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

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January 23, 1998

Dan Meadors, General Manager  
Canyon Fuel Company, LLC  
P.O. Box 719  
Helper, Utah 84526

Re: Waste Rock Pond Calculations, Canyon Fuel Company, LLC, Skyline Mine,  
ACT/007/005-97J, File #2, Carbon County, Utah

Dear Mr. Meadors:

A review of the referenced amendment by Senior Reclamation Specialist, David Darby indicated the need to submit additional information identified in the analysis section of this memo.

**ANALYSIS**

R645-301-740 through R645-301-745 Design Criteria and Plans

An initial review of the amendment revealed that the MRP did not contain updated maps 3.2.8-A and 3.2.8-2A. Gary Taylor was notified by phone and he responded by submitting copies of the maps on January 7, 1998. The review continued using the maps. Design criteria for the sedimentation pond was based on the 10 yr- 24 hour precipitation event. Comparative calculations identified differences in drainage areas. A drainage area of 3.87 acres was calculated for the undisturbed drainage, 3.33 acres forested and 0.44 acres for the cutslope. The disturbed area was estimated to be 0.9 acres. These figures resulted in larger runoff volumes draining to the stock pond, than provided by the applicant.

The designs submitted to by the applicant need to be clarified before the analysis can be conducted. The maximum volume calculated for the pond is at the 9763 foot elevation, which specifies a volume of 0.24 ac-ft. A freeboard of 1 foot is required on all ponds, which would place the storage level at the 7962 elevation, storage volume at this level is 0.17 ac-ft, less than the total runoff volume calculated by the applicant or the Division.

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Contour elevations are not indicated on Map 3.2.8-A which are needed to identify the top of the stock pond and elevation of the discharge culvert.

The stage storage graph on Page 38 of the submittal should reflect elevations instead of feet to compare with calculations on page 37 and Map 3.2.8-A.

This information needs to be submitted.

**FINDINGS:**

The applicant needs to submit the information identified above before the amendment can be processed further.

Please respond to these deficiencies by February 6, 1998. If you have any questions, please call Dave or me.

Sincerely,



Joseph C. Helfrich  
Permit Supervisor

tat  
cc: Gary Taylor, Canyon Fuel Company  
Dave Darby  
Steve Demczak  
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