

0014



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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October 4, 1990

**TO:** Daron Haddock, Permit Supervisor

**FROM:** Rick P. Summers, Senior Hydrologist *RPS*

**RE:** Review Modified Ventilation portal designs (received September 17, 1990), ACT/041/002-90D, Convulsion Canyon Mine, Southern Utah Fuel Co., ACT/041/002, Sevier County, Utah

**Summary:**

The above reference submittal is a revision of a portal breakout approved by the Division in 1988. The hydrology review was performed at that time by Division employee Kent Wheeler. That approval did not include the proposed two culverts for the project designed to pass the 100 yr. - 24 hr. precipitation event. The approval did include the use of alternative sediment control measures for sedimentation control.

Conversations with Wes Sorensen of Sufco (9/25/90) verified that the only hydrology related changes proposed with this submittal will be the enlargement of the pad from 0.25 acres to 0.5 acres and the proposed installation of the culverts. This increase will not affect the previous alternative sediment control area approval.

The culvert and peak flow designs were not submitted and therefore, no review of these designs was done at this time. These designs should include peak flow calculations with assumptions, culvert capacity calculations, outlet velocity and energy dissipator designs, and inlet protection and trash rack installation details.

Reclamation plans for the removal of the culverts and restoration of the channels were also not submitted. These should be submitted for review and approval. I do not recommend approval for this proposal relative to surface water hydrologic concerns.

RPS/jbe  
cc: Dave Darby  
BTSUFCOBRE