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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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June 6, 1989

TO: Richard V. Smith, Permit Supervisor

FROM: Henry Sauer, Reclamation Soils Specialist *HS*

RE: Technical Deficiencies, Beaver Creek Coal Company, C. V. Spur Preparation Plant, ACT/007/002, Folder #2, Carbon County, Utah

## UMC 817.22 Topsoil: Removal-(HS)

The applicant indicates the potential for "future topsoil removal" (PAP, page 3-18). The applicant must describe the size, sequence, and timing of any new disturbance.

Provide a topsoil mass balance table which shall include the following: volume of topsoil within the storage stockpiles; disturbed acreage; and the volume of topsoil material required to redistribute topsoil material over the entire disturbed area.

The applicant proposes utilizing disturbed land fill as a substitute topsoil. Preliminary data (PAP, page 8-27) indicates poor material below twelve inches. Exclude this material from consideration as substitute topsoil. Determination of reclaimability for the proposed substitute topsoil material will be based on success or failure of disturbed land fill revegetation test plot(s). The test plot(s) must be identified on Plate 8-1. Additionally, the applicant shall submit for inclusion in the PAP, seedbed preparation and planting methods, seed mixture, as well as vegetation monitoring methods (i.e., frequency of monitoring, parameters analyzed, etc.), and success standards.

## UMC 817.23 Topsoil: Storage-(HS)

The applicant shall submit an as-built survey of the soil stockpiles. This survey shall include the volume of material, maximum and minimum height, slopes, and all pertinent dimensions.

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Additionally, the applicant must commit to reseeding the topsoil stockpiles in the fall of 1989. Please submit seed mixture, seedbed preparation and planting methods employed to revegetate topsoil stockpiles. Please contact Division staff members for possible seedbed preparation and planting methods.

**UMC 817.24 Topsoil: Redistribution-(HS)**

The applicant states that ..."Preparation of material will consist of removing contaminated material such as rocks and coal fines from the immediate surface of disturbance area" (PAP, page 3-56). Please explain how this will be accomplished and the machinery employed.

The applicant commits to deep ripping of regraded spoils (PAP, page 3-56). Please specify the depth of ripping.

**UMC 817.25 Topsoil: Nutrients and Soil Amendments**

The applicant commits to soil analysis of redistributed topsoil for determining fertilizer types and rates. Please specify laboratory and field sampling methodologies and constituents to be analyzed.

djh  
AT23/31-32