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July 28, 1992

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Thomas Munson, Senior Reclamation Hydrologist *TM*

RE: NOV N92-26-2-1 Termination of NOV, Cyprus Plateau Mining Corporation, Star Point Mine, ACT/007/006, Folder #2, Carbon County, Utah

Synopsis

On July 6, 1992, the Division received a submittal from Cyprus Plateau Mining Corporation showing abatement measures for NOV #N92-26-2-1 and a request for an extension to address all the concerns associated with the runoff conveyance from the entire pile and address any additional concerns with other aspects of the pile. On July 9, 1992 the Division sent the operator a letter asking for corrected diversion calculations, by July 7, 1992, using the 100-year/6-hour storm event by July 7, 1992. A modification of the NOV was made on July 14, 1992 changing the portion of the operation to which the NOV applied to read as only ditch 81 on Map 731.720b. On July 9, 1992 the Division received a revision update to the 100-year/6-hour storm event calculations. The Division reviewed and terminated the NOV on July 27, 1992. Map 731.720b gives the pertinent information regarding the ditch designs and lining requirements and will be part of the permit application.

Analysis

Ditch 81 was sized to handle the 100-year/6-hour storm precipitation of 2.0 inches and a drainage area of 10 acres. Ditch 81 will be considered a dynamic ditch changing as the configuration of the refuse pile changes. Since erosion has been noted in the calculations, then the operator will install 1.0 foot of riprap with a D100 of 18 inches, D70 of 15 inches, D50 of 12 inches, and a D10 of 4 inches. One foot of Type II granular filter blanket will also be required.

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Recommendation

The abatement to the NOV be approved and Map 731.720b be inserted into the plan. The construction of the ditch be completed no later than September 15, 1992.

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