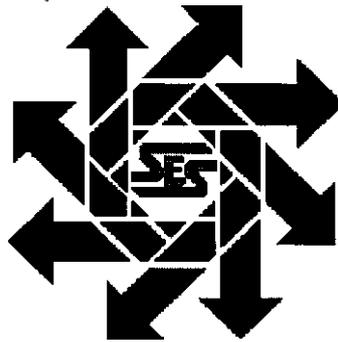


**Merit Energy  
Turner B North Battery  
Work Plan  
Section 20, Township 171S, Range 31E  
Eddy County, New Mexico**

**February 12, 2004**



**Prepared for:**

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**I. Purpose**

The purpose of this work plan is to propose a plan for the cleanup of the area identified as the Turner B North Battery Site. The site is located in Section 20 Township 17S Range 31E, Eddy County, New Mexico. The site is situated on a relatively level site. (Vicinity Map)

**II. Background**

The subject site is a tank battery area, which is used for the storage of fluids produced from the wells associated with this lease. On January 15, 2004, the produced water tank leaked produced fluids onto the ground inside the bermed area of the battery. Approximately 510 barrels of fluid was released and approximately 500 barrels was recovered.

**III. Contaminant and Size of Area**

The suspected contaminant is produced water associated with the tank battery at the site. The release was contained inside the bermed area of the battery. The affected area was not grossly stained with hydrocarbons. (Site Plan)

Crude oil and produced water are considered exempt oilfield waste. No evidence of other contaminants was observed.

**IV. Vertical and Horizontal Extent of Contamination**

The vertical and horizontal extent of the contamination will be determined through the use of boreholes.

**V. Groundwater**

There is no groundwater of record in the area according to information received from the New Mexico State Engineer.

**VI. Action Plan**

Based on visual observations, the cleanup level reached by the application of the "**Guidelines for Remediation of Leaks, Spills and Releases**" *New Mexico Oil Conservation Division* – August 13, 1993 (Guidelines) to this site is 5000 ppm TPH. Application of the NMOCD's ranking criteria for contaminated soils at this site is presented below.

Depth to Ground Water:	0 points
Distance to Well Head or Water Source:	0 points
Distance to Surface Water/Waterways:	0 points
<hr/> Total Score:	0 points

This site has been affected primarily with produced water from the release from tank. Since the only area affected is inside the tank berm, SESI feels that this site is an excellent candidate for a risk based closure.

SESI proposes that the affected area be delineated regarding vertical extent for chlorides and Total Petroleum Hydrocarbons (TPH) by installing boreholes. The depth of each borehole would be determined by the chloride and TPH concentrations of 250 ppm and 5000 ppm respectively. The boreholes will be sampled every 5' until these levels are reached. This information will determine the vertical extent of contamination and will be reported to the New Mexico Oil Conservation Division in a closure request.

This battery is currently active and will continue to be so for the foreseeable future. Therefore, it is recommended that the delineation of this site be the only action required to be taken at this time. The operator is fully aware that at such time the battery and lease is abandoned, additional cleanup may be required.

