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May 22, 1981

Mr. Joseph A. Harvey
President
Clear Creek Star Route
Helper, Utah 84526

RE: Approval Minor Modification
Development Waste Disposal
Blazon #1 Mine
ACT/007/021
Carbon County, Utah

Dear Mr. Harvey:

The Utah Division of Oil, Gas and Mining (Division) has reviewed your two submittals: Blazon Mine Fill Slope Stability Study received May 7, 1981 and the Addendum No. 1 received May 15, 1981.

As you are aware this Disposal site is subject to the Coal Mining and Reclamation Program, Chapter I. Pursuant to UMC 817.71, "Disposal of underground development waste and excess spoil", the Division has analyzed compliance with these performance standards as well as 817.72, "Disposal of underground development waste and excess spoil".

The Division hereby approves your disposal site as designed by your consultants with the following stipulations.

Stipulation 5-81-1

The applicant must supply the Division within three months an analysis of the potential toxicity of a sample of the underground development waste, or cover the fill with four feet of the best available local non-toxic and non-combustible material. The applicant must identify the source of the four feet of non-toxic non-acidic material if it is used and an analysis for revegetation potential of all soils used as growth medium.

Stipulation 5-81-2

The applicant shall remove and segregate all topsoil and subsoil (root growth medium) available from the site prior to depositing the waste.

Stipulation 5-81-3

The applicant shall maintain the fill so that the slope above the rock toe buttress does not exceed 1h:3/4v. The top of the fill should be graded to approvimately 1v:20h (5 percent) toward the outslope and in no case steeper than 1v:20h. Cross slopes of between 1 to 2 percent must be provided to minimize erosion in the direction of the outslope.

Stipulation 5-81-4

The applicant must build a rock toe buttress along the entire length of the toe in accordance with Drawing No. 1 (R&M Consultants, Inc., 5-11-81).

OK Stipulation 5-81-5

The applicant must clear and grub all vegetation within limits of the proposed fill and the disposed fill material must be free of organic substances, debris, frozen soils, and boulders exceeding 8 inches in size (except in the buttress). The fill materials shall be compacted in 12-inch loose horizontal lifts to at least 90% of the maximum density.

Stipulation 5-81-6

The applicant shall lay a 8-inch CMP (culvert) on the ground along the existing valley to divert the runoff from the portal bench and roadway to the ditch of the lower roadway just below the toe of the fill. The applicant must install entrance and exit structures for the culvert.

Stipulation 5-81-7

To ensure compliance with the design and specifications submitted and UMC 817.71(1), the applicant shall keep a record of inspections on site signed by a qualified registered engineer for the critical construction periods:

1. removal of all organic material and topsoil;
2. placement of the rock toe buttress;
3. placement of the compacted layers of fill material;
4. revegetation;
5. placement of the 8-inch CMP.

Stipulation 5-81-8

The applicant must grade the fill to meet existing contours; and surfaces of the fill shall be planted as soon as practical with native vegetation to minimize erosion. The proposed fill shall be subject to the same revegetation standards as the existing disturbed areas.

Stipulation 5-81-9

The applicant will incorporate the plans and stipulations above into the mine plan application submitted March 23, 1981, and prepare a plan for final reclamation of the disposal site.

Stipulation 5-81-10

The applicant shall submit plans for storage or redistribution of topsoil within one month, to insure that topsoil will be protected in accordance with UMC 817.23.

Stipulