



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

0019

May 29, 1984

*AM/10/15/025  
#2*

Mr. Wendell J. Owen  
Co-Op Mining Company  
P.O. Box 1245  
Huntington, UT 84528

Dear Mr. Owen:

Enclosed is the summary of deficiencies which formed the basis for the Division's Determination of Incompleteness regarding Co-Op's Bear Creek Canyon permit application.

If you have any questions regarding this memorandum, please contact me.

Best Regards,

*Dianne R. Nielson*  
Dianne R. Nielson  
Director

DRN/mjm  
Enclosure  
cc: M. Coonrod  
R. Daniels  
M. Boucek  
B. Roberts

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M E M O R A N D U M

May 11, 1984

TO: Dianne R. Nielson, Director  
FROM: Mary M. Boucek, Permit Supervisor/Reclamation Biologist *JWS Cor MMB*  
SUBJECT: Incomplete Response - Bear Canyon Mine

The technical staff has compiled a brief synopsis of the completeness and adequacy of Co-op Mining Company's response, received April 30, 1984 to the Division's March 1984 Determination of Completeness/Technical Deficiency (DOC/TD) document for the Bear Creek Canyon Mine. The following outlines the status of the response to each regulation as enumerated in the March 1984 DOC/TD document. It should be noted that the staff's review of the April 30th response constituted a completeness review, not a technical review, and consequently does not address technical deficiencies under the performance standards of the permanent program.

UMC 771.23 Permit Applications: General Requirements for Format and Contents

The applicant has completely addressed this requirement

UMC 783.12 General Environmental Resources Information

The applicant has completely addressed this requirement.

UMC 783.13 Description of Hydrology and Geology: General Requirements

The applicant has completely addressed this requirement. However, as this is a general requirements section, please see comments under UMC 783.15 and 783.16 for specific completeness determination.

\*UMC 783.15 Ground Water Information

The applicant has not completely addressed this requirement. Though the applicant presented a literature search, no site specific information has been presented. The applicant has not sufficiently addressed this requirement to enable that a positive completeness determination be made.

UMC 783.16 Surface Water Information

The applicant has completely addressed this requirement.

UMC 783.17 Alternative Water Supply Information

The applicant has completely addressed this requirement.

UMC 783.19 Vegetation Information

The applicant has completely addressed this requirement.

UMC 783.21 Soil Resource Information

The applicant has completely addressed this requirement.

\*UMC 783.22 Land Use Information

The applicant has not completely addressed this requirement. Land productivity data obtained from the Soil Conservation Service (SCS) were not presented.

UMC 783.24 Maps: General Requirements

The applicant has completely addressed this requirement.

\*UMC 783.25 Cross-Sections, Maps and Plans

The applicant has not completely addressed this requirement. The following remains incomplete:

- (a) The elevation and locations of test borings and core samplings were not supplied.
- (c) Columnar outcrop sections denoted on Figure 2 in Appendix 6-A have not been located and identified on a map.
- (d) A coal cropline map was submitted but strike and dip of the coal to be mined was not addressed.
- (f) The extent of subsurface water on Plate 3-4 was not characterized in a cross-section.

The remaining items, (e), (g), (h), (i) and (l) were completely addressed.

\*UMC 783.27 Prime Farmland

The applicant has not completely addressed this requirement. A letter from the SCS was not submitted as part of the MRP.

UMC 784.11 Operation Plan: General Requirements

The applicant has completely addressed this requirement.

UMC 784.12 Operation Plan: Existing Structures

The applicant has completely addressed this requirement.

\*UMC 784.13 Reclamation Plan: General Requirements

Though the applicant completely addressed this requirement regarding deficiencies outlined in the March 1984 DOC/TD document, the applicant's submission of additional information April 30, 1984 changed what had been submitted and was complete prior to March 1984, thus rendering the MRP incomplete with reference to part (b)(4) of this regulation, the use of a soil substitute.

\*UMC 784.14 Reclamation Plan: Hydrologic Balance

The applicant has not completely addressed this requirement. The applicant has not provided maps, plans and cross-sections to depict postmining drainage patterns. Clarification of a statement in the MRP regarding "horizontal drainage patterns," a postmining drainage map, cross-sections depicting postmining topography and drainage, specific measures for stabilizing reclaimed drainage channels and details on measures proposed for reclamation of the main stream channel where it is currently culverted were not submitted as required. The previous MRP had proposed a log check dam configuration for reclaiming the Bear Canyon stream channel. This proposal was removed by the April 30, 1984 response and the only inference to reclaiming the stream channel is the depiction of eight-inch riprap shown on Plate 3-2.

UMC 784.16 Reclamation Plan: Ponds, Impoundments, Banks, Dams and Embankments

The applicant has completely addressed this requirement.

UMC 784.17 Protection of Public Parks and Historic Places

The applicant has been given an extension to June 30, 1984 to complete the requirements of this section.

UMC 784.19 Underground Development Waste

The applicant has completely addressed this requirement.

\*UMC 784.20 Subsidence Control Plan

The applicant has not completely addressed this section. A survey of renewable resource lands has not been presented. The applicant's assessment of the effects of potential subsidence on renewable resource lands has not

been included. NOTE: the issue of renewable resource lands was raised under the heading UMC 784.20 in the February 24, 1983 and August 31, 1983 DOC/TD documents. This issue was inadvertently omitted from the March 1984 DOC/TD document by the Division.

\*UMC 784.22 Diversions

The applicant has not completely addressed this requirement. The map delineating drainage areas cuts off certain areas, rendering it impossible to calculate the watershed area on subareas AU-1, AU-2, AU-3, AU-4, AU-5 and AU-6. The applicant has not sufficiently identified or explained the formulas used where results were taken from computer sheets or the coefficients used in calculations. No ditch cross-sections have been presented and velocities have not been shown. A table identifying riprap size based on velocity has not been presented. Format for and frequency of reporting regarding the groundwater monitoring plan have not been addressed.

\*UMC 784.23 Operation Plan: Maps and Plans

The applicant has not completely addressed this requirement. Cross-sections of disturbed and undisturbed ditches have not been submitted. Cross-sections of the Bear Canyon stream channel were not certified prior to the March 1984 DOC/TD document. The April 30th response omitted not only the certification but also the original cross-sections.

UMC 784.24 Transportation Facilities

The applicant has completely addressed this section.

\*UMC 785.19 Underground Coal Mining Activities on Areas or Adjacent to Areas Including Alluvial Valley Floors in the Arid or Semi-Arid Areas of Utah

The applicant has not completely addressed this requirement. A map of unconsolidated stream laid deposits or surface and groundwater into and through stream laid deposits has not been submitted.

MMB/btb

cc: R. Daniels  
J. Smith  
E. Hooper  
P. Grubaugh-Littig  
S. Cox  
T. Munson  
R. Smith  
J. Whitehead

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