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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

September 10, 1991

Mr. Allen Childs
Genwal Coal Company
P. O. Box 1201
Huntington, Utah 84528

Dear Mr. Childs:

Re: Conditional Approval, UD-3 Culvert Amendment, Genwal Coal Company,
Crandall Canyon Mine, ACT/015/032-91E, Folder #2, Emery County, Utah

The submittal received on September 4, 1991 regarding the above noted permitting action was reviewed and found to be complete and adequate by Rick Summers, Senior Reclamation Hydrologist, of the Division's technical staff.

The Division hereby conditionally approves the above referenced action. Final approval is contingent upon your submittal of ten (10) copies of the amendment in a format ready for direct insertion into the MRP. These copies must be submitted by October 10, 1991.

Please review the attached technical memo for further detail. Thank you for your cooperation in resolving this matter.

Sincerely,

A handwritten signature in cursive script that reads "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

Enclosure
cc: R. Summers
BT015032.91E



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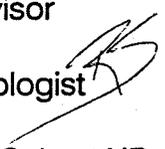
Dee C. Hansen
Executive Director

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September 5, 1991

TO: Daron Haddock, Permit Supervisor

FROM: Rick P. Summers, Senior Hydrologist 

RE: Review Amendment to Replace Culvert UD-3 (received September 4, 1991), Genwal Coal Company, Genwal Mine, ACT/015/032, Folder #2, Emery County, Utah

SUMMARY

The above referenced culvert diverts an ephemeral channel located above the portals and portal pad from the disturbed area. The diversion is necessary to divert the water from the sediment pond because of size limitations on the pond. The current culvert is an 18 inch PVC pipe with has deteriorated significantly.

The operator proposes to replace the culvert with a 12 inch CMP. The downsizing is due to the recently adopted changes in our rules with allow a diversion to be designed for a 10 yr. - 6 hr. event. The previous design was based on a flow of 5.5 cfs (10 yr. - 24 hr. event), while the new design is based on a flow of 0.78 cfs (10 yr. - 6 hr. event). The peak flow and culvert sizing has been verified to be correct (attached).

The proposal is approvable. The operator should submit the proposal in a format for direct insertion into the MRP (i.e. pages 11 and 12 of 27, Chapter 7 and revised text as appropriate).

GENUD3.MRC

INPUT SUMMARY

FOR W.S.: Genwal Portal Diversion UD-3

STORM:

WATERSHED:

*Values from
MRF, chap. 7*

DISTRIBUTION =SCS TYPE 'B'

LAND SLOPE = 0.0000 PCT

CURVE NUMBER = 69.00

PRECIP.DEPH = 1.90 IN

CHANNEL LENGTH = 0.00 FT

DURATION = 6.00 HR

TIME OF CONC. = 0.1200 HR

NUMBER OF LINES = 391

AREA = 8.96 AC

D = 0.0160 HR

Press ENTER to Begin Computations

Genwal Portal Diversion UD-3

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RUNOFF DEPTH = 0.1825 IN

INITIAL ABSTRACTION = 0.8986 IN

PEAK FLOW = 0.78 CFS-(0.0860 IPH)

AT T = 2.56 HRS

12" CMP adequate

0

0

TIME (Hrs.)

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