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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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October 11, 1989

TO: Richard V. Smith, Permit Supervisor
FROM: Henry Sauer, Reclamation Soils Specialist *HS*
RE: **Technical Analysis Addition UMC 817.48, Quitchupah Lease Tract Addition, Southern Utah Fuel Company, Convulsion Canyon Mine, ACT/041/002, Folder #2, Sevier County, Utah**

Synopsis

The analyses of roof and floor samples (Drill Hole #89-18-1 and 89-20-2) has been submitted and reviewed. The following comments must be incorporated into the Quitchupah Lease Tract Addition Technical Analysis.

UMC 817.48 Hydrologic Balance: Acid- and Toxic-Forming Materials-(HS)

Existing Environment and Applicant's Proposal

All underground development waste produced within the Quitchupah Lease Tract Addition will be disposed of in Southern Utah Fuel Company's (SUFCO) waste rock disposal site (Volume 10, page 15).

Quarterly, composite samples of the waste rock material will be collected from active areas within the waste rock disposal site and analyzed for the acid- and/or toxic-forming potential. All identified acid- and/or toxic-forming materials (ATFM) will be buried within 30 days after the material is first exposed on the mine site (Volume 9, page 28). The applicant has committed to submitting a mitigation plan to the Division for approval within 30 days of receipt of the acid- and/or toxic-forming potential analysis.

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A minimum of 45 inches of suitable soil will be redistributed on the waste rock disposal site (Stipulation Responses, Waste Rock Disposal Site, September, 1988).

The applicant has submitted acid- and/or toxic-forming potential analyses from the advance drill holes No. 89-18-1 and No. 89-20-2.

Compliance

Data derived from advance drill holes indicate an unacceptable sodium adsorption ratio (SAR) for the floor material extracted from Drill Hole No. 89-20-2 (SAR=25.13).

The Waste Rock Disposal and Reclamation Plan should be adequate to prevent sodic material from contacting a large portion of the root zone. However, if quarterly sampling and analyses of the material stored in the waste rock disposal site indicate wide-spread suspect SAR levels and/or unacceptable concentration of other constituents (including, but not limited to, Selenium, Boron and Electrical Conductivity), then the applicant must derive an adequate mitigation plan.

The applicant is in compliance with this section.

Stipulations

None.

djh
AT97/24-25