



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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## DIVISION OF OIL GAS & MINING FIELD VISIT FORM TECHNICAL

**Date :** September 25, 1996

**Time:** 9:00 a.m. to 1:00 p.m.

**Mine:** Crandall Canyon Mine

**File Number:** ACT/015/032 Folder #2

**DOG M Staff:** Robert Davidson and Paul Baker

**Other Attendees:** Gary Gray - Genwal Resources, Inc., Dave Steed - EIS, and Larry Johnson - Andalex

**Purpose:**

Identify soil salvage areas and stockpile location.

**Observations:**

Soil salvage sites were identified in two bench locations - (1) across from the coal pile area - a 100 foot long bench, approximately 10 to 20 feet deep and (2) adjacent to the shop area - a 200 foot long, 10 foot deep bench that runs parallel along the north side of the stream.

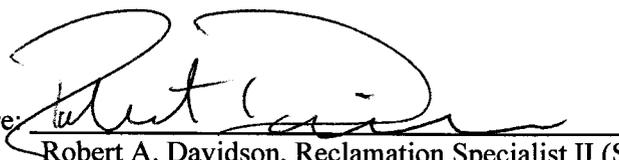
Three possible stockpile locations were identified - (1) up behind the shops on a unused pad area, (2) just below the facilities area, south side of the road, and (3) canyon mouth, north side of the road.

**Recommendations/Conclusions:**

Plans include salvaging both bench areas and stockpiling the soil for latter reclamation efforts. Soil will help subsidize and alleviate the current soil deficit. The goal is to attain an average 18 inch replacement soil thickness across the disturbed area.

A fill marker layer was discussed for the culvert fill project. The marker fill will be placed immediately on the liner prior to adding the general fill. During reclamation, this marker layer will indicate when excavation is approaching the liner. The marker fill consists of road-base reject material. Preliminary field measurements of this material located at the mouth of Huntington Canyon in the sand and gravel pit showed the following: fine sand, pH 7.8, and ECE 3.2 mmhos/cm .

In addition, we discussed possible salt leachate problems associated with leaching of the fill material used to construct the proposed facilities pad. Since the fill comes from the mouth of Huntington Canyon, any material from this area is heavily influenced by the manchoes shale environment. Leaching of any high salt-affected fill could pose a salt threat to the buried soils if the liner is water permeable. If the liner is impervious, a drainage field would help eliminate saturation conditions.

Signature: 

Robert A. Davidson, Reclamation Specialist II (Soils)

on September 30, 1996

