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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
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February 4, 1988

Mr. Dan W. Guy, Manager
Permitting & Compliance
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Review PAP Amendment, Ten-Day-Notice (TDN) #7 and #8 Response, Riprap Design for Culvert Outlets, Beaver Creek Coal Company, C. V. Spur Preparation Facility, ACT/007/022-87E, Folder No. 2, Carbon County, Utah

The Division received Beaver Creek Coal Company's (BCCC) response to TDN #7 and #8 on December 16, 1987. The latest response was reviewed by James R. Fricke, Reclamation Hydrologist. The operator's response to monitor culvert outlet protection measures (riprap) in lieu of standard engineering design procedures is not adequate for approval. The Division requests that Beaver Creek Coal Company provide additional information as outlined in the attached memorandum to address the remaining technical concerns.

Please provide your response to our request for additional information by February 28, 1988. We appreciate your cooperation in completing this permitting action. Please call if you have questions or need additional information regarding this review.

Sincerely,

D. Wayne Hedberg
Data Management Coordinator

djh
Attachment
cc: R. Hagen J. Whitehead
 P. Rutledge P.F.O.
 J. Fricke
8992R/22



January 15, 1988

TO: John Whitehead, Permit Supervisor

FROM: James R. Fricke, Reclamation Hydrologist *JRF*

RE: Ten-Day-Notice Response #7 and #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 #7 and #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 culvert outlet protection plan showing velocity calculations, riprap sizing determination, and length, width, and depth of riprap. Filter blankets or cement grout must be used with riprap. The plan should be implemented wherever culvert erosion protection is required.

Recommendations

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

djh
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