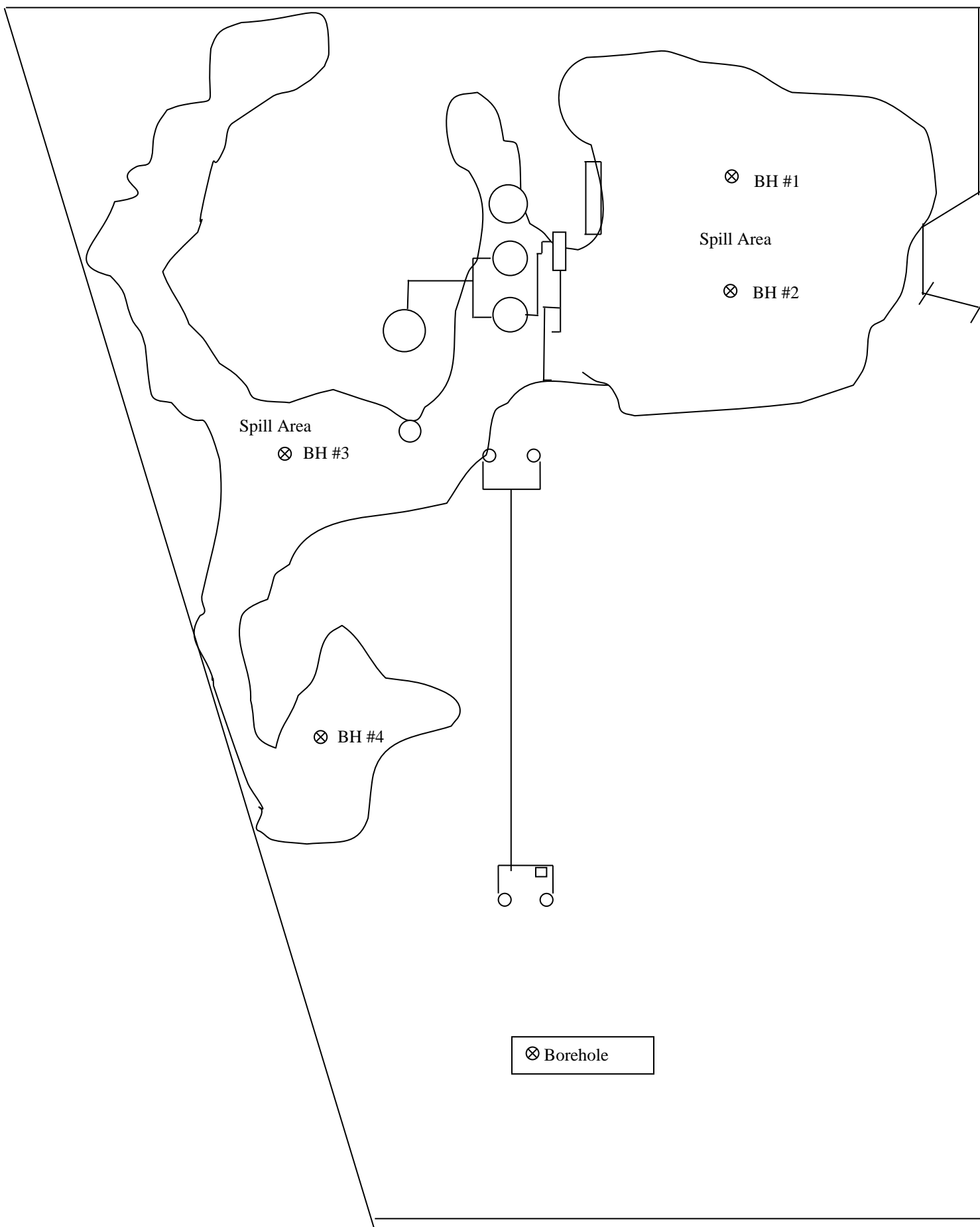


Figure 3

Logs of Boring

Appendix A

C-141

Corrected Jerri
volumes Lee

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised 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	Fasken Oil and Ranch, Ltd.	Contact	Jimmy D. Carlile
Address	303 W. Wall, Ste 1800 Midland, TX	Telephone No.	432 687-1777
Facility Name	Denton SWD No. 5	Facility Type	Salt Water Disposal
Surface Owner	Darr Angell	Mineral Owner	Fee
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	2	15S	37E	660	south	1980	west	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE 20 BW

15 BW

Type of Release	salt water/oil	Volume of Release	185 BO	Volume Recovered	180 BO
Source of Release	stock tank	Date and Hour of Occurrence	Date and Hour of Discovery		
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	4/26/07 1 am	4/26/07 1 am	
By Whom?	Jimmy D. Carlile	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

NA

Describe Cause of Problem and Remedial Action Taken.*

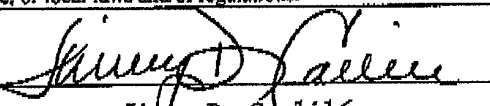
Injection pump failed. Pump to be repaired.

Describe Area Affected and Cleanup Action Taken.*

Area affected inside of bermed facility. Fluids picked up by vacuum trucks.

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

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: Jimmy D. Carlile			
Title: Regulatory Affairs Coord.	Approval Date:	Expiration Date:	
E-mail Address: jimmyc@forl.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/26/07 Phone: 432 687-1777			

* Attach Additional Sheets If Necessary

Appendix B

Analytical Results

Appendix C

Site Photos













