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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

March 21, 1990

Mr. Richard Denning  
Permit Coordinator  
Consolidation Coal Company  
12755 Olive Boulevard  
St. Louis, MO 63141

Dear Mr. Denning:

Re: Approval, Amendment, R/O Lagoon Certification, Consolidation Coal Company, Emery Deep Mine, ACT/015/015-90A, Folder #3, Emery County, Utah

The submittal received March 12, 1990, regarding the above noted permitting action was reviewed and found to be complete and adequate by Randy Harden and Mike DeWeese of the Division's technical staff.

The Division hereby approves the above referenced action. Thank you for your cooperation in this matter. The eight copies you have already submitted are being distributed to the appropriate agencies.

If you have any questions, please call Lynn Kunzler or me.

Sincerely,

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

Daron R. Haddock  
Permit Supervisor

cl  
cc: J. Helfrich  
L. Kunzler  
D. Bray  
BT46/3



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March 15, 1990

TO: Daron Haddock, Permit Supervisor

FROM: Randy Harden, Sr. Reclamation Engineer *RH*

RE: Pond 4 Certification for Reconstruction, Emery Deep Mine, Consolidation Coal Company, ACT/015/015-89C, Folder #2, Emery County, Utah

SUMMARY:

Consolidation Coal Company submitted to the Division on March 12, 1990, the as-built designs and certifications for the Reverse Osmosis Evaporation Lagoon Pond #4. This information was submitted to the Division in consideration of a permit defect, requiring the certification of the design and the construction of impoundments under UMC 817.49(h).

Information presented in the submittal appears to be adequate to meet the requirements for certification of impoundments.

ANALYSIS:

UMC 817.49 Hydrologic Balance: Permanent and Temporary Impoundments

Pond #4 is considered to be a temporary impoundment for use during life of mine operations. Upon cessation of mining operations, the operator has presented plans for reclamation of this facility in accordance with the requirements of the regulations.

Design of the pond is outlined in the certified as-built report. The pond is utilized as a reverse osmosis evaporation lagoon to treat brine discharge from the reverse osmosis water treatment system. The pond is designed only to handle treatment plant water and not surface runoff or surface drainage treatment.

Design of the pond is sufficient to treat 2920 GPD of brine, with the pond area of approximately 45,100 square feet. The average pond depth is 12 inches and the embankment height is 3.5 feet, allowing for 2.5 feet of freeboard. Both upstream and downstream slopes of the embankment are 3h:1v and the embankment top width is 12 feet which falls well within the SCS criteria for small dams and embankments.

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Pond 4 Certification for Reconstruction  
Emery Deep Mine  
ACT/015/015-89C

A certification statement by Ervin Andersen, P.E., dated 3/9/90, states that Pond #4 has been constructed according to the approved design with the exception of minor changes as described in Chapter 13.3.1 of the Mining and Reclamation Plan.

These designs and certifications are considered sufficient for approval by the Division and the proposal as submitted by the operator should be incorporated into the text of the Mining and Reclamation Plan.

cc: D. Darby  
BT17/21-22