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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

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STATE ENGINEER

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DEPUTY

200 EMPIRE BUILDING
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DIRECTING ENGINEERS
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September 6, 1979

Mr. Thomas J. Suchoski
Reclamation Hydrologist
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Suchoski:

Re: Blazon No. 1 Mine

This office has completed its review of the Drainage Study and the Additional Information Submittal for the above mentioned mine. I am not concerned with the sedimentation ponds, as in my opinion they do not pose a threat to life or property, but the Detention Pond does concern me.

Because of the size of the pond (15 acre-feet, 20 foot embankment) and its location, it is my opinion that a failure would pose a threat to life and property at the mine site and downstream at the town of Clear Creek, Utah. I would therefore request that before construction be allowed that the final project be reviewed by this office, and that the final construction drawings be approved by me.

The following comments are directed to the embankment design and the materials used for construction:

1. I would request the flood routing for the 1,000 year 24 hour event.
2. The construction drawings do not show details of:
 - a. 42-inch outlet's bedding or cradle preparation.
 - b. screen details for the outlet or its hydraulic considerations.
 - c. cutoff collars along the outlet.
3. The riprap thickness.
4. The zones in the dam are reversed from normal practice.
5. The compaction effort is 95% by what method.
6. No material data was supplied for the soil, riprap, or foundation.

7. Will construction specifications be prepared.
8. Was a cutoff or keyway considered to tie the embankment into the foundation.
9. What will be the foundation treatment.

I realize that you are not prepared to answer the above mentioned concerns, but if you would kindly inform us as to whether we should contact the owner or if you will have them supply the information. Please keep Bob Morgan, of my staff, informed on the project.

Sincerely,



Dee C. Hansen
Utah State Engineer

DCH:RLM:sn