



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
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August 18, 1986

Allen W. Smith
North American Equities, N.V.
Suite 1510
1401 17th Street
Denver, Colorado 80202

Dear Mr. Smith:

Re: Waste Development and Soil Redistribution, Blazon Mine,
ACT/007/021, Folder #2 and #4, Carbon County, Utah

The Division has reviewed North American Equities' (NAE) proposal dated October 17, 1985, which requests a reduction of cover material over the underground development waste during mine reclamation from 4 feet to 1 foot.

We regret having to deny this request, but an evaluation of the acid base potential shows less than -5 tons CaCO_3 /1000 tons, CaCO_3 /1,000 tons of waste material. An acid-base potential less than -5 tons of CaCO_3 /1000 tons of material is determined to be an acid- and toxic-forming material. The submitted underground development waste analytical data has an acid-base potential between -6 and -8.7 tons of CaCO_3 /1000 tons of material. This acid- and toxic- condition may be alleviated with the application of 9 tons of fine mesh limestone to the underground development waste. The addition of 9 tons of CaCO_3 will increase the CaCO_3 equivalents to a level whereby the depth of soil cover may be reduced to a total depth of 2 feet. Eighteen inches (18") of this material will consist of subsoil and the top six inches (6") shall comprise topsoil.

NAE will be required to distribute CaCO_3 proportionately to the waste material; that is, 9 tons CaCO_3 to 4,190 cubic yards of development waste.

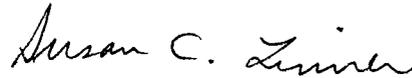
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The procedure will consist of placing underground development waste in lifts of 1 to 2 feet, then preparing the proportional volume of CaCO_3 over the volume of the lift. The lift covered with CaCO_3 shall then be ripped and compacted before the next lift is constructed. This procedure will allow for the best mixing and neutralization of acids.

This approval is for a reduction of cover material only as specified above and not an approval to reduce or change proposed post mining contours.

If you have any questions, please contact me.

Sincerely,



Susan C. Linner
Permit Supervisor/
Reclamation Biologist

DWD/djh
cc: L. Braxton
D. Darby
R. Harden
J. Leatherwood
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