

ACT/015/009-88A
File #3

0027



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

March 2, 1988

Mr. Dan W. Guy, Manager
Permitting & Compliance
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Final Approval of PAP Amendment, Second Mining East of Escarpment
in Cottonwood Canyon, Beaver Creek Coal Company, Trail Mountain
#9 Mine, ACT/015/009-88A, Folder No. 3, Carbon County, Utah

On February 22, 1988, the Division received Beaver Creek Coal Company's (BCCC) amended response to our deficiency review letter dated February 11, 1988. The supplemental information has been reviewed by Pamela Grubaugh-Littig, Reclamation Engineer, and Richard Smith, Geologist of the Division's technical staff. The operator's proposal has been determined technically adequate for approval. Please refer to the attached technical memorandum for an explanation of the technical review and approval recommendation. This letter will serve as the Division's final approval for this permit change application. Beaver Creek Company has now provided all of the information required by this office to finalize this permitting action.

The Division will forward extra copies of the approved plans to the appropriate state and federal agencies to update file copies of BCCC's approved Mining and Reclamation Plan (MRP). Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Data Management Coordinator

djh

Attachment

cc: J. Dryden
R. Hagen
P. G.-Littig
8992R/36

G. Morris
P. Rutledge
J. Whitehead
P.F.O.



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March 1, 1988

TO: John Whitehead, Permit Supervisor

FROM: Pamela Grubaugh-Littig, Reclamation Engineer *pgl*
Rick Smith, Geologist *RVS per pgl*

RE: Amendment to Conduct Second Mining East of Escarpment in
Cottonwood Canyon, Beaver Creek Coal Company, Trail Mountain
#9 Mine, ACT/015/009-88A, Emery County, Utah

Materials dated January 28, 1988, Plate 1 submitted February 10, 1988, and the reply to deficiency letter submitted February 22, 1988, were all reviewed for the above-identified amendment.

Proposed second mining is delineated on Plate 3-6 and will occur in Section 36 (State Lease ML-22603), approximately 800 feet south of Section 25. Second mining will be conducted beyond outcropping Castlegate Sandstone.

The overburden as shown on Plate 1 is from 1,200 to 1,300 feet thick above the proposed area of second mining. Room entries were originally driven on 80 foot centers and 60 x 60 foot square pillars were developed. Proposed second mining will result in either leaving 40 x 60 foot pillars or 47 x 60 foot pillars and maintenance of a minimum safety factor of 1.5 for the proposed pillar sizes at the given depths. Calculations (using three methodologies) indicate proposed pillars will be relatively stable and slowly crush over time.

The maximum extent of surface subsidence will be based on a 15 degree angle-of-draw, confined within a horizontal distance of 500 feet from the area of proposed second mining and will not affect USFS lands in Section 25.

Overburden thickness and the proposed development method suggest the area above second mining will be at relatively low risk for surface manifestations of subsidence (tension cracking, catastrophic failure) and accordingly, a relatively low risk is designated for potential impacts to renewable resource lands and other environmental resources.

It is herein recommended that the above-identified amendment be approved.

djh
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