

*Blackhawk Mine
Summit Co.*

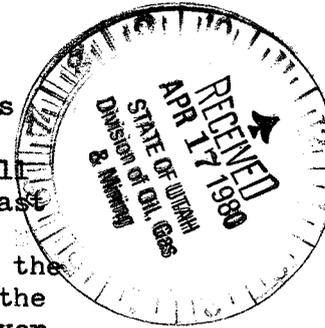
Ronald W. Daniels
Coordinator of Mined
Land Development
Division of Oil, Gas, and Mining

Subject: Request for
approval of temporary
measures to abate
degradation of mine
site surface.

It is requested that the Company be granted permission to conduct work deemed essential to the maintenance of portions of the surface of the Black Hawk mine site. This work entails measures to effect gravel retention and control of surface water run-off.

Item 1.

It is proposed to erect a retaining wall of large diameter poles along the east side of the dugway leading from portal No. 2, as shown on the accompanying map, Plate I. The purpose of this wall is to prevent sloughing of the toe of the gravel slope to the east which at present exceeds the normal angle of rest. As shown on section C-C', this slope extends for only a short distance from the toe and then flattens to the angle of repose. On Section A-A', the gradients are shown to be steep to the crest of the hill. However, the initial portion of the profile is in part bedrock and, therefore, not subject to mobility.



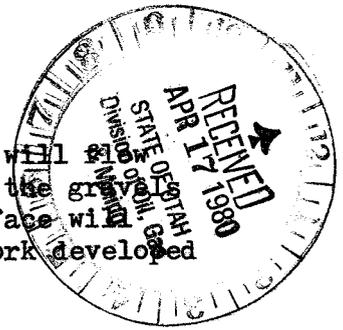
If and when excavation for the siting of portal No. 3 is completed, the finished slope will be as shown on Section C-C'. From the line of Section A-A, gravels will be removed to bedrock and the resulting highwall will wedge into the overlying disturbed gravel mantle to the south.

Item 2.

Direction of run-off is indicated on Plate I by the blue arrows. In the immediate area of concern, all run-off which might carry sediment flows to the topographic low northwest of portal No. 1. This basinal feature has a capacity of approximately 28050 cubic feet, equivalent to 0.64 acre-feet. The drainage area feeding run-off into this depression embraces no more than two acres. A four-inch rain would produce 0.67 acre-feet if the total amount ran off; an unlikely possibility.

It is proposed, as per your Department suggestion, to place keyed hay bales as indicated on Plate I to baffle and filter run-off waters that would subsequently collect in the basin. Experience shows that any waters impounded here will evaporate to dryness.

None of the run-off from the illustrated disturbed area will directly into Chalk Creek. Most will percolate through the ground into the vadose zone. That which trickles over the surface will eventually reach the creek via the normal drainage network developed by natural erosional action.



This request is not submitted as part of a permit application. The Company is not in a position to initiate mining activities at this time, but prudence dictates that measures should be taken to retard erosional processes and thus deter surface degradation.

Utah Coal & Energy, Inc.


C. Cafarelli, President
14 April 1980

Encl:
Black Hawk Mine Map; Plate I
Sections A-A; B-B', C-C'.