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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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June 19, 1989

TO: Richard V. Smith, Permit Supervisor

FROM: Tom Munson, Reclamation Hydrologist *pgl for TM*

RE: Coal Refuse Pile Calculations, Cyprus-Plateau Mining Company, Starpoint Mine, ACT/007/006, Folder #2, Carbon County, Utah

## Synopsis

The Division analyzed the field data collected on May 12, 1989, for all ditches associated with the Coal Refuse Pile. This analysis was included in a May 17, 1989 memo to Richard V. Smith from Tom Munson. Plateau Mining Company formally submitted the calculations for the same ditches with some variations based on a more detailed analysis by their consultant, Hansen, Allen and Luce, Inc., on June 16, 1989.

This memo reviews the revised calculations to determine if the PAP has been properly updated and the calculations that were submitted are correct.

## Analysis

The peak flows calculated by Plateau were based on a design storm precipitation of 2.0 inches for the 100-year, 6-hour storm. The Division used a precipitation value to calculate peak flows of 2.2 inches. This change is acceptable and the peak flow calculations submitted by Plateau are shown on Table 76A, 76B, 77A, and 77B, and all ditches and culverts are shown on Map 42A and 42B. This information has been reviewed and determined acceptable and insertable into the PAP. All calculations and changes to the Division's field data have been reviewed and approved. The changes made by Plateau accurately reflect what exists in the field.

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Memo to R. V. Smith  
ACT/007/006-89D  
June 19, 1989

Recommendations

The additional copies of Map 42, Table 76 and 77, and the supporting calculations must be submitted to the Division for distribution to the appropriate agencies. Once these copies are received, the plan can be considered approved.

djh  
AT5/44-45