November 1, 1978

Memo to File:

Re: Consol-Emery Deep Mine
~~Sediment~~ pond design
ACT/015/015

James R. Murray, Senior Engineer and Tim O'Connor, Mining Engineer from Consol, and Michael J. Taylor, Project Manager from D. Appolonia Consulting Engineers, Inc. met with Jim Smith and Mike Thompson on the afternoon of November 1, 1978 concerning proposed sediment ponds for the Emery Deep Mine.

Preliminary plans were reviewed and two pond design and site alternatives were discussed. The first design would not utilize diversions for runoff from undisturbed areas. However, berms would be used adjacent to the stream channels. Two ponds would be constructed. The larger would collect runoff from the surface facility area and the undisturbed area. A small depressed coal storage area on the main pad would not drain into the pond, but the runoff would be self-contained and evaporated. The second pond would be located in the isolated coal storage yard. The larger pond would have NPDES permit and if necessary would receive overflow from the smaller pond. The larger pond is located near the stream channel and would be rip-rapped.

The second design alternative utilizes diversions in addition to culverts under the pad. This would reduce the pond wolume required.

I expressed an opinion that if adequate room is available and additional land disturbance is not significant the first design alternative is preferable. This design does not include diversions and culverts which would have to be periodically maintained. Mr. Murray stated that the first design alternative is also more compatable with Consol's operation.

Mr. Murray stated that upgrading of the berms and the pad will begin this week, but he will contact this office, and obtain approval, before construction of the ponds commence. Final plans will be submitted in approximately one week.

K. MICHAEL THOMPSON
ENGINEERING GEOLOGIST
K.M.T.

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cc: O.S.M., Denver