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

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

June 29, 1982

Mr. John Huefner, P. E.
Civil Engineer
Kaiser Steel Corporation
P. O. Box D
Sunnyside, Utah 84539

RE: Kaiser's Response to
Stipulations on Coarse Refuse
ACT/007/007
Carbon County, Utah

Dear John:

In light of the discussion held during my technical inspection of the drainage control plan which Kaiser submitted in writing on April 30, 1982, I'd like to make the following recommendations.

The coarse refuse which is in place at the man access shaft appears to be stable. Runoff occurring from the access road is properly routed to a sedimentation pond. The section of the road just below the main access, which borders on the county road, was evaluated for the proposed drainage control. Two ditches are proposed, one adjacent to an old unused road where a sparse amount of coarse refuse exists, and another adjacent to the main access road. It is my belief that installation of these ditches would cause greater disturbance than could be justified. The coarse refuse on the main access road appears to be stable and any runoff which may occur is filtered by the thick vegetation on the downslope of the road embankment. Apparently, runoff from the unused road just below the man access road would pose no problem if this area could be permanently stabilized. Therefore, I recommended that Kaiser Steel rip and scarify the surface of the old road and seed it as soon as possible.

In reviewing other drainage areas where coarse refuse has been utilized, I felt the use of berms was appropriate as placed in disturbed drainage ditches. I felt, however, that the use of straw bales in natural creek channels is not the best method for dissipating the velocity of runoff. The Division of Oil, Gas and Mining would recommend the dissipation of runoff velocity at the edge of the proposed water bars prior to entering natural drainages.

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

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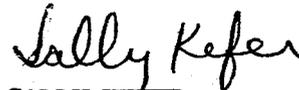
Those bales which have been installed in natural creek channels are well maintained. The Division of Wildlife Resources (DWR) recommended their use as check dams to Kaiser Steel. I stated that the Division of Oil, Gas and Mining will not agree to allowing these bales to "naturally deteriorate in the channel to provide growth media for vegetation" to use them to restrict natural erosion as this could cause excessive sedimentation to the channel (Kaiser response April 30, 1982).

The drainage plan for the new coarse refuse disposal haul road has been reviewed, however, the changes in the plan (the elimination of a drainage ditch and culvert and closing the fan in Fan Canyon, therefore, not covering the road with coarse refuse) must be submitted in writing to DOGM.

Please submit the changes which we discussed on-site in writing to DOGM so that these outstanding Board stipulation items may be completed.

Call me if you have further questions.

Sincerely,



SALLY KEFER
RECLAMATION HYDROLOGIST

cc: Allen Klein, OSM
Joe Helfrich, DOGM
Jean Doutre, DOGM

SK/btb