



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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January 24, 1994

Mr. John A. Gefferth, Group Leader  
Consolidation Coal Company  
12755 Olive Boulevard  
St. Louis, Missouri 63141

Re: Response to Division Order #93B, Consolidation Coal Company, Emery Deep Mine, ACT/015/015, Folder #3, Emery County, Utah

Dear Mr. Gefferth:

The Division has completed a review of your submittal dated December 15, 1993 which was intended to satisfy Division Order #93B. The majority of your submittal is considered acceptable for amending the Emery Deep Mining and Reclamation Plan, however there are a few items which need clarification before we can approve the changes and incorporate them into your plan. Following is a list of the identified deficiencies.

- 1) Duplication of information under the sections on Alternative Sediment Control and Sediment Control Exemptions is confusing; therefore, the later section should be removed from the plan.
- 2) All maps should be updated, including Plate VI-10, to reflect the proposed changes to the surface drainage controls.
- 3) If spillways are added to berms, the berms may be classified as impoundments and all pertinent impoundment regulations will need to be addressed.
- 4) Ditch 3A and Ditch 6 should be included in Section VI.B.1.

In order to bring Division Order #93B to closure, please provide a response to the noted deficiencies by no later than February 22, 1994. You should provide your completed cross reference to the R645 regulations at the same time. Enclosed is a copy of the technical review memo which may help you in formulating a response to the deficiencies. Thank you for your help in resolving this issue. Please call me or Steven Johnson, Reclamation Hydrologist, if you have any questions.

Sincerely,

Daron R. Haddock  
Permit Supervisor

Enclosure

cc: S. Johnson  
J. Helfrich  
DO93BRES.EME



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January 12, 1994

TO: File

THRU: Daron Haddock, Permit Supervisor

FROM: Steven M. Johnson, Reclamation Hydrologist *SMJ*

RE: Response to Mid-Term Review, Division Order #93B, Consolidation Coal Company, Emery Deep Mine, ACT/015/015, Folder #3, Emery County, Utah.

## SUMMARY

Consolidation Coal Company submitted proposals addressing requirements 1 through 4 in response to Division Order #93B. The permit updates include changes to Pond #8 (requirement 1), and reclassification of necessary small area exemptions to alternate sediment control areas (ASCA) with designs incorporated (requirements 2 and 3). A cross-reference sample relates the MRP to the R645 regulations (requirement 4). The proposed changes were reviewed in January 1994.

## ANALYSIS

**R645-301-120**

**Permit Application is Clear and Accurate**

### Proposal:

Alternate sediment control measures have been applied or proposed for all area listed in the plan under "Sediment Control Exemptions (SCE) of Small Areas." These areas are now listed in the section VI.B.3, "Alternate Sediment Control"; however, the operator has not removed the items from the first section. A statement at the beginning of the SEC section explains that all items are now considered areas treated by alternate sediment control.

In providing sediment control for some areas previously described as exempt, drainage controls at the refuse disposal area will be modified. First, a collector ditch, Ditch 3A, was designed to route runoff from Borrow Area BA-1 into Ditch 3, and ultimately into Sediment Pond 7. Second, a ditch with check dams was proposed to run along side Subsoil Stockpile S-2 to collect runoff off this stockpile. The check



dams are the primary sediment control for this runoff. These new ditches are marked on Plate II-2, Structures and Facilities: Refuse Disposal Area.

Pond 8, formerly part of the part of the mine yard area catch basins, was added to the list of sedimentation ponds under section VI.B.2, Sediment Control. Section VI.B.3, Alternate Sediment Control, was change to reflect only one remaining mine yard catch basin after Pond 8 was identified. A partial list of cross-references has been provided as a sample, linking the current MRP to the R645 regulations.

**Analysis:**

Retaining information in the SCE section causes confusion because it describes exemptions as area with alternate sediment control measures. Clearly, this should be removed because it repeats the ASCA definition. Listing each area in both sections of text is also confusing.

Proposed ditches 3A and 6 are clearly marked on Plate II-2; however, they were not delineated on all applicable maps. Plate VI-10, Surface Drainage Control Map, does not reflect the addition of these ditches to the plan.

All necessary corrections were made in reclassifying Pond 8; however, the exact location of the remaining catch basin is unclear. The sample cross-reference list appears adequate and a complete list should be submitted.

**Deficiencies:**

1. Duplication of information under the sections on Alternative Sediment Control and Sediment Control Exemptions is confusing; therefore, the later section should be removed from the plan.
2. The operator should update all maps, including Plate VI-10, to reflect the proposed changes to the surface drainage controls.

**R645-301-732**

**Sediment Control Measures.**

**Proposal:**

The operator proposes to make alterations to many of the sediment control structures. Primarily, the changes include the addition of spillways to berms currently in the MRP. Some additions berms are slated for construction around ASCA's with

no berm or berms partially encompassing the area currently in place. New berms are planned for the Existing Borehole Pumps number 1, 2 and 3.

The spillways are designed to pass the 25-year, 24-hour storm event, and the berms are designed to contain the 10-hour, 24-hour storm event. Spillways are proposed for the berms at the following sites:

1. 4 East Portal - Topsoil Stockpile;
2. Topsoil Stockpile T-3;
3. Borehole Pump No. 1;
4. Borehole Pump No. 2;
5. Borehole Pump No. 3;
6. Revegetation Test Plot; and
7. Soil stockpiles at Pond 006.

**Analysis:**

Spillways are proposed for the sediment control berms because they are being considered impounding structures. To deem these as such, all impoundment regulations would apply to them, such as certification, inspections, discharge permit, etc. (See R645-301-732.100.)

The addition of berm designs, pertaining to dimensions, volume of water treated, and treatment area, are an improvement to the current plan.

**Deficiencies:**

1. If spillways are added to the berms they should be classified as impoundments and all pertinent regulations should be addressed.

**R645-301-742.300          Diversions.**

**Proposal:**

Two new diversions were proposed. Ditch 3A is proposed to rout water from Borrow Area BA-1 to Ditch 3 and on to Pond 7, and Ditch 6 is proposed for sediment control off subsoil stockpile S-2.

**Analysis:**

Plans were included for ditches 3A and 6 but these ditches are not included section VI.B.1, Overflow Diversions.

**Deficiencies:**

1. Ditch 3A and Ditch 6 should be included in section VI.B.1.

**RECOMMENDATION**

The majority of changes in this amendment are technically acceptable and should be approved with a few minor modifications. However, the addition of spillways in the sediment control berms is considered premature and incomplete. The Division is currently developing a directive on Sediment Control. This directive will define a minimum size of impoundment and clarify alternate sediment control measures as they are being used in this case. This section of the amendment (pages 29 through 80 of Appendix VI-8) should not be considered for approval until after the release of the Sediment Control Directive. At that time the operator may want to make alterations to this section. Otherwise, the inclusion of designs for the sediment control methods is an appropriate addition to the plan.

REPDO93B.MEM