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State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

DIVISION OF OIL GAS & MINING
FIELD VISIT FORM
TECHNICAL

Date : September 11, 1996
Time: 10:00 a.m. to 3:00 p.m.
Mine: Des Bee Dove Haul Road
File Number: ACT/~~007/011~~ ~~#2~~ 015/017 #2
DOGM Staff: Robert Davidson, Joe Helfrich, Pamela Grubaugh-Littig, Ken Wyatt, Susan White and Bill Malencik
OSM Staff: Ron Singh
Other Attendees: Richard Northrup and Guy Davis, EWest, and Patrick Collins, Mt. Nebo

Purpose:
Des Bee Dove Haul Road Task Force meeting to discuss current test-plots and future test plots and reclamation direction.

Observations:
Based on the past three years, including this years survey, the best treatment for revegetation success are as follows: Best - Coal waste, next - Rocky soil and live earth, next - coal waste and live earth, next - rocky soil, and last - native soil. Soil analysis data show that the coal treatments lowered the soil pH to around 7.0 in the top 6 inches. Other relative benefits from the coal were lower SAR values, lower EC values, and higher percent carbon and Sulfur. The acid-base potential for coal treatments was much lower when compared to the other treatments. Based on these facts, it appears that the coal modified the manchos soil by lowering the pH with secondary effects of reduced alkalinity and total salts. It was quite apparent at the plots that the coal treatments were superior to the other treatments with greater cover, greater density and wider variety of plants. Other apparent benefits from the coal and rocky-soil cover was reduced erosion on the surface. Rain drop impact damage is would be much reduced with greater infiltration and retention of moisture within the surface treatment.

Recommendations/Conclusions:
It was decided that future plots would be designed using engineering and hydrology aspects to help control erosion in addition to the surface treatment and seed mix. The best two performers, mix of the two, and a control will be used as treatments. With three replications, this will require 12 plots. Curlex blanket will be used on all plots with the same seed mix. The plots will be located at the toe of the slope where the slope and aspect will be similar to those at reclamation. The plots will be laid out to maximize slope length and plot width. The task force will reconvene in April 1997 with the goal to mobilize the test plots by fall of 1997.

Signature: Robert A. Davidson on September 12, 1996
Robert A. Davidson, Reclamation Specialist II (Soils)
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