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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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July 19, 1989

TO: Richard V. Smith, Permit Supervisor

FROM: Henry Sauer, Reclamation Soils Specialist *H.S.*

RE: Mid-Term Stipulations 817.71-.74-(1)-(PGL/DD/RVS),  
Disposal of Underground Development Waste and Excess  
Spoil and Non-Acid and Non-Toxic Forming Coal  
Processing, Cyprus-Plateau Mining Company, Starpoint  
Mine, ACT/007/006, Folder #2, Carbon County, Utah

## Synopsis

Plateau Mining Company (PMC), in a letter addressed to the Division of Oil, Gas and Mining (July 5, 1989) proposed a plan to fulfill the requirements of Stipulation 817.71-.74-(1)-(PGL/DD/RVS).

PMC has submitted plans for a pre-reclamation refuse pile sampling scheme to determine acid- and/or toxic-forming potential of the refuse, and mitigation measures employed to cover said material. The plan has been reviewed and continues to be inadequate.

## Analysis and Recommendations

To avoid further redundant correspondence and discussion regarding the sampling and reclamation plan for the refuse pile, it is herein recommended that Stipulation UMC 817.71-.74-(1)-(PGL/DD/RVS) dated August 5, 1987, be revised as follows:

### Stipulation 817.71-.74-(HS)

1. Cyprus-Plateau will conduct a refuse pile monitoring program, at least two years prior to topsoil redistribution in the following manner:

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(a) A grid system encompassing the entire surface of the refuse pile will be laid on 300 foot centers. If acid and/or toxic or alkaline-producing materials are encountered through the initial sampling procedures, sub-samples will be taken at 150 foot intervals or a lesser distance to identify the extent of the suspect high level containment.

(ii) At each sample site the refuse will be sampled at 0-6 inches, 6-12 inches, 12-24 inches, 24-36 inches, and 36-48 inch depths.

(iii) At a minimum, the following constituents will be analyzed for each depth-segregated sample: Selenium, Acid-Base Potential [to include Pyritic-Sulfur percent and Organic-Sulfur percent], Electrical Conductivity, Sodium Adsorption Ratio [SAR], Boron, and pH. Laboratory methodologies of the above constituents will follow those procedures outlined in Table Six of the Division's Guidelines for Management of Topsoil and Overburden.

(iv) If acid and/or toxic alkaline-producing is identified, a total cover depth of four feet of non-combustible, non-acid, non-toxic and non-alkaline producing material will be utilized to cover the said acid and/or toxic or alkalinity producing materials.

(v) Based on current results obtained from the revegetation test plots, the upper 10 inches of the four feet of non-acid, non-toxic, and non-alkaline producing material shall be comprised of topsoil material. The total depth of topsoil redistributed may vary in accordance to future test plot results.

djh  
cc: J. Leatherwood, DOGM  
AT23/36-37