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

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September 24, 1996

TO: File #2

THRU: Joe Helfrich, Permit Supervisor *JH*

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

RE: Mod. To Chapter 3, Sec. 3-4, Castle Gate Mine, Amax Coal Company,
ACT/007/004-96J, File #2, Carbon County, Utah

OPERATIONAL HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Three temporary culverts are proposed and are shown on Exhibit 3.4-2B. The designs show that they are all 24 inch culvert that will run just over 50 percent full during the design storm flow. No riprap has been included in the outlets of these culverts because flow is less than 5 feet per second and the culverts will be in place for a short time.

Findings:

The amendment meets the requirements of the regulations.

RECOMMENDATIONS

This amendment should be approved as submitted.

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