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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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May 21, 1991

Mr. Walt Nowak
U. S. Forest Service
Manti-LaSal National Forest
Price Ranger District
599 West Price River Drive
Price, Utah 84501

Dear Mr. Nowak:

Re: Wildlife Resources - Requested Revision of MRP Appendix 3-15, Genwal Coal Company, Crandall Canyon Mine, ACT/015/032, Folder #2, Emery County, Utah

As per my telephone conversation with you today, I am writing to request your comments on the above-referenced seed mix additions. I have enclosed copies of the original seed mix proposal and of the recommendations made by Wildlife Resources.

Sincerely,

A handwritten signature in cursive script, appearing to read "Paul Baker".

Paul Baker
Reclamation Biologist

PB/mbm
Enclosures
cc: D. Haddock, Permit Supervisor
BT015032.CCM

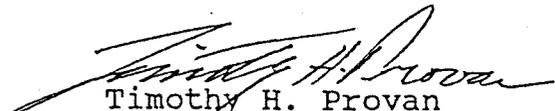
Dr. Dianne R. Nielson, Director
March 20, 1991
Page 2

such, water quality is important for the maintenance of healthy, naturally-reproducing populations. Turbidity, as measured in Nephelometric Turbidity Units (NTU), must not be allowed to increase beyond 10% of background measurements. This requirement should be indicated in Section 10.6

With reference to the proposed seed mix (Appendix 3-15), we recommend the addition of the following species: hard sheep fescue (Festuca ovina), Indian ricegrass (Oryzopsis hymenoides), Palmer penstemon (Penstemon palmeri), Rocky Mountain penstemon (Penstemon strictus), Porter licoriceroot (Ligusticum porteri), and mountain big sagebrush (Artemisia tridentata vaseyana). The sagebrush species should not be covered. It should be hydrosprayed in the seed mix slurry or broadcast over the surface before drilling or mulching. Application rates of broadcasted seed should be doubled.

Thank you for the opportunity to provide comment.

Sincerely,


Timothy H. Provan
Director

cc: Daron Haddock

Seed Mix
Genwal Coal Company
Crandall Canyon Mine
ACT/015/032
January 4, 1989

<u>Species</u>	<u>Rate*</u> <u>Lbs/Acre</u>
GRASSES & FORBES:	
<u>Agropyron smithii</u> Western wheatgrass	3.0
<u>Agropyron spicatum</u> Bluebunch wheatgrass	2.0
<u>Agropyron trachycaulum</u> Slender wheatgrass	3.0
<u>Bromus caranatus (marginatus)</u> Mountain brome	3.0
<u>Dactylis glomerata (piaute)</u> Orchard grass	0.5
<u>Aster glaucoides</u> Blueleaf aster	0.5
<u>Linum lewisii</u> Lewis flax	1.0
<u>Melilotus officinalis</u> Yellow sweetclover	0.5
<u>Sanguisorba minor</u> Small barnet	1.0
TOTAL	14.5
SHRUBS:	
<u>Symphoricarpos oreophilus</u> Snowberry	1.0
<u>Rosa woodsii</u> Woods rose	1.0
<u>Rhus trilobata</u> Squawbush	1.0
<u>Juniperous scopulorum</u> Rocky mountain juniper	1.0
TOTAL	4.0

* Rate is for Pure Live Seed (PLS) to be broadcast seeded over all disturbed area. For best results, lightly rake areas that have been seeded.

Planting Mix*
 Genwal Coal Company
 Crandall Canyon Mine
 ACT/015/032
 January 4, 1989

<u>Species</u>	<u>Plants/Acre</u>
TREES:	
<u>Picea punjens</u> Blue spruce	150
<u>Pseudotsuga menziesii</u> Douglas fir	150
<u>Pinus Ponderosa</u> Ponderosa pine	50
<u>Populus angustifolia</u> Cottonwood	75
<u>Populus tremuloides</u> Quaking aspen	75
<u>Salix geyeriana</u> Geyer willow	55
<u>Salix myrtifolia (boothii)</u> Willow	55
TOTAL	<hr/> 610

* Planting mix will be planted on the wooded area. The willows will be planted within 20 feet of drainages to assure sufficient moisture for establishment and growth.

1/4/89