



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 10, 2000

TO: Internal File

FROM: Michael Suflita, Reclamation Hydrologist & Project Lead *MS*

RE: Replacement of Swale SW-2, Canyon Fuel Company, LLC, Skyline Mine, ACT/007/005-AM00A

SUMMARY:

On June 1, 2000 the Division received an amendment proposing to replace swale SW-2 with three, 18-inch culverts. The Division sent a response on June 19, 2000 and received a second submittal on July 17, 2000. This Technical Memo is a review of that latest submittal. There are no deficiencies resulting from this review and the amendment can be approved.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: R645-300-730

Analysis:

The location of the proposed change is at the upper entrance to the mine, about 30 feet from the main highway. The swale has been broken due to weather and traffic. This results in difficulty when vehicles enter the minesite. The amendment is to replace the concrete swale with three 18-inch culverts. The inlet to the culverts would be a concrete box catching surface runoff and directing it into the culverts. The concept looks workable. The drainage areas and resulting runoff are derived from the original submittal, Section 6 of Volume 5. The design storm remains unchanged and the two drainage area flows are added to determine the culvert size and capacity. The Manning n shown is appropriate for a corrugated metal culvert that is to be used.

TECHNICAL MEMO

Dwg. 3.2.1-1 Mine Surface Facilities, Plot Plan has updated to show SW-2 removed and culverts in its place.

Findings:

The submittal meets minimum regulatory requirements.

RECOMMENDATION

The submittal can be approved in its present form.

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