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

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September 19, 1989

TO: Susan Linner, Permit Supervisor

FROM: Mike DeWeese, Reclamation Hydrologist MD

RE: Stipulation Response, Amendment, New Surface Facilities, Soldier Creek Coal Company, Soldier Canyon Mine, ACT/007/018-89B, Folder #2, Carbon County, Utah

SUMMARY:

The Division has reviewed the operator's response to conditional approval stipulations, received September 18, 1989. The operator has addressed the stipulated conditions, however technical deficiencies still exist. The Division considers the stipulations to remain outstanding at present.

ANALYSIS:

UMC 817.43 Hydrologic Balance: Diversions and Conveyance of Overland Flow, Shallow Ground Water Flow, and Ephemeral Streams - MMD

The undisturbed drainage diversion design above the portal pad has been revised for the lower reach identified in the Division's conditional approval comments. The operator's revised design will utilize a 12 inch diameter culvert extending from the exploration road crossing to the stream confluence (beyond the channel riprap). This culvert has been demonstrated to safely convey the design storm runoff of 1.16 cfs. However the culvert location identified on the submitted Attachment C, Appendix C will require diverting the flow direction approximately 120 degrees at the culvert inlet and again at the outlet. The operator must therefore revise the culvert design to realign the culvert orientation or include elbows at the inlet and outlet to reduce the confluence angle to 30 degrees or less.

UMC 817.44 Hydrologic Balance: Stream Channel Diversions - MMD

The operator has revised the riprap apron design at the stream channel diversion outlet. The revised page 29E of 29 states that the apron "shall be installed to a minimum length of 34 feet from the culvert inlet." The Division assumes that the reference to "inlet" is a typo and the apron length will actually extend a minimum of 34 feet beyond the culvert outlet, as identified in the Division's review calculations. The operator must clarify this discrepancy.

RECOMMENDATIONS:

The Division recommends that final approval of the New Surface Facilities Amendment be denied until the operator has adequately addressed the aforementioned deficiencies.

BT98/89-90