

RCRA FACILITY INVESTIGATION  
DRAFT REPORT  
GIANT REFINING CO.  
GALLUP, NEW MEXICO  
NOVEMBER 27, 1990  
BOOK 1

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SECTION 1.0  
INTRODUCTION



## INTRODUCTION

This document outlines the specific activities that have been conducted for the Phase I RFI requirements for Giant Refining Company. All sampling, analytical and statistical calculations have been completed with the results incorporated in this report.

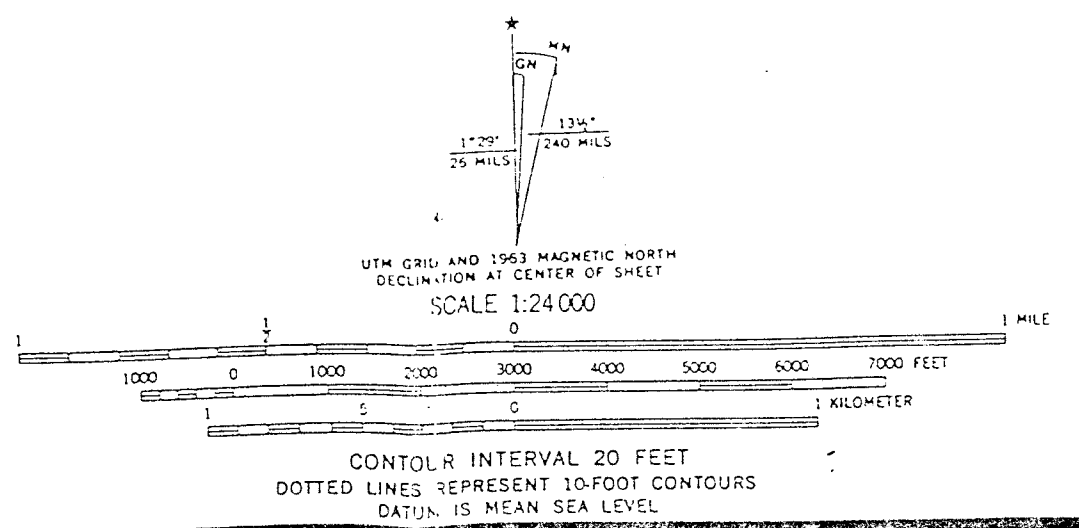
Soil samples were collected from SWMU's #6, #8, #9, and #10. Sample collection was conducted by Giant Refining Co. and Rodgers and Company from Albuquerque, New Mexico. Rodgers and Company used a drilling rig equipped with hollow stemmed augers to sample most of the angle borings. Giant Refining Co. sampled the vertical borings and the three angle borings around the tanks that were not accessible to the drilling rig. Giant used a backhoe, hand augers, and soil probes for sampling. Section 6.3 explains the sampling company technique and sampling notes for each individual boring. The soil samples were collected from June 25 to July 5, 1990. PRC Environmental Management Inc., a consultant for the EPA observed some of the sampling and participated by splitting several samples.

All soil samples were sent to Enseco-Rocky Mountain Analytical Laboratories in Arvada, Colorado for final testing. Section 4 explains all modifications of constituent requirements and reporting limits that were listed in the May 17, 1990 Generic Sampling Plan. Section 9 includes a copy of all original Enseco analytical data and QA/QC. Section 8 has the analytical data in a tabulated summary form.

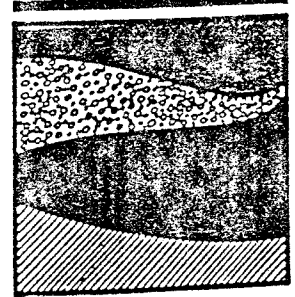
Giant contracted American Liner Co. to inspect the contact wastewater collection system. Cook Construction Co., a division of American Liner Co., conducted the actual inspection. They used a vacuum truck equipped with a high pressure washer to clean the lines and sumps. A camera was used to video the lines. The final report and an edited version of the video tape (2 hours) is included in Section 5 of this document.

The statistical analysis and results are in Section 7. All statistical calculations were prepared by Mark Wilson, a math professor with the University of New Mexico. This section explains the methodology used in determining the background values for the metals and the actual comparisons of the background values to the sample results.

There was not any bench scale studies conducted at this phase of the project. They will be conducted in the corrective measures studies when alternatives and cost estimates are being evaluated.



**Geoscience  
Consultants, Ltd.**



**FIGURE 1-1  
GENERAL LOCATION MAP, CINIZA REFINERY AREA**

CLIENT:	GIANT
DATE:	OCTOBER, 1985
DRAWN BY:	JCH
CHECKED BY:	
REVISED:	
SCALE:	1:24,000