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Explanation:

ENVIRONMENTAL FACT SHEET - UTAH FUEL - SKYLARK MINE.

cc:

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C1 007, 005, Incoming

- Refer to:
- Confidential
  - Shelf
  - Expandable

Date \_\_\_\_\_ For additional information



Environmental Fact Sheet - Utah Fuel - Skyline Mine

1. Culverts

- 700' - 24"
- 300' - 30"
- 100' - 36"
- 2200' - 48"
- 600' - 60"
- 900' - 72"

2. Straw Bales - approximately 400

3. Sedimentation Ponds

Portal Area - capacity 421,505 cu. ft.

Railroad Loadout Area - capacity 76,212 cu. ft.

4. Disturbance

Mine Portal Area	31.1 acres
Railroad Loadout Area	9.0 acres
Water Tank & Well Pad Areas	.2 acres
Conveyor Route	6.0 acres
Waste Rock Disposal Site	1.3 acres

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Total      47.6 Acres

5. Topsoil Stores

132,000 cubic yards

SOIL DISTURBANCE

Keith Zobel

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(2) North Facing Slopes

Grasses:

Mountain Brome (*Bromus carinatus*) 2  
Kentucky Bluegrass (*Poa pratensis*) 1/2

Forbs:

Heartleaf Arnica (*Arnica cordifolia*) 1-2  
Sweetroot, Spreading (*Osmorhiza chilensis*) 1-2  
Sticky Geranium (*Geranium viscosissimum*) 1  
Mountain Lupine (*Lupinus argenteus*) 2  
Thickleaf Sweetpea (*Lathyrus lanzwertii*) 4

Shrubs & Trees (handset Tublings at 1 - 2.5 meter intervals):

Mountain Snowberry (*Symphoricarpos oreophilus*) - 1 meter interval  
Englemann Spruce (*Picea engelmannii*) - 2.5 meter interval  
Subalpine Fir (*Abies lasiocarpa*) - 2.5 meter interval

(3) Riparian Habitat

Grasses:

Slender Wheatgrass (*Agropyron trachycaulum*) 3  
Mountain Brome (*Bromus carinatus*) 3  
Tufted Hairgrass (*Deschampsia caespitosa*) 2  
Kentucky Bluegrass (*Poa pratensis*) 2

Trees & Shrubs (handset tublings at 1/2 - 1 meter intervals):

Yellow (Watson) Willow (*Salix lutea*) - 1/2 meter interval  
Engleman Spruce (*Picea engelmannii*) - 1 meter interval  
Woods Rose (*Rosa woodsii*) - 1/2 meter interval  
American Red Raspberry (*Rubus strigosus*) - 1/2 meter interval

(4) Topsoil Stockpiles lbs/Acre

Smooth Brome (Lincoln) (*Bromus inermis*) 3/4  
Timothy or Meadow Foxtail (*phleum pratensis*  
or *Alepecurus pratensis*) 1-2  
Yellow Sweet Clover (*Meli lotus officinalis*) 1-2  
Alfalfa (Ladak or Nomad) (*Medicago sativa*) 1-2

SKYLINE MINE  
UTAH FUEL COMPANY

SOIL DISTURBANCE FOR INITIAL CONSTRUCTION OF THE SKYLINE MINE.

(1) Office, bathhouse, workshop, portal area -	31.1 Acres
(2) Water tank bench	.22 Acres
(3) Railroad Train Loadout Area	9.0 Acres
(4) Conveyor Bench	<u>6.0 Acres</u>
	46.32 Acres

The disturbed areas were seeded with an approved seed mix in the Fall of 1981 and Spring of 1982. Selected spot seeding has been done in 1983-84 and 85. During the first and second growing seasons, the revegetated areas were fertilized with 100 pounds of available nitrogen each year. Application was done in the early Spring with a cyclone seeder. The steeper slopes (1h:2v) were treated with hydro-mulched and jute netting.

Result of our revegetation has varied from excellent to very poor. The jute netting was helpful on slopes up to 65-70%. On slopes that were steeper than 65-70% the jute netting was detrimental. The netting would rot out and tear loose and slough down the slope removing any established vegetation in its path.

The hand set tublings were basically a failure except on our gentle slopes.

The species that have done the best are: Smooth brome, Orchard grass, Kentucky bluegrass, alfalfa, Thicketleaf sweetpea, yarrow, and natural invasion of quaking Aspen.

APPROVED SEED MIXTURES:

(1) South Facing Slopes

<u>Grasses:</u>	lbs/Ac
Kentucky Bluegrass ( <i>Poa pratensis</i> )	1/2
Mountain Brome ( <i>Bromus carinatus</i> )	2
Blue Wildrye ( <i>Elymus cinereus</i> )	2
Blueburch Wheatgrass ( <i>Agropyron spicatum</i> )	2
<u>Forbs:</u>	
Thicketleaf sweetpea ( <i>Lathyrus lanzwertii</i> )	4
Sticky geranium ( <i>Geranium viscosissimum</i> )	1
Mountain Lupine ( <i>Lupinus argenteus</i> )	2
Yarrow ( <i>Achillea millefolium</i> )	1/2

Shrubs & trees (handset at 1 meter intervals):

Aspen (*Populus tremuloides*) Tublings  
Mountain Snowberry (*Symphoricarpus oreophilus*) - tublings  
Big Mountain Sagebrush (*Artemisia tridentata* VAR, *vaseyana*) -tublings