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

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 29, 1982

Mr. Charles J. Janne
Environmental Engineer
Sharon Steel Corporation
19th Floor, University Club Building
136 East South Temple
Salt Lake City, Utah 84111

RE: Undisturbed Drainage Control
Recommendation, Diversion
King VI Development Area
ACT/007/011
Carbon County, Utah

Dear Mr. Janne:

This letter is a follow-up to the meeting held in our office March 25th concerning Sharon Steel's latest submission of information regarding Stipulations 7-81-1 and 7-81-2.

Also discussed at the meeting was the status and tentative time frames necessary for submission of additional information pertaining to Stipulations 7-81-3, 7-81-5, 7-81-9, 7-81-11 and 7-81-12.

I will address each of these areas in order as to our understanding from the meeting:

7-81-1 (A-E)

A preliminary review of the materials submitted in response to this stipulation raises a couple of concerns in regard to the statistical t-test results presented. The Division feels that this information may be adequate, however, an on-site visit by the Division's staff may be necessary this spring to assess the reference areas first-hand.

7-81-2

In the Division's preliminary review of the general mine plan and the response to Stipulation 7-81-2 for the King VI modification, several deficiencies have been noted, with particular regards to requirements for the reclamation plan (UMC 784.13). A detailed outline of deficiencies regarding responses to Stipulation 7-81-2 (Revegetation Plan) will be forthcoming soon. Though the Division's review of the general mine plan is not yet complete, these noted deficiencies can be extrapolated to the general plan as well. A timely resolution of reclamation and revegetation plan deficiencies will be in the best interest of Sharon Steel Company and should expedite future permit approvals.

7-81-3

Mr. Jahne felt that a finalized response to the stipulation concerning ultimate haul road reclamation would be forthcoming sometime during the week of March 29-April 2.

7-81-5

An on-site visit, March 18, 1982, was conducted by the Division to assess the implementation of the as-built designs which had been received by this office. The following comments and suggestions in regard to the completion of construction activities for the undisturbed drainage structures above the King VI loadout follow:

1. A few sections were noted along both diversions where the steepness of the channel slope may present some erosive conditions at the transition points especially where the channel direction changes. These areas will warrant routine inspection, especially during and after precipitation and runoff events to correct any problems when they become evident.
2. The steep sections where the diversions empty into the natural drainage have not been addressed yet. These areas, especially the diversion draining from the east side still require the implementation of the proposed nonerosive channel end sections. These areas might be directed via culvert, half pipe, riprapped slope, etc.
3. With regard to the check dam and associated 15-inch culvert which is still under construction, this area might best be designed to handle the runoff velocities by installing the culvert in the easternmost corner of the check dam embankment. The inlet to the culvert should be adequately riprapped to prevent scouring as well as the upstream side of the embankment. A trash rack will also aid in keeping any debris from clogging the culvert. An anti-seepage collar might also warrant consideration.

Mr. Charles J. Jahne
ACT/007/011
March 29, 1982
Page 3

This area of culvert installation is preferred rather than further up the drainage, in that the channel is somewhat wider and less steep here. This will help disperse the resultant runoff thereby reducing flow velocity. There are also fewer constraints in terms of working area confinement at this location.

7-81-9

The topsoil questions are still being resolved at this time. Mr. Jahne indicated that soil samples have been taken and are being analyzed. He also stated that he is working on volume calculations and that figures thus far may reduce, or possibly negate the possible need for the proposed "borrow area." Mr. Jahne felt that a response to this stipulation may be complete and submitted within 10 days.

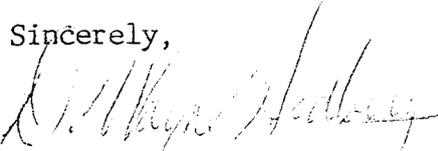
7-81-11

The final portal sealing designs in reference to the permanent closure of the King VI portals are being developed by Sharon Steel and will be forthcoming shortly.

7-81-12

Maps and/or drawings with corresponding narrative descriptions in regard to postmining topographic cross-sections and regrading plan for the diversions above King VI truck loadout, as well as an explanation for the upper sections of the conveyor route and King VI Mine yard are being completed and will be forthcoming.

If you have any comments or problems with our interpretation of the meetings outcome, please contact us at your earliest convenience.

Sincerely,

D. WAYNE HEDBERG
RECLAMATION HYDROLOGIST

cc: Richard Dawes, OSM
Tom Portle, DOGM
Mary Boucek, DOGM
Jim Smith, DOGM

DWH/btb