



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

July 6, 1988

TO: Sue Linner, Permit Supervisor  
FROM: James Leatherwood, Reclamation Soils Specialist  
RE: Reclamation Drainage Design, North American Equities,  
Little Snider Canyon, Blazon #1 Mine, ACT/007/021, Folder  
No. 2, Carbon County, Utah

The July 1, 1988 submittal of the reclamation drainage design of Little Snider Canyon has been reviewed. The submittal does not include a soil or revegetation reclamation plan. A soil and revegetation plan specific to the Little Snider Drainage reclamation should be incorporated within the text of the design report. The Division recommends that the drainage design and the Final Closure and Reclamation Plan be modified to include the following comments.

Reclamation Plan

The reconsolidated Final Closure and Reclamation Plan includes plans to redistribute topsoil in the Little Snider Drainage. However, due to the shortage of soil material required to cover and revegetate the underground development waste, it is advisable not to topsoil Little Snider Drainage and use the topsoil as a topdressing over the soil material that will cover the underground development waste.

Drainage Design

The outslopes of Little Snider Drainage will require specific soil/revegetation handling. The Division proposes that the operator remove the sod from the existing topsoil stockpile and place it where the soil for revegetation is delineated on the riprap on Plate 3. This operation should be done only immediately prior to topsoil redistribution. The remaining exposed soil in the Little Snider Drainage should then be seeded, fertilized, hand raked, and then covered with a tacked down biodegradable (wood fiber) erosion blanket.

as  
cc: R. Harden  
R. Summers  
1342R/45

November 9, 1987

TO: File

FROM: James S. Leatherwood, Reclamation Soils Specialist *JS*

RE: Final Reclamation Soils Analysis and Amendment Plan, North American Equities, Blazon Mine, ACT/007/021, Folder #2, Carbon County, Utah

In accordance to the approved reclamation plan permit, soil samples will be taken and analyzed to evaluate the proper level of fertilizer treatment. On November 2, 1987 (telephone conversation) Mel Coonrod and I discussed concerns to the soil analysis and fertilizer plan. We established a soil analysis and amendment plan based on climatological time constraints with on-going reclamation. Soil samples are to be taken after soil redistribution. The fertilizer is to be distributed at the same time as the arboreal transplanting in the spring.

The approved plan called for the soil to be sampled after soil redistribution. All but 75 percent of the nitrogen was to be applied this fall. The remaining nitrogen fertilizer was to be distributed in the spring. However, due to the length of time required for soil analysis and the potential threat of snowfall, there would be no time to establish an environmentally sound fertilizer plan. If a plan could be established, it would be probable that most of the water soluble nutrients would leach through the soil and pollute ~~Chalk~~ <sup>Mud</sup> Creek. Vegetation would not establish until the spring of next year. There would be no vegetation to take up the nutrients. Therefore, soil samples will be taken from representative sites (as described in the plan) and analyzed. The Division will work with the operator to establish an effective fertilizer amendment plan to be implemented during the arboreal transplanting the following first spring.

djh  
cc: M. Coonrod  
A. Smith  
S. Linner  
1342R/2