## **VII. Figures & Appendices**

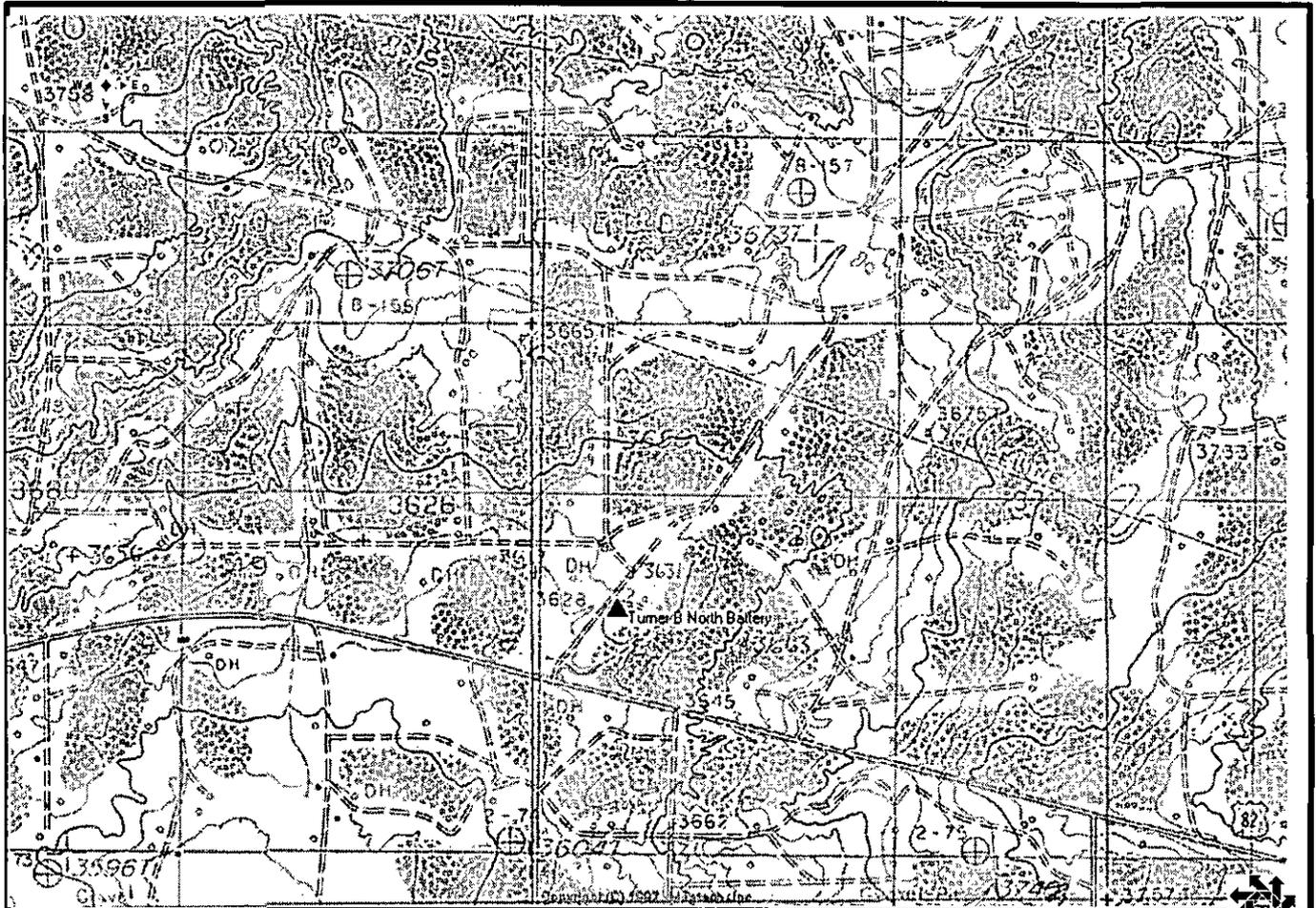
Figure 1. Vicinity Map

Figure 2. Site Plan

Appendix A C-141

Appendix B Site Photos

**Figure 1**  
**Vicinity Map**



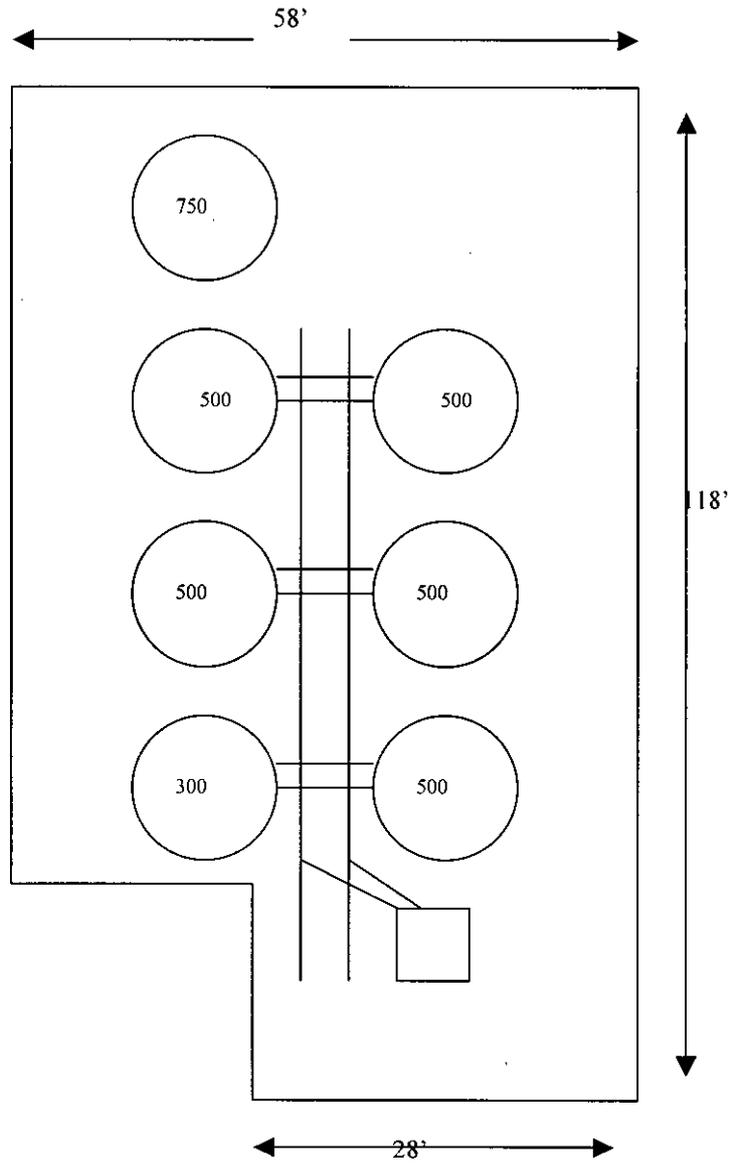
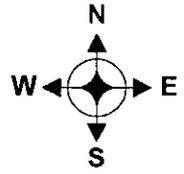
Merit Energy

**Turner B North Battery**  
S20, T17S, R31E  
Eddy County, New Mexico

Safety & Environmental Solutions, Inc.



**Figure 2**  
**Site Plan**



Not to Scale



**Merit Energy**

**Turner B North Battery  
Sec. 20, 17S, R31E  
Eddy County, New Mexico**

**Safety & Environmental  
Solutions, Inc.**

**Appendix A**  
**C-141**

## **Appendix B Site Photos**

