



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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October 13, 1988

TO: Susan Linner, Permit Supervisor

FROM: Mike DeWeese, Reclamation Hydrologist *MD*

RE: Lease U-054762, Genwal Coal Company, Crandall Canyon Mine,
ACT/015/032, Folder # 2, Emery County, Utah

SYNOPSIS:

The proposed Lease (U-054762) area has been reviewed regarding hydrologic criteria. This expansion of the current mining operation will require no changes in the existing surface facilities. There are no perennial streams overlaying the new lease area. Therefore, no new impacts to the surface water regime directly related to mining in the new area should occur. The following analysis addresses concerns regarding the groundwater regime of the mine area.

ANALYSIS:

UMC 817.52 Hydrologic Balance: Surface and Ground Water Monitoring

The operator has submitted a basically sound plan for ground water monitoring. However, the ground water information supplied in the MRP is technically inadequate to identify aquifer characteristics required by UMC 783.15. The Division has determined that the operator must install two bore holes in the mine to provide additional ground water monitoring points (UMC 783.15 Ground Water Information - DWD).

Based on the addition of these wells and the need to identify more detailed aquifer characteristics, the proposed ground water monitoring plan is technically inadequate. The operator must submit a revision to the MRP which incorporates the two in-mine wells into the existing monitoring program described in section 7.1.6 of the MRP. The location of the wells must be included on an appropriate map.

Page 2
Genwal Lease
ACT/015/032
October 14, 1988

The sampling procedure for ground water monitoring is not included in the MRP. The operator must include a narrative describing the standard sampling procedure to be implemented in the monitoring program. This procedure should include a commitment to purge the well of stagnant water by removing 3-5 casing volumes prior to collecting any samples.

RECOMMENDATIONS:

Deficiencies exist in the submitted MRP which prevent a thorough technical analysis of the ground water regime in the mine area. These deficiencies must be addressed prior to a final approval decision by the Division.

cc: B Team
B47/28-29