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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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July 1, 1992

**TO:** Pamela Grubaugh-Littig, Permit Supervisor

**FROM:** Henry Sauer, Senior Reclamation Soils Specialist *HS*

**RE:** Incidental Boundary Change - Safety Concern, UTU-64263, Cyprus Plateau Mining Corporation, Star Point Mine, ACT/007/006, Folder #2, Carbon County, Utah

## SYNOPSIS

The permittee has informally responded to the deficiencies enumerated in my June 11, 1992 memo with regards to meeting the requirements of R645-301-624.320. Mr. Ben Grimes, representing Cyprus Plateau Mining Corporation (CPMC), faxed a copy of my memo to the Division (received June 24, 1992), with the addition of hand written references to text, maps, and tables located in the Permit Application Package (PAP).

It is this writers assumption that the PAP references included are intended to address the Division's concerns regarding the characterization of the stratum immediately above and below the coal seam, for the purposes of identifying the acid- and/or toxic-forming and alkalinity producing potential of the material in the vicinity of the proposed entries on the west side of the Bear Canyon Graben.

Subsequent to review of the information provided in the PAP the Division finds that CMPC has not adequately fulfilled the requirements of R645-301-624.320 for the proposed incidental boundary change (ICB).

## TECHNICAL ANALYSIS

Sufficient geologic information regarding the acid- and/or toxic-forming and alkalinity producing potential of the stratum to be removed in the vicinity of the proposed entries has not been provided. The entries are outside of the approved permit area.

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Laboratory analysis of roof and floor samples #CVR-1-C and #86-119-WD-C indicate unacceptable concentrations of hot water soluble selenium (as set forth in the Divisions Guidelines for the Management of Topsoil and Overburden, Table 2) in the Wattis floor. These samples are approximately 1500 and 4000 feet away from the proposed entries, respectively. Spatial variability in the depositional environments present during the formation of the stratum, as well as variability encountered in the current hydrogeologic setting requires further analysis of the acid- and/or toxic-forming and alkalinity producing potential of the stratum to be removed. Accurate estimates of the physicochemical nature of this material cannot be generate given the absences of data available in the immediate vicinity of the ICB.

#### RECOMMENDATION

The permittee must commit to the physicochemical characterization of roof and floor material and/or the stratum to be removed from the development of the proposed entries. The permittee describes (original IBC proposal) drilling an exploration drill hole in the vicinity of the entries. The permittee should take this opportunity to sample and analyze the roof and floor and/or the stratum to be removed within the ICB.

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