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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
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March 12, 1987

Ms. Barbara Filas
Summit Minerals Inc.
221 West 2100 South
Salt Lake City, Utah 84115

FILE COPY

Barb
Dear Ms. Filas:

Re: Technical Deficiency Review, Reclamation Plan, Summit Minerals
#1 (Blackhawk) Mine, PRO/043/001, Summit County, Utah

The Division has reviewed Summit Minerals' Response to Initial Completeness Review, received December 23, 1986. The Reclamation Plan was determined to be complete on January 23, 1987. The Division has reviewed the complete plan for technical adequacy. Several technical deficiencies have been found as detailed in the attached review document.

When these deficiencies have been adequately responded to, the Division can prepare a Technical Analysis of the application and a Decision Document, in preparation for issuing a Reclamation Permit.

Please contact myself or Susan Linner if we can provide any assistance.

Sincerely,

L. P. Braxton
L. P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

SCL:jvb
cc: R. Hagen
S. Linner
1144R-1

Technical Deficiencies
Summit Minerals Inc.
Summit Minerals #1 Mine
(Blackhawk Mine)
PRO/043/001
Summit County, Utah

March 12, 1987

UMC 817.11 Signs and Markers - SCL

The applicant has addressed signs and markers on page 5 of the Response to Initial Completeness Review received December 23, 1986. The information provided is adequate. However, it must be incorporated into the text of the Reclamation Plan.

UMC 817.23 Topsoil: Storage - JSL

Page one (1) of the Reclamation Appendix discusses the contemporaneous reclamation of topsoil stockpiles. However no topsoil stockpiles exist at the mine area. Page one (1) of the Revegetation Appendix must be revised.

UMC 817.25 Topsoil: Nutrients and Soil Amendments - JSL

Page 783.21-5 of the Reclamation Plan refers to the Division's suggestion to incorporate alfalfa into the soil. However, the operator does not commit to do such. The alfalfa must be incorporated into the soil during ripping and disk-harrowing of the in situ soil material. The addition of this material will meet the requirements for nitrogen fertilization and enhance the physio-chemical characteristics of the soil.

On page eight (8) of the Revegetation Appendix, the operator includes a mulch of native hay at the rate of 2000 lbs/ac. If the native hay contains 100 percent straw, an additional 70 lbs of nitrogen fertilizer must be applied to each acre. The nitrogen requirement would be reduced 17.5 lbs/ac for each 500 lbs of alfalfa contained in the native hay. The operator must commit to this fertilization plan to maintain the carbon nitrogen ratio.

UMC 817.50 Hydrologic Balance: Underground Mine Entry and Access
Discharge - DD

The application should describe the angle of the mine drift and the probability of gravity discharge of water from underground workings.

UMC 817.52 Hydrologic Balance: Surface and Groundwater
Monitoring - RS

On page 783.16-19 the applicant needs to define the parameter for the last graph on the page.

On page 784.14-2, the applicant should add settable solids and total dissolved solids to the parameter list to be sampled.

On page 784.14-3, the applicant should add language that commits to checking the single stage sampler(s) immediately following each precipitation event.

On page 784.14-3, the applicant should add total suspended solids to the parameter list to be sampled during the construction periods.

UMC 817.103 Backfilling and Grading: Covering Coal and Acid- and
Toxic-Forming Material - JSL

The applicant's proposal of three (3) feet of fill cover over the coal waste is not acceptable. The applicant must place four (4) feet of fill material over the coal waste.

UMC 817.121 Subsidence Control: General Requirements - DD

The applicant has not addressed subsidence issues or post mining land use in the event subsidence should occur. It is the opinion of the Regulatory Authority (RA) that subsidence of the overburden could occur due to the unconsolidated nature of the material behind portal No. 2. Therefore, the RA will require plans for mitigating potential effects from subsidence and subsidence monitoring.

UMC 817.132 Cessation of Operations: Permanent - LK

Pursuant to this regulation, all structures, facilities, etc. must be removed and the affected areas permanently reclaimed unless approved otherwise by the Division. In order for the Division to approve the retention of the two existing buildings, the access road and bridge, the applicant must submit written comments from the land owner that these structures are suitable for, and will facilitate his intended postmining land use and that he will accept responsibility for them.