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State of Utah
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May 26, 1994

Memo to: File Through Darron Haddock *NQZ*

Memo from: Scott Milovich *SM*

RE: Verification of Sunnyside Surface Drainage, NOV N93-32-2-5 and N93-32-3-8 Abatement Plan, Sunnyside Coal Company, Sunnyside Mine, ACT/007/007, File #2 Carbon County, Utah

Synopsis

On May 16 and 17, 1994, Pete Hess and myself field checked the size and location of the culverts at the Sunnyside mine to compare them with the maps submitted 11/19/93 in response to NOV's N93-32-2-5 (Certified Maps) and N93-32-3-8 (Drainage Controls).

ANALYSIS

The culverts that were checked were accurately represented on the maps. In checking the culvert sizes shown in the plan versus measured in the field, one, RC7-3 in the Manshaft area, was undersized (6" in the field, 8" in the plan). The plan also designates at least one culvert, RC3-1, as inadequate to handle the design storm flow. Overall the maps and the plan correspond to each other and represent what is in the field. Several randomly selected culverts were checked to verify proper sizing. The culverts checked were sized properly as per the method used. However, in the operators calculations a Slow Response Hydrograph was used to determine peak flow. In this situation it may have been more appropriate to use a Medium Response Hydrograph which would increase peak flow significantly in the culverts checked.

All maps reviewed have been certified by J. Michael Elder with a Colorado State registration.

Recommendations

The maps reviewed adequately represent the culverts in the field.

