



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

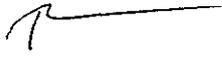
James W. Carter  
Division Director

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)

July 5, 1994

*File # 2*

TO: Permit Supervisor

FROM: Tom Munson, Reclamation Specialist 

RE: Phase II Field Visit, Huntington #4, Mountain Coal Company, ACT//015/004, Working File, Carbon County, Utah

Synopsis

On May 18, 1994 Division personnel and OSM personnel visited the Huntington #4 mine site and performed a Phase II bond release inspection.

Analysis

In support of a memo written to file on March 14, 1994 discussing the sedcad + results for Phase II bond release, a site visit was carried out on May 18, 1994 to determine that the on-site conditions were erosionally stable. Based on visual observation there was no obvious signs of surface erosion.

Recommendation

The Phase II bond release be granted based on the outcome of the site visit carried out on May 18, 1994 and the Sediment Production Comparison for pre- and post-mining.





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)

March 14, 1994

To: File  
 From: Tom Munson  
 RE: Bond Release Related to Erosion and Sediment Control, Mountain Coal Company, Huntington #4, ACT/015/004 and Gordon Creek #3+6, ACT/007/017, Folder #2, Carbon and Emery Counties, Utah

An analysis related to past and present erosion rates from reclaimed mine sites was submitted by Mountain Coal Company using a Sediment Production Comparison generated by the Civil Software Design Sedcad + Program, Version 3 (1992). The runoff volume, peak flow and sediment concentration were compared between past and present activities. The final results were given in terms of concentration (mg/l) or tons of sediment generated.

SEDCAD RESULTS

Gordon Creek 3 & 6

	Pre-mining	Post-Mining
Tons of Sediment Generated	16.8 tons	7.7 tons
Peak Sediment Concentration	29725 mg/l	17966 mg/l

Huntington # 4

	Pre-mining	Post-mining
Tons of Sediment Generated	450.2 tons	449.7 Tons
Peak Sediment Concentration	196,524 mg/l	193,187 mg/l

The initial results of this computer analysis indicates that the sediment loads from the reclamation activities are no different than the pre-mining conditions. It appears that the model is sensitive to different input parameters whether it be soils-related or watershed-related. Use of this modeling procedure does not mean that this is the only tool to assess erosion. Since the Universal Soil Loss Equation used in SEDCAD does not allow for gully erosion, it is important that an on-site assessment be made to ascertain any significant rill or gully erosion.

Phase Two Bond Release  
March 14, 1994  
Page Two

Recommendation

A site visit should be held to ascertain that on-site conditions are erosionally stable. The specific field method to assess this field stability will be determined prior to this site visit. The SEDCAD analysis should be approved and this information used as supporting documentation in any Phase II bond release document.