

October 22, 1976

Mr. Ken B. Hutchinson
Chief Engineer
Braztah Corporation
P.O. Box 599
Helper, Utah 84526

Re: ACT/007/004
Braztah No. 3, 6, 7 + 8
Carbon County, Utah

Dear Ken:

We have reviewed your reclamation plan and in general, we think that it is well prepared. We do have the following suggestions and ask that you supply us with the following information:

- (1) Acreage of surface to be disturbed in;
 - a. The coal processing, storage, loading, and office/shop area in the main canyon. Include in this amount the acreage of your shaft and portal pads, plus the waste rock piles.
 - b. The total acreage of your roads and haulage ways.
 - c. Any other disturbed acreage that would have to be reclaimed.
- (2) We would like a final design map of your surface facilities showing buildings and other structures that will have to be removed when mining ultimately ceases. If there are structures and facilities left from previous operations in your present operation area that you would not be responsible for and do not want to be held for the reclamation thereof, these should be delineated on this map.
- (3) Supply a list of the total number of shafts and portals, with approximate dimensions and locations, that will need to be closed at the cessation of operations.
- (4) Supply a list of average thicknesses (with approximate maximum and minimum values) of all seams to be mined.
- (5) Submit separate revegetation schemes for the Barn Canyon waste rock pile and the main canyon processing area. These should include the methods used in;

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- a. Preparation of the planting medium such as grading, scarifying, and fertilizing,
 - b. The species to be planted,
 - c. The seed mix to be used in rate/acre,
 - d. The season to be planted,
 - e. What mulching method or soil covering method to be used,
 - f. What kind of irrigation is to be used,
 - g. What maintenance procedures to be employed to assure relative success in the revegetation,
- (6) For assured success, we would like you to have some typical growth medium samples analyzed for nutrient content so suitable species and fertilizers may be chosen.

We suggest you commit yourself to a test planting program with the enclosed species list to try out various revegetation schemes. We realize that through this kind of research the original revegetation species may change. For this reason we would be happy to aid you in this research and in preparing the information requested in item 5 above. Working closely with Brastah and Berkowitz Assoc., I'm sure a comprehensive plan can be worked out. We will visit the site to aid you in this matter as soon as possible.

- (7) We need your anticipated operation life expectancy for surety calculation.

We suggest that Brastah, A.E.P. and Berkowitz Assoc., personnel co-ordinate efforts in producing the reclamation plan. Before we visit the site (November 9th would be the earliest) we will contact you in order to have a meeting with yourself and representatives of the other firms at the site.

We are especially interested in the design of your waste rock pile in Barn Canyon and the measures you intend to employ to monitor subsidence. Do you expect any subsidence affects to show up as decreased stability of portions of the cliffs in the Price Rover Canyon?

Please contact Ron Daniels or myself if you have any questions and once again I apologize for the delay in processing your plan.

Sincerely,

Brian W. Buck
Engineering Geologist

BWB/lc

Enclosed: Suggested List of Species

cc: Alan Jenke

Braztah No. 1-5
Carbon County, Utah

SUGGESTED LIST OF SPECIES

<u>Species</u>	<u>Pound/Acre</u>
<i>Smooth Brome (Southern Variety)</i>	3
<i>Fairway Crested Wheatgrass</i>	3
<i>Indian Ricegrass</i>	2
<i>Bluestem Wheatgrass</i>	3
<i>Western Wheatgrass</i>	3
<i>Intermediate Wheatgrass</i>	2
<i>Yellow Sweetclover</i>	1
<i>Alfalfa</i>	2
<i>*Can be planted as transplants later;</i>	
<i>Utah Serviceberry</i>	1
<i>Cliffrose</i>	1