

R&MENGINEERS
GEOLOGISTS

R&M CONSULTANTS, INC.

BUSCH PARK

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June 17, 1981

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Mr. Lee Spencer
 Division of Oil, Gas & Mining
 Natural Resources Dept. of the State of Utah
 1588 West North Temple
 Salt Lake City, UT 84116

DIVISION OF
 OIL, GAS & MINING

Dear Mr. Spencer:

SUBJECT: Blazon No. 1 Mine; Carbon County, Utah

Pursuant to our phone conversation on June 16, 1981, we hereby request, on behalf of the owner, your approval to relax the compaction requirements regarding the mine spoil of the subject coal mine to be disposed in the area and in a manner as stated in our report, "Blazon Mine Fill Stability Study," dated April 23, 1981, and Addendum No. 1 to this report, dated May 11, 1981.

On June 16, we were informed by Mr. Joe Harvey of Blazon No. 1 Mine that the spalled rock from the mine shafts can be as large as 2'x3'x7'. Because of the lack of suitable equipment on site, it would be very difficult to break up these large pieces of rock to the maximum size of 8 inches and to be compacted in 12-inch loose lifts as recommended in our Addendum No. 1 to the said report.

Not to impose undue financial burden to the owner of the mine, we would like to amend our recommendations on the fill compaction requirements to allow the disposal of the large spalled rock up to 2'x3'x7' in size. Paragraph 5 on page 3 in our Addendum No. 1 to said report should thus be revised to read as follows:

"The mine waste and spoil to be disposed as the fill material should be free of organic substances, debris, frozen soils, and boulders exceeding 2'x3'x7' in size. The fill material should be compacted in 24-inch horizontal lifts to at least 90% of the maximum dry density determined by AASHTO T99-74. The largest boulders should be placed on the outer edge of each horizontal lift with their least dimension oriented in the vertical direction. Compaction adjacent to these largest boulders should be thoroughly performed without leaving voids or soft spots. In-situ density tests should be conducted frequently by a qualified person to ensure that the above fill density requirement is met."

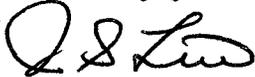
Lee Spencer
June 17, 1981

Page Two.

The 24-inch lift for the fill compaction is permitted by the Division of Oil, Gas and Mining of Utah in its "Coal Mining and Reclamation Permanent Program," Chapter I, Paragraphs 817.72(c) and 817.85(c)(1).

We trust that you would give this request prompt and fair consideration. Thank you.

Very truly yours,



J.S. Liu, Ph.D., P.E.
Senior Geotechnical Engineer

CW

cc: Joe Harvey/Blazon Mine