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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
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June 4, 1985

Mr. Wess Sorensen
Chief Mine Engineer
Southern Utah Fuel Company
P. O. Box P
Salina, Utah 84654

Dear Mr. Sorensen:

RE: Summary of May 24, 1985 Meeting to Discuss Restoration of Channel Through the Mine Site, Convulsion Canyon Mine, ACT/041/002, #2 and #3, Sevier County, Utah

The purpose of this letter is to summarize the conclusions reached from our May 24, 1985 meeting to discuss the channel design for restoration of East Spring Canyon Creek. With members of Southern Utah Fuel Company (SUFCO), Sergeant Hauskins and Beckwith, the Fish Lake National Forest (USFS), Office of Surface Mining (OSM), and the Division of Oil, Gas and Mining (DOGM) in attendance, we reached a tentative conclusion as to an acceptable channel design.

This tentative channel design will incorporate the following:

1. gabion drop structures for reaches 1, 2 and 3;
2. excavation to natural sandstone ledges for reaches 5 and 6 and use of the sandstone ledges for dropping the stream from ledge to ledge;
3. an evaluation of channel side slope stability to insure at a minimum a 1.5 safety factor for the side slopes on all reaches;
4. an evaluation of the hydraulics for each channel reach to insure that energy dissipation occurs and supercritical or shooting flows do not develop;

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5. the incorporation of additional gabions on top of the trapezoidal side slopes to concentrate flow to the center of the channel at each drop;
6. incorporation of rebar driven through the gabions to provide additional stability for the drop structures.

Based on our discussions at the May 24 meeting, if SUFCO provides the above information and it is found to be technically adequate, the proposed design will be found acceptable by all the agencies involved in the review. At the end of the May 24 meeting, SUFCO indicated that by approximately June 1, an estimate for the time required to prepare the channel restoration design for submittal to the various regulatory agencies would be available so that these agencies could plan for a expeditious review of the design when it comes in.

I appreciate the opportunity to meet with your staff and the various agencies. I hope that by accomplishing this we can expedite the approval for the SUFCO mine plan. If you have any additional questions, please call either myself or Sue Linner or Tom Suchoski of the Division staff.

Sincerely,



Lowell P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

btb

cc: Allen Klein
Ron Naten
Allon Owen, Sergeant, Hauskins and Beckwith
Dick Allred, Fish Lake National Forest
Dave Cline
Sue Linner
Tom Suchoski

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