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OCT 11 1988



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Engineering Inc.  
Engineers/Scientists  
7324 South 1300 East  
Suite 100  
Midvale, Utah 84047  
Telephone 801-561-1555

October 10, 1988

DIVISION OF  
OIL, GAS & MINING

Mr. Lynn Kunzler  
Utah Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Subject: Revegetation at the Blazon Mine

Dear Lynn:

Pursuant to and as explained in our conversations of October 3 and 4, 1988, and on behalf of North American Equities, Ltd., I herewith request the following changes in the revegetation efforts at the Blazon Mine (Permit No. INA/007/021):

1. The approved plan calls for broadcast seeding followed by spreading and hand-crimping mulch over most of the area to be revegetated. Due to the steepness of the slopes, I request that permission be granted to hydroseed and hydromulch the area. Procedures to be used will be as follows:
  - o Prepare seed bed as originally intended.
  - o Spray seed with a small amount of mulch added as a tracer to indicate where seed has been applied.
  - o Following seed application, apply mulch and a tackifier on a second pass. Approximately 2500 pounds of mulch per acre will be applied.
  
2. I am of the understanding that discrepancies have existed between the various seed mixes submitted for approval. Based on my discussion with you, the following seed mix will be applied at the rates indicated:

<u>Common Name</u>	<u>Rate</u> <u>(lbs pls/ac)</u>
<u>Grasses</u>	
Streambank wheatgrass	4
Slender wheatgrass	4
Mountain brome	5
Camby bluegrass	3
Kentucky bluegrass	0.25

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<u>Common Name</u>	<u>Rate</u> <u>(lbs pls/ac)</u>
<u>Forbs</u>	
Western yarrow	0.15
Sweet vetch	1
Blue flax	2
Ladak alfalfa	1
Sweet anise	1
Yellow sweetclover	2
<u>Woody Plants</u>	
Rocky mountain maple	3
Serviceberry	2.5
Mountain big sagebrush	0.1
Oregon grape	2
Blue elderberry	1
Douglas fir	1
Wax current	1
Woods rose	1.5
Snowberry	2

We appreciate your assistance and look forward to a quick response. We currently anticipate seeding to occur some time the week of October 17, 1988. We will advise you of a better date as the time approaches.

Sincerely,

*Richard B. White*

Richard B. White, P.E.  
Principal Hydrologist

cc: Alan W. Smith (NAE)  
Jill Stahl (NAE)  
William B. Prince (Holme Roberts & Owen)  
Karl Housekeeper (Site manager)

File ACT/007/021-  
89B  
pending



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**RECEIVED**  
JUN 07 1989

DIVISION OF  
OIL, GAS & MINING

June 6, 1989

Ms. Susan C. Linner  
Utah Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Subject: Weed Control Plan for the Blazon No. 1 Mine  
ACT/007/021

Dear Ms. Linner:

In accordance with your letter dated May 11, 1989 to Mr. Alan Smith of North American Equities, Inc., attached is a weed control plan for the Blazon No. 1 Mine.

If you have any questions, please contact us.

Sincerely,

*Carol A. Bjork*

Carol A. Bjork, P.E.  
Civil Engineer

Enclosure

cc: Bill Prince (Holme Roberts & Owen)  
Alan Smith (NAE)

WEED CONTROL PLAN FOR  
BLAZON NO. 1 MINE

RECEIVED  
JUN 07 1989

DIVISION OF  
OIL, GAS & MINING

**1.0 Purpose**

During a site inspection of the Blazon No. 1 Mine on May 2, 1989, the Utah Division of Oil, Gas & Mining collected straw samples from strawbales that had been used as mulch in limited areas during reclamation of the site. A laboratory analysis indicated the presence of bindweed, quackgrass and wild oats in the straw. The purpose of this weed control plan is to eliminate the spread of bindweed, quackgrass and wild oats at the Blazon No. 1 Mine.

**2.0 Procedure**

The weeds which may grow at the Blazon No. 1 Mine will be eliminated by spot spraying of herbicide or manual removal of the individual plant. If the individual plant is manually eliminated, it will be removed from the mine site. This work will be accomplished by a licensed specialist trained to identify and spray the various weed species. Those areas at the mine site which were exposed to scattered straw will be examined closely for the presence of weeds and treated if necessary. Other vicinities of the revegetated area which were not directly exposed to strawbales will be spot checked for the presence of weeds.

If the weed growth is so extensive that it cannot be controlled by spot spraying or manual removal of individual plants, the entire infected area will be sprayed with an herbicide to kill all of the plant growth. The area will be reseeded once the weeds have been eliminated.

The weed control plan will be implemented prior to the time of year that the majority of the weeds go to seed. Dr. Steven Dewey, weed specialist for the Utah State University Extension, indicated that the bindweed and quackgrass should begin flowering at the Blazon Mine site (elevation 8500 feet) during the first two weeks of July and will continue to flower all summer long thereafter. He indicated that the wild oats will probably go to seed during the first week of August. Dr. Dewey indicated that weed control during the period of July 15 - August 1 would be very effective.

Dr. Dewey also indicated that, at an elevation of 8500 feet, the weeds will probably have very low survivability. He also expected that, because the weeds are very palatable to deer, the deer would provide good control if any weeds did survive.

The weed growth will be monitored annually for five years as part of the revegetation monitoring plan defined in Section 9.0 of the As-Built Report. Weed control measures will be implemented as necessary if weeds are present.