



0004
STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 18, 1986

CERTIFIED RETURN RECEIPT REQUESTED
(P492 431 334)

Mr. Melvin A. Coonrod
Permitting and Compliance
Co-Op Mining Company
P. O. Box 1245
Huntington, Utah 84528

FILE COPY

Dear Mr. Coonrod:

RE: Significant Revision to Bear Canyon Mine, Addition of
Hiawatha Seam, Bear Canyon Mine, ACT/015/025, #3, Emery
County, Utah

The Division has reviewed the proposed change to the Bear Canyon Mine plan received on January 3, 1986. The addition of the Hiawatha Seam is a significant permit revision to the approved Bear Canyon permit pursuant to UMC 788.12(d).

Enclosed is the Determination of Completeness and Technical Deficiency comments from the review of the submittal. After reviewing these, please feel free to contact me if you should want to set up a meeting to discuss any of the comments.

In order to facilitate scheduling of staff time and allow for a prompt review of your response to the deficiencies noted, would you please have the response to update the Hiawatha Seam Revision to the Division by March 28, 1986, or notify me when you will be responding.

Thank you for your cooperation in this matter.

Sincerely,

John J. Whitehead
Permit Supervisor/
Reclamation Hydrologist

btb
Enclosure
cc: Lowell Braxton
Wayne Hedberg
Technical Review Staff
9294R-47

DETERMINATION OF COMPLETENESS AND
TECHNICAL DEFICIENCY DOCUMENT

Co-Op Mining Company
Bear Canyon Mine Revision
ACT/015/025, Carbon County, Utah

February 13, 1986

DETERMINATION OF COMPLETENESS

UMC 783.14 Geology Description - RVS

The permit revision must include:

1. Pyritic content and potential alkalinity of the stratum immediately above and below the coal seam to be mined and the clay content of the stratum immediately below the coal seam to be mined; and
2. Pyrite, marcasite and sulfur content of the coal seam.

UMC 783.15 Ground Water Information - RVS

The permit revision must include water quality data for subsurface water.

UMC 783.25 Cross Sections, Maps and Plans - PGL and RVS

- (a) The elevations and locations of test borings and core samplings related to this seam must be submitted.
- (c) A structure contour map of the Hiawatha seam and an isopach map of the interburden between the Bear Canyon seam and Hiawatha seam.
- (h) The location and extent of known workings in this mine plan area and adjacent area must be given.

UMC 784.11 Operation Plan - PGL

- (a) The increased annual and total production must be included in the narrative due to the mining of the Hiawatha seam.
- (b) A narrative explaining the construction, use, maintenance and removal of the structures associated with the Hiawatha seam amendment to the Bear Canyon Mining and Reclamation Plan (MRP) must be submitted. These facilities must be included in the surface facilities map (as noted in the cover letter from Mel Coonrod, dated December 27, 1985).

UMC 784.13 Reclamation Plan: General Requirements - PGL and EH

(b)(2) The applicant must include updated costs for the reclamation of the disturbances associated with this revision.

(b)(7) The applicant must submit plans that are designed to identify all potentially acid-forming and toxic-forming material from the Hiawatha seam. The plan must include sampling procedures, analytical data and disposal methods.

UMC 784.14 Reclamation Plan: Protection of Hydrologic Balance - RVS and TM

Ground Water

The permit revision shall contain a detailed description that includes plans for:

(b)(1) The control, in accordance with UMC 817 of ground-water drainage into, through and out of the mine plan area.

(b)(2) The treatment of ground-water drainage.

(c) The permit revision must also contain a detailed description, with appropriate drawings, of permanent entry seals designed to ensure stability under anticipated hydraulic heads developed while promoting mine inundation after closure.

Surface Water

(b)(1) The applicant must submit an accurate plan which describes the flow of surface water both into, through and out of the disturbed area affected by the revision.

(b)(2) The applicant must state how the disturbed drainage will be treated.

UMC 784.19 Underground Development Waste - PGL

The applicant must address if the development of the Hiawatha seam will entail more underground development waste. The applicant must quantify how much is expected. If a disposal area will be required then UMC 817.71-.74 must be addressed as well as UMC 784.19.

UMC 784.20 Subsidence Control Plan - RVS

The permit revision must include a detailed description of the mining method.

UMC 784.22 Diversions - TM

The applicant must delineate any diversions which will be constructed or modified within the proposed disturbed area or adjacent to it as a result of the revision and demonstrate compliance with UMC 817.43-.44.

UMC 784.24 Transportation Facilities - PGL

The applicant must submit a detailed description of the conveyor (construction, use, maintenance and reclamation) that is associated with the Hiawatha seam expansion.

TECHNICAL DEFICIENCIES

UMC 800.5 Bonding - PGL

The applicant must submit updated reclamation bonding information for the reclamation of this area.

UMC 817.41-.45 Hydrologic Balance - TM

In the area of the proposed portal, 200 ton bin and conveyor, there exists an ephemeral channel which flows to Culvert C-1D and eventually to Ditch D-50. Plans have been discussed regarding this channel, mainly in regards to alleviating a culvert clogging problem at the entrance to Culvert C-1D. The applicant must discuss if the new proposed disturbance will encroach upon this ephemeral channel or its floodplain; second, how will the outslope of the pad be protected; and, third, the applicant must submit the proposed channel improvements for this ephemeral channel prior to construction of these facilities. The applicant must also discuss measures to be implemented during construction to prevent excess erosion from leaving the construction area.

If the new pad disturbance encroaches upon the ephemeral drainage adjacent to this disturbance, then the applicant must discuss what will be done to reclaim the channel configuration which exists currently. Cross sections and longitudinal profiles of the reclaimed channel and protection measures (i.e., sized riprap, etc.) must be included in this submittal if the channel is to be disturbed.

UMC 817.52 Hydrologic Balance: Ground Water Monitoring - RVS

The permit revision must include a ground-water monitoring plan.

UMC 817.55 Hydrologic Balance: Discharge of Water Into an Underground Mine - TM

The applicant must state whether or not surface water will be diverted into the underground workings.

UMC 817.59 Coal Recovery - PGL

The applicant must address this regulation and include information and explain how coal mining activities are being conducted to maximize coal recovery while utilizing the best technology to maintain environmental integrity at this mine. Additionally, will reserves in Federal Lease U-024318 be mined? It appears that if these coal reserves are not accessed with the revision, they will be lost to recovery. Please advise.

UMC 817.61-.68 Explosives - PGL

This regulation must be addressed in terms of the development of this portal. Will any explosives be used?

UMC 817.71-.74 Disposal of Excess Spoil and Underground Development Waste - PGL

If there is excess spoil or underground development waste associated with development of the Hiawatha seam, then this regulation must be addressed.

UMC 817.101 Backfilling and Grading - PGL

The final configuration of this area after mining has ceased must be addressed. How will the hillside be backfilled and graded. What is the postmining configuration for this area? Will the pad be removed?

UMC 817.180 Other Transportation Facilities - PGL

The conveyor must be addressed in relation to design, construction, maintenance and restoration in order to prevent damage to fish, wildlife and related environmental values, and any additional contributions of suspended solids to streamflow or runoff outside the permit area.

UMC 817.181 Support Facilities and Utility Installations - PGL

The applicant must address how the coal storage bin will be designed, constructed, maintained and restored to prevent damage to fish, wildlife and related environmental values, and additional contributions of suspended solids to streamflow or runoff outside the permit area.

0675R