

ACT/015/032 File #2)

United States  
Department of  
Agriculture

Forest  
Service

Manti-LaSal  
National Forest

599 West Price River Drive  
Price, Utah 84501

003

Reply to: 2820

Date: January 14, 1988

Lowell Braxton  
State of Utah Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**  
JAN 19 1988

DIVISION OF  
OIL, GAS & MINING

Dear Lowell:

We have reviewed Response to Mid-Permit Term Conditions, December 3, 1987, Submittal, Crandall Canyon Mine, Genwal Coal Co., ACT/015/032, Emery County, Utah.

As discussed with Kent Wheeler on the telephone, the energy dissipator basin was designed assuming a scour hole at a pipe outlet. The energy dissipator should have been designed as a basin to contain a hydraulic jump forced near the change from a steep slope to a mild slope. The basin and riprap sizes determined for a scour hole in this case are, however, adequate for the expected hydraulic jump.

The energy dissipator, as designed, is adequate and can be approved, however, the calculations should be revised to show proper design criteria considering the hydraulic jump.

Sincerely,



WILLIAM H. BOLEY  
Acting Forest Supervisor