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STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
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4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 13, 1982

Mr. John Huefner
Kaiser Steel Corporation
Western Coal Operations
Sunnyside, Utah 84539

#3

RE: Manshaft Sediment Pond
Construction Approval
Sunnyside Mines
ACT/007/007
Carbon County, Utah

Dear Mr. Huefner:

The Division has reviewed Kaiser's latest design plans (11/29/82) for the Manshaft Sediment Pond. The most recent map of the Manshaft Area (10/25/82), delineated 32.8 acres of undisturbed drainage area, and 9.68 acres of disturbed drainage area. Kaiser plans to route the 32.8 acres of undisturbed drainage plus .68 acres of disturbed drainage directly to Grassy Trail Creek, via a ditch and natural drainage to a natural settling area near the northern end of the site. The .68 acres of disturbed acreage (11/16/82, Sheet 2) has been approved as a small area exemption and will be bermed for controlled drainage into the undisturbed system. The small amount of drainage leaving that area is routed through straw bales for initial sediment control. It is essential that these straw bales be maintained as needed. Additional sediment control is applied by routing drainage through the natural depression at the northern end of the site. This depression will be bermed with a rip-rapped outlet to provide energy dissipation and erosion control.

The following stipulations need to be adhered to, so that, sediment control can be properly maintained.

1. The drainage ditch to be constructed to route the undisturbed drainage away from the site into Grassy Trail Creek must comply with the performance standards of UMC 817.43.

2. The disturbed drainage leaving areas E and F plus the remainder of area C (11/15/82 map of Manshaft Area) will drain into the sediment pond via a road ditch, a culvert and then into the drainage ditch to the pond. Proper maintenance of the road ditch and the culvert is critical in order to provide proper routing of the disturbed drainage to the sediment pond.

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3. The Division will approve Kaiser's design plans to build a sediment pond based on the following sediment pond size 5' x 30' x 67' and storage volume of 15,424 CF.

   The criteria listed on sheet 3 (11/29/82 submittal) lists the appropriate topsoil removal, embankment construction and elevation requirements for the emergency spillway. Energy dissipators shall be installed at discharge points, where diversions intersect natural streams, and where exit velocity of the diversion ditch flow is greater than that of the receiving stream.

4. Sediment levels shall be marked on the internal slopes of the dam to represent the maximum sediment storage volume permissible. By marking both ends of the embankments, this should account for irregularities in the pond bottom and/or sediment deposition. A maximum sediment level marked 2.2 feet from the bottom of the pond, representing .0175 AC.-FT./AC. sediment criteria will be considered acceptable to the Division for the Manshaft Sediment Pond.

   This sediment level will account for the State Department of Health's regulations as well as the Divisions regulations regarding maximum sediment storage levels.

If Kaiser chooses to accept these stipulations then the Division will approve construction of the Manshaft Sediment Pond. Thank you for your time and efforts to put together an agreeable solution in this matter.

Sincerely,

Thomas Munson

THOMAS MUNSON
RECLAMATION HYDROLOGIST

TM/mn

cc: OSM, Denver
Steve McNeal, State Health
James W. Smith, DOGM
Joe Helfrich, DOGM
Wayne Hedberg, DOGM
Barton Kale, DOGM