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ARCO Coal Comp  
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Denver, Colorado 80202  
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Environmental Services

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October 7, 1981

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DIVISION OF  
OIL, GAS & MINING

Mr. James H. Smith, Jr.  
Coordinator, Mined Land Development  
Division of Oil, Gas, and Mining  
Utah Department of Natural Resources  
1588 West North Temple  
Salt Lake City, Utah 84116

Dear Mr. Smith:

Enclosed please find the proposed temporary and permanent reclama-  
tion seed mixtures for the Huntington Canyon No. 4 Mine. These  
mixes consist of native species that occur on the site and some  
introduced species which occur on the site where the U.S. Forest  
Service has reseeded various areas.

The only grass species that I would have liked to include was salina  
wildrye (Elymus salina) which is the major herbaceous species at the  
No. 4 Mine. However, the seed for this species is not commercially  
available, so we were unable to include it in the mixtures.

The seed mix we have designed will allow for establishment of a  
variety of grass and shrub species that occur within the disturbed  
area. Salina wildrye should ultimately become established on the  
site since it is very common in the communities surrounding the  
disturbed areas.

The number of pounds per acre that we have proposed is based on  
broadcast or hydroseeding methods since the mine site consists  
mainly of steep slopes. Any areas that permit drill seeding will  
be done at half the rate listed. Trees and shrubs will be planted  
as containerized stock or bare root stock to maximize revegetation  
success.

I solicit your comments on the enclosed seed mixtures. It is  
anticipated that they will be utilized next spring or fall.

Sincerely,

David R. Chenoweth  
Environmental Coordinator

cc: Reed Christensen (U.S. Forest Service)  
David Meyer (Beaver Creek)  
Ken Wangerud

TEMPORARY AND PERMANENT RECLAMATION SEED  
MIXTURES FOR HUNTINGTON CANYON NO. 4 MINE

<u>Grass Species for Temporary and Permanent Reclamation Seed Mixtures</u>		<u>Pounds of Pure Live Seed Per Acre (Broadcast or Hydroseed)</u>
Bluebunch Wheatgrass	Agropyron spicatum	5.0
Indian Rice Grass	Oryzopsis hymenoides	2.0
Slender Wheatgrass	Agropyron trachycaulum	4.0
Streambank Wheatgrass	Agropyron riparium	4.0
Tall Wheatgrass	Agropyron elongatum	2.0
Smooth Brome	Bromus inermis	2.0
Pubescent	Agropyron trichophorum	3.0
Cicer Milkvetch	Astragalus cicer	3.0
	TOTAL	25.0

<u>Containerized or Bare Root Stock (To be used for permanent reclamation seed mixture)</u>		<u>Number per Acre</u>
Curl Leaf Mountain Mahogany	Cercocarpus ledifolius	200
Pinyon Pine	Pinus edulis	240
Utah Juniper	Juniperus osteosperma	120