

0021



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

# 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

January 25, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: William J. Malencik, Reclamation Specialist *WJM*

RE: Division Order 91B, PacifiCorp, Cottonwood/Wilberg Waste Rock Site, ACT/015/019-DO-91B, Folder #2, Emery County, Utah

The above Division Order identified six issues concerning the waste rock site. The permittee has completed actions as noted below which brings the waste rock site in agreement with the Utah Coal Mining Regulations.

## Issue #1

The drainage design off the top of the refuse pile was not configured in such a manner so as to have positive controlled drainage. Plate 4-14, Drawing CM-10877-WB was updated to provide for proper drainage design off the top of the refuse pile.

Recommendation - PAP amendments noted above be approved.

## Issue #2

An additional outslope diversion needed to be included for proper controlled outslope drainage. Ditch SRC was designed and shown on Plate 4-14.

Recommendation - Pap amendment noted above be approved.

## Issue #3

The diversion on the east side of the refuse pile has heretofore been designed, correctly reflected in the PAP, and approved, but not constructed. The diversion was constructed August 28, 1992 and subsequently observed in routine field inspections by the Division. No follow-up action is required.

**Issue #4**

Reconsider other alternative for sediment storage. The permittee explained that the problem identified in the Division Order resulted from (1) an exception since two ponds at Cottonwood/Wilberg Mine and the Des-Bee-Dove Mine pond were all cleaned at the same time; and (2) that the material was stored adjacent to the waste rock sediment pond.

Recommendation - When the Division receives a cleanout plan for the sediment ponds as part of that plan, storage considerations should be considered at that time should exception type situations exist in the field that cannot be forecasted at this time.

**Issues #5 & #6**

Evaluate the stability of the refuse pile where it interfaces with the sediment pond (#5) and evaluate the size and function of the terraces (#6).

The stability analysis performed by RB&C Engineering, Inc. has been completed. A copy of the complete report provided to the Division recommended several changes. Such changes have been incorporated in the PAP in order to achieve a proper stability and are summarized as follows:

- \* Slope changed from 2:1 to 2.5:1; re: overall slope.
- \* Offset berm after the third level be increased from three feet to eight feet.

Recommendation - The revised PAP pages shown in the transmittal letter of January 13, 1993 and attached thereto be approved. Subsequent field inspections must validate that the new approved designs noted above are implemented in the field.