

## PROGRESS REPORT

Blackhawk Mine  
Summit County, Utah

Prior to the Division's issuance of an approved notice of intent to mine, the following requirements must be met by Blackhawk:

I. Protection of the Hydrologic System

Surface Water Monitoring

The Division agrees with the concept of delaying the construction of sediment ponds if (1) infiltration tests supervised by the Division of Oil, Gas, and Mining and (2) monitoring of Chalk Creek and possible runoff outside the disturbed area demonstrate that runoff and sediment do not leave the permit area. As an interim step until such tests can be conducted, the Division would require the placement of temporary berms or straw dikes at the edge of the outslope and would require that the outslope be revegetated as per the Company's commitment of January 8, 1978. Such berms should be constructed within 30 days of the Board's hearing and seeding should take place within 30 days of March 30, 1979.

If infiltration tests or monitoring shows that runoff from the site affects the quality of streamflow or runoff outside the disturbed area, the Division will require that the pad be regraded and that a properly designed and approved sediment pond be constructed within 30 days of the determination. If a sediment pond is required an NPDES permit will be required. Chalk Creek should be monitored as per the operators commitment not only for TDS (i.e. Total Dissolved Solids) but for TSS (i.e. Total Suspended Solids). The Chalk Creek should be monitored during the occurrence of runoff for both TSS and TDS.

Ground Water Monitoring

The Division feels that the ground water monitoring program as set forth in the operator's letter of 1/8/79 needs more detail in the following areas:

A. Monitoring parameters and frequency techniques and quality control.

1. Analyze water produced in the mine for TSS, TDS, PH, Iron and quantity of flow.
2. Measure mine produced water weekly for quality.
3. Measure mine produced water monthly for quality as per (1) above.
4. Springs, if discolored within the area of influence should be measured in the spring and fall or more frequently if determined by the Division.

5. Analyze spring samples for TSS, TDS, Iron and PH and quantity of flow.

B. Quality Control

1. Samples will be taken using professionally accepted, Division approved methods. The operator shall submit a description of sampling techniques to be used.

2. Analyses shall be done by a laboratory approved by the Division.

II. Surety for Reclamation in the amount of \$15,000 shall be posted within 7 (seven) days of the Division's approval of the operation.

III. Mining Activities should be suspended until the above conditions are met and the mine has been approved by the Division.