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Norman H. Bangerter

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Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
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Salt Lake City, Utah 84180-1203  
801-538-5340

July 27, 1992

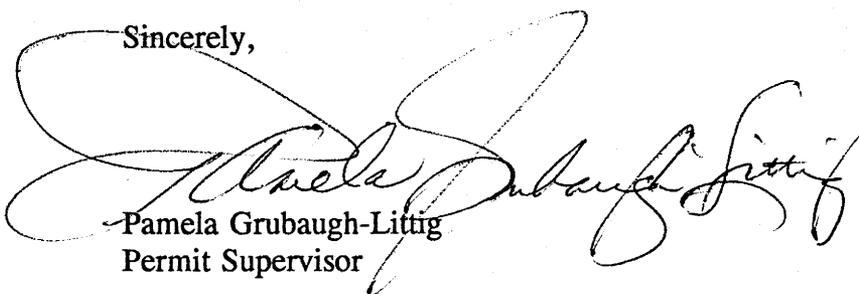
Mr. Wendell Owen  
Co-Op Mining Company  
P.O. Box 1245  
Huntington, Utah 84528

Dear Mr. Owen:

Re: Review of Diversion Revisions, Bear Canyon Mine, Co-Op Mining Company, ACT/015/025-92G, Folder #2, Emery County, Utah

Enclosed please find a memo that reviews the July 14, 1992 proposal to revise diversion specifications. Please respond to the deficiencies by August 17, 1992. If you have any questions, please call me.

Sincerely,



Pamela Grubaugh-Littig  
Permit Supervisor

pgl

Enclosure

cc: Hugh Klein



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22 July 1992

**TO:** Pam Grubaugh-Littig, Permit Supervisor

**FROM:** Hugh Klein, Geologist/Hydrologist *hk*

**RE:** Proposed Diversion Revisions For Co-Op, Bear Canyon Mine, Co-Op Mining Company, ACT/015/025, Folder #2, Emery County, Utah

*92G*

## SYNOPSIS

On 14 July 1992, the Division received a proposal from Co-Op/MEC to revise diversion specifications within the PAP. The following is an analysis of the proposed plan.

## ANALYSIS

Diversion (ditch) specifications have been revised so as to show the minimum specifications required to pass peak flows associated with the 10-year 6-hour precipitation event. All the information in regard to drainage calculations has remained the same. Co-Op/MEC has only changed the ditch specifications so as to show the minimum requirements (along with freeboard) needed to pass the design event. In many cases, the ditch will be larger than the specification, but at no time should it be smaller than specified. Even though the ditch may be bigger, it can not become enlarged due to erosion.

Ditches D-7D and D-12U each have two different sets of channel dimensions. As such, they can not be approved. If a ditch is to have a minimum set of specifications, these specifications should be valid for the entire length of the diversion.

Diversions D-9D, D-14U and the extension of D-8U are not presently part of the PAP. It is this author's understanding they are part of a forthcoming proposal. As the proposal has not yet been received, these ditches can not be approved. Once

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the proposal is received, the diversions will be considered and reviewed as a permit amendment.

### RECOMMENDATIONS

- 1) With the exception of: D-7D, D-9D, D-12U, D-14U and the extension of D-8U, all the revised diversion specifications submitted should be approved.
- 2) Information for ditches D-7D and D-12U must be revised so that there is only **one** set of channel specifications for each diversion.
- 3) Diversion D-9D, the extension of D-8U and diversion D-14U will be considered and reviewed as a permit amendment when the proposal has been formally submitted.