



Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

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**TO:** Daron Haddock, Permit Supervisor

**FROM:** Rick P. Summers, Senior Hydrologist *RS*

**RE:** Review Drainage Design Changes and Sediment Pond Capacity Demonstration (Received December 12, 1991), Amendment ACT/015/032-92A, Crandall Canyon Mine, Genwal Coal Company, ACT/015/032, Emery County, Utah

## SUMMARY

This proposal was submitted to revise drainage plan for diversions DD-5, and DD-9 and provides updated calculations for the sediment pond capacity and expected runoff changes as the result of paving the site facilities area and road. The proposal was reviewed and found to be sufficient as an interim demonstration of the sediment pond capacity. A final assessment and analysis of the sediment pond capacity cannot be adequately done until the surface facilities map (Plate 3-1) is revised. NOV N91-15-2-3 currently requires that this map be updated and field survey verified as to the precise location of the disturbed area and facility features. The conditions at the site (winter snow cover) may preclude the survey until this spring (April 1992).

At the time an accurate, current map of the site is presented a complete technical analysis of the sedimentation pond will be conducted. The information presented in this proposal is complete and adequate with the exception of the verification of the disturbed runoff area reporting to the pond. Therefore, I recommend approval of this package for the interim period until the disturbed area can be verified.

Diversion DD-9 needs to be modified to accommodate the construction of a shop addition adjacent to the existing shop/warehouse building. Essentially, a open channel type diversion will be replaced with a culvert (culvert C-8). Culvert sizing calculations demonstrate the culvert size is adequate to pass the 10 yr. - 24 hr. precipitation event. The request is approvable.

cc: P. Burton  
GENSEDPA