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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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September 23, 1986

TO: John Whitehead, Permit Supervisor/Reclamation Hydrologist
FROM: Tom Munson, Reclamation Hydrologist TM
RE: Inspection of J. B. King Mine Reclamation, Western States
Minerals, INA/015/002, Folder #7, Emery County, Utah

On September 4, 1986, Phil Ralphs and Tom Munson visited the J. B. King Mine site and noticed the following areas which need immediate attention.

1. The mine refuse pile area has numerous rills and gullies, many in excess of 9 inches which need repair. The contour furrows are breached in many places and need repair to become functional.
2. The main feeder ditch in the area between Station 8+00 to 5+30 (see Map No. 4050-514R) has experienced some extreme headcutting, in excess of six feet in places. The banks are sloughing and the headcuts are moving back up the channel. It appears that nothing short of major regrading and riprapping of this portion of the channel could potentially stop this headcutting. Grade control structures such as check dams could also be in order to reduce slopes. (See attached: Burchard Heede's paper on headcut control).
3. The feeder ditch to the south of the main feeder ditch (see Map 4050-5-14-R) has also experienced similar damage due to recent storms. Two of three rock gabions in this ditch were rendered non-functional. It is felt that this was not a practical solution to the erosion occurring within this ditch.

Other solutions to this problem, such as regrading and riprap, would provide more adequate protection and are considered necessary.

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Mitigation of these problems must be carried out prior to October 15, 1986, in order that enforcement action is not taken. An on-site meeting with the people concerned would identify the areas needing repair and the best methods for resolution of these problems by October 15, 1986, with the least harm to reclamation already established.

djh
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