

Norman H. Bangerter
GovernorDee C. Hansen
Executive DirectorDianne R. Nielson, Ph.D.
Division Director355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

October 19, 1990

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Tom Munson, Senior Reclamation Hydrologist *TM*

RE: Proposed Ventilation Portal, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009-90G, Folder #2, Emery County, Utah

Synopsis

A proposal to build a new ventilation portal was received on October 15, 1990. This memo reviews this request.

Analysis

Approximately .34 acres of new disturbance will be treated by beams no less than 30" high along the outer edge of the road. A portion of the drainage will drain to the pond and a portion will drain to the portal. Calculations and expected flows are provided.

Calculations have been presented for surface water drainage expected to drain into the portal. Approximately 3.67 acres of undisturbed drainage and .16 acres of disturbed drainage result in .24 ac. ft. of runoff from the 10 year-24 hour storm event.

Since the water draining from the portal area will not leave the mine, the operator will be required to address the requirements of R614-301-731.500, making a statement that the runoff will not have to meet applicable water quality standards or effluent limits. The operator also has to provide documentation that this discharge into the mine meets the approval of M.S.H.A.

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The addition of the disturbed drainage to the pond required an assessment of the pond's ability to handle this drainage. This decision necessitated by the generation of new maps by the operator showing drainage (disturbed and undisturbed) and a survey of the existing pond to determine pond storage requirements. The existing pond was discovered to be deficient .794 AC-FT in storage volume by the operator's own calculations.

Based on the fact that the operator created these calculation discrepancies, when new maps were used to calculate drainage areas, the Division feels that a new proposal to clean and enlarge the pond is the appropriate course of action. This needs to occur prior to approval of the portal amendment or culvert extension amendment.

Recommendation

This amendment be approved when the following information is submitted and approved.

- 1) Approved design plans for enlarging the sediment pond.
- 2) A statement from the operator demonstrating compliance with R614-301-731.500.

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