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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

015/025 # 2
Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 3, 1987

Mr. Melvin Coonrod
Permitting and Compliance
Co-Op Mining Company
P.O. Box 1245
Huntington, Utah 84528

Dear Mr. Coonrod:

Re: Review of PAP Amendment, Minor Hydrologic Design Changes for Lower Seam Portal Area, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-87E, Folder #2, Emery County, Utah

The Division has completed the review of the plans received September 22, 1987 for the PAP amendment referenced above. The plans have been reviewed by Tom Munson, Division Hydrologist and are technically deficient. Please refer to the attached technical review memorandum for an explanation of the information still required before approval may be considered for this amendment.

Please provide the requested information by November 20, 1987. Thank you for your cooperation in completing this permitting action. Please call me, Tom Munson or John Whitehead should you have questions regarding this amendment review.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg
Data Management Coordinator

jvb
cc: R. Hagen T. Munson
 P. Rutledge J. Whitehead
 D. Ariotti P.F.O.
8992R/19



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October 30, 1987

TO: John Whitehead, Permit Supervisor
FROM: Tom Munson, Reclamation Hydrologist *TM*
RE: Proposed Drainage Plan Lower Seam Portal Area, Co-Op Mining Company, Bear Canyon Mine No. 1, Folder #2, ACT/015/025-87E, Emery County, Utah

HISTORY OF PROPOSAL

On June 17, 1987, the Division granted conditional approval of the Hiawatha Seam Revision for the Bear Canyon Mine. At that time, the applicant proposed certain hydrologic controls for the area. It became apparent that these controls would not be acceptable for the final slope configuration. On September 4, 1987, an onsite meeting was held with Dan Guy, Wendell Owen, Bill Malencik and myself to discuss a feasible drainage control plan for the benched slope configuration.

ANALYSIS

The plans are acceptable to divert the drainage in a 15-inch flexible culvert from the upper road portal area onto the Hiawatha Seam Belt Portal Pad, to the conveyor support pad, then to the coal processing pad and down to an energy dissipator below the lump coal pad.

RECOMMENDATIONS

The following deficiencies need to be addressed:

1. All detail drawings need to be stamped by a registered professional engineer per the requirements of UMC 784.23(c).
2. Plate 2-2 was not included with the plans and needs to be submitted.

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Memo to J. Whitehead

ACT/015/025

October 30, 1987

The following information needs to be incorporated into the plan:

1. The operator will show how the flexible culvert will be secured where it travels parallel to the conveyor to the lump coal bin and into the energy dissipator.
2. The Coal Processing Pad will have a grouted inlet structure similar to the upper pads. This is unclear in the plan.
3. The grouted inlet boxes will have removable trash racks which will make maintenance or removal of sediment or rocks possible. The trash racks will use a 3-inch grate instead of the proposed 6-inch grate to eliminate passing of 4-6 inch rocks.
4. The operator will provide calculations for Culvert C-20 to show that this culvert has the required headwater and diameter necessary to pass the flows from this area. The operator will show what improvements will be implemented to prevent plugging of this culvert from coal pile debris.
5. The operator will clarify Figure 7-F5. It appears from the drawing that the basin will be only inches deep once you incorporate the 18" rock.
6. The operator will commit to the following statement: The downspout structure associated with upper road and pad will cascade over the highwall above the portal entrance. If excessive erosion or other problems become apparent with this structure, then an extension to the current 15" downspout will become necessary.

djh
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