

0021

December 8, 1987

TO: File

FROM: Kent Wheeler, Reclamation Hydrologist *KW*

RE: Determination of Completeness; New Ventilation Portal,  
(submitted November 25, 1987) Convulsion Canyon Mine,  
Southern Utah Fuel Company, ACT/041/002, Sevier County,  
Utah

Summary:

The above-referenced plan was reviewed and found not to be complete. The operator does not address the runoff which would be produced during mining and reclamation. Furthermore, the plan does not address the possibility that this portal could become the discharge point for intercepted ground water after the mine has been closed down.

Determination of Completeness:

UMC 817.42 Hydrologic Balance; Water Quality Standards and Effluent  
Limitations - KW

This section has not been adequately addressed. Since the disturbed area at the breakout is small (1/4 acre), it qualifies for a small area exemption and does not need to be passed through a sedimentation pond. However, sediment control practices are still needed at the site. The Division feels that a berm around the outside of the pad area, of sufficient height to contain the expected runoff, and revegetating the outslopes of the pad would be sufficient sediment control during mining. During the reclamation phase, a variety of Best Management Practices (BMP's) will work. The BMP's that the operator will use should be clearly outlined in the submittal.

Page 2  
ACT/041/002  
December 8, 1987

The use of a berm will require that it be shown on the site map. This site map should also contain a cross-section of the pad area (to determine slope), the berm (to show berm height), and the outslope (to determine slope).

UMC 817.50 Hydrologic Balance: Underground Mine Entry and Access  
Discharges - KW

This section has not been adequately addressed. The applicant needs to show that this portal will not become a discharge point after the mine has been abandoned. If gravity drainage is a possibility at this portal, then the applicant needs to show mine seals that allow for the passage of water and a designed channel down to the canyon bottom.

jr  
cc D. Darby  
S. Linner  
R. Summers  
1239R/83:84