

November 5, 1986

TO: File

FROM: Randy Harden *RH*

RE: NOV #85-4-15-1, Abatement Response Plans received on September 20, 1985, As built plans recieved on October 31, 1986, Soldier Creek Coal Company, Soldier Canyon Mine, ACT/007/018

Soldier Creek has submitted as built plans to the Division in response to a violation concerning failure to construct sediment pond according to approved mine plans. These abatement plans modify the existing plan by placing additional riprap material on the toe of the outslope of the sediment pond and in the perennial stream channel.

The as built plans plans and modifications provided are adequate to meet the requirements for sediment pond design, stream channel design and slope stability as required in the Regulations with the following variances:

UMC 817.46 Hydrologic Balance: Sedimentation Ponds

- (m) The combined upstream and downstream side slopes of the embankment shall not be less than 1v:5h, with neither slope steeper than 1v:2h. Slopes shall be designed to be stable in all cases, even if flatter side slopes are required.

Variance:

The combined slopes of the sediment pond are not 1:5 as required in the regulations, however stability analysis of the constructed sediment pond indicates a factor of safety for the inslope of the pond at 2.6 and the outslope of the pond as 2.4 which are well in excess of normal required factor of safety of 1.5.

cc: W. Hedberg
S. Linner
101OR-90

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