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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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September 25, 1989

TO: Susan C. Linner, Permit Supervisor
FROM: Henry Sauer, Reclamation Soils Specialist 
RE: New Surface Facilities, Soldier Creek Coal Company, Soldier Canyon Mine, ACT/007/018-89(B), Folder #2, Carbon County, Utah

SYNOPSIS

The response to the Division's technical review has been submitted (September 18, 1989) and reviewed. One completeness issue regarding overburden and underburden exist.

ANALYSIS

Analyses of the acid-base potential for overburden and underburden has been reported using standard units. However, an acid potential of 0.95 tons CaCO_3 /1000 tons material and 0.88 Tons CaCO_3 /1000 tons material respectively, equates to a % sulfur content of approximately 0.03% sulfur. These values are unusually low.

Neutralization potentials of 0.64 (overburden) and 0.71 tons CaCO_3 /1000 tons material are also unusually low.

The Division believes that the above mentioned values of tons CaCO_3 /1000 tons material are in fact % total sulfur and % CaCO_3 .

RECOMMENDATIONS

The Division recommends that the New Surface Facilities Amendment be disapproved until such time that the applicant submits the following overburden and underburden data: sulfate-sulfur%, pyritic-sulfur%, organic-sulfur%, % CaCO_3 .

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