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Norman H. Bangerter
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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

March 5, 1993

Mr. Richard H. Allison, Jr. P.E.
Amax Coal Company, Belle Ayr Mine
2273 Bishop Road
P. O. Box 3005
Gillette, Wyoming 82717-3005

Dear Mr. Allison:

Re: NOV 92-39-7-1 Abatement Plans, AMAX Coal Company, Castle Gate Mine,
ACT/007/004, Folder #3, Carbon County, Utah

The Division has completed a review of your plans for the abatement of NOV 92-39-7-1, which was written for failure to maintain Ditch 7B. This letter is written to inform you that your proposed designs meet the regulatory requirements. However, a few necessary details need to be provided in order for the designs to be implemented properly. Please refer to the enclosed technical memo which discusses the additional requirements. You should address the remaining requirements by no later than May 5, 1993 to insure that the designs can be fully approved and implemented by the June 30th deadline for abatement.

Please call me or Sharon Falvey if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Daron R. Haddock".

Daron R. Haddock
Permit Supervisor

Enclosure

cc: S. Falvey
S. Demczak, PFO
DITCABAT.AMA



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February 22, 1993

TO: File

THRU: Daron Haddock, Permit Supervisor

FROM: Sharon Falvey, Senior Reclamation Hydrologist ^{SKK}

RE: Castle Gate Area Refuse Pile NOV 92-39-7-1 Recommended Denial, Price River Complex, AMAX Coal Company, Castle Gate Mine, ACT/007/004, Folder #2, Carbon County, Utah.

SUMMARY

In accordance with stipulation under Docket 91-001, AMAX Coal Company has submitted revised plans on November 10, 1992 and December 16, 1992. The Operators' submittal is in response to the meeting held on October 20, 1992 and previous reviews. This review, however, is directly related to designs presented to abate NOV 92-39-7-1. A complete review of the remaining refuse pile drainage will be forthcoming.

ANALYSIS

The Operator proposed design for ditch CGD-7 (lower) based on the maximum flow expected for the Final Operational Design. The current proposal uses the Type "b" methodology to determine peak flows. This method generally results in peak flows approximately 2/3 smaller than the values obtained by the SCS Type II methodology used in previously approved designs. The final result is that the Operator has provided designs that meet the regulations, but result in less conservative peak flow values assuming all other conditions have remained the same. However, the proposed ditch size will exceed the design for the Operators determined peak value during current operational and final reclamation phases.

The Operator presents designs for riprap and gravel. The regulations require engineering design standards to be met, therefore the Operator will need to provide durable riprap that is angular in form.

It is not clear how far the Operator proposes to extend the design for the lower ditch section at this time. The Division assumes the ditch reconstruction will continue to the upper most portion delineated for CGWS-D2D on the refuse pile. The Operator needs to provide a discussion of how the upper most portion of the work will be completed and how

and when the Operator will provide for continuation of the design of CGD-7 as the pile progresses to its final elevation.

With the proposed design the resulting excavation will be approximately 4.96' deep and 18.1' from the centerline. Because the proposed design is intended as the final reclamation design, the construction is considered critical. The Operator is requested to be in contact with the Division and have a Division employee available during the construction periods for final grading, during riprap and gravel placement, and at final construction. R645-514.200 for Refuse Piles requires inspection by a certified engineer or specialist during construction of final drainage plans and a certified report.

RECOMMENDATION

The Operator has demonstrated the proposed geometric designs meet the regulatory requirements. However, a few necessary details must be provided prior to implementation of the designs. The Operator should be informed this review pertains only to ditch CGD 7 (lower). The following lists the information necessary prior to approval for construction:

1. Map the area where the proposed design will be implemented.
2. Provide a discussion of how the upper most portion of the proposed ditch design work will be completed and tied into the existing design. (A longitudinal cross-section across the junction of the two designs provides good information.)
3. Provide a discussion on how and when the Operator will provide for continuation of the design of CGD-7 as the pile progresses to its final elevation.
4. Commit to using durable angular rock.
5. Commit to informing the Division of construction dates giving adequate advance notice to have an inspector available during construction. Be aware of the inspection requirements of R645-514.200, and the extent of excavation required to meet riprap and filter design requirements.

cc: Paul Baker
Randy Harden
CASTGATE.D&F