



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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January 15, 1988

TO: John Whitehead, Permit Supervisor
FROM: James R. Fricke, Reclamation Hydrologist *JRF*
RE: Ten-Day-Notice Response #8, Beaver Creek Coal Company,
C. V. Spur, ACT/007/022-87E, Folder #2, Carbon County, Utah

Synopsis

The operator's response (December 10, 1987) to the Division's request (November 16, 1987) for TDN response #8 is not adequate. The operator intends to monitor culvert outlet protection (riprap) in lieu of standard engineering design procedures.

Analysis

Regulation UMC 817.47 (Discharge structures) requires that diversions shall be controlled by riprap channels where necessary to reduce erosion. Furthermore, discharge structures (culverts) shall be designed according to standard engineering design procedures.

The operator must submit a plan showing culvert outlet velocity calculations, riprap sizing determination, and length, width, and depth of riprap. Filter blankets or cement grout must be used with riprap.

Recommendations

The Division should not approve the amendment until the operator provides sufficient riprap design plans.

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