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007/004 #5



**EarthFax**

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**RECEIVED**

APR 08 1992

DIVISION OF  
OIL GAS & MINING

April 8, 1992

Mr. Darin R. Haddock  
Permit Supervisor  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

RE: Notice of Violation No. N92-28-1-1 at the Castle Gate Mine

Dear Darin:

Pursuant to NOV N92-28-1-1 issued on March 9, 1992, we are submitting the calculations for sedimentation ponds 012A and 012B at the Castle Gate Mine. The sedimentation pond calculations are based on the 25-year, 6-hour precipitation event.

Sedimentation pond 012A is adequate as constructed. The peak inflow rate to the pond is 9.81 cubic feet per second (cfs) while the peak discharge rate from the primary spillway is 5.72 cfs. The peak stage elevation is 97.86 feet (refer to the as-constructed drawing certified by Mr. Dan Guy of Blackhawk Engineering, Co.). The resulting freeboard is 1.14 feet.

AMAX Coal Company will raise the embankment for pond 012B to an elevation 2 feet above the primary spillway flowline. This is represented by an elevation of 93.0 on the as-constructed drawing. The proposed pond modification will ensure a freeboard of 1.13 feet above the peak stage elevation of 91.87 feet. The peak inflow rate to pond 012B is 14.23 cfs while the peak discharge rate from the primary spillway is 11.75 cfs.

The enclosed calculations satisfy remedial action requirement #3 of the referenced NOV. Requirement #4 will be satisfied by raising the pond 012B embankment. This construction will be completed by April 25, 1992.

If you have any questions or need additional information, please contact me.

Sincerely,

Carol A. Bjork, P.E.  
Civil Engineer

Enclosure

cc: Richard Allison, AMAX