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*Request  
Seed mix, 1/2 A +  
PLS.*



*Rt to m Aw  
msw  
Lill Emery  
Deep*

December 17, 1979

**Consolidation Coal Company**  
Western Region  
2 Inverness Drive East  
Englewood, Colorado 80110  
303-776-7660



DEC 24 1979

Mr. Cleon B. Feight, Director  
Utah Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

DIVISION OF  
OIL, GAS & MINING

Dear Mr. Feight:

RE: Emery Deep Mine - Revegetation of Berms

Enclosed for your information are two copies of the sprinkler system design which will be used to irrigate the berms at the Emery Mine. The map has one change in that it shows the water source as being Christiansen Wash; we now feel that our underground fresh water system will be used.

A few months ago Dr. C. Wayne Cook of the Colorado State University visited the Emery Mine site and made some suggestions as to how to improve the success of revegetation. Due to the cost of these suggestions we have been unable to proceed with this part of the compliance project until now. The berms are to be reworked to a 2:1 slope where space permits in order to give the seedings a better chance of success. A sprinkler system with automatic timers is to be installed along the top of the berm from the mine fan to the USGS gaging station. Using the sprinkler system it is hoped that the native plants will be able to grow without irrigation within three years.

We feel that this is a very aggressive approach to revegetating steep slopes in a harsh environment. The soil type varies from a blue shale to a sandy loam to a silty clay loam which all have high saline values. The steep slopes make it difficult for moisture to cling to the seedings. The sprinkler system, however, should decrease the mortality of the native seedings.

Construction work is to begin this week with final seeding in the spring. Thank you for your consideration. If you have any further questions please call.

Sincerely,

Timothy J. O'Connor  
Staff Mining Engineer

TOC:bf  
enclosures (2)

cc: Badovinac, J.; Dole, S.; Fuller, L.; Hanks, T.; Jaccaud, S.;  
Murray, J.; Thompson, R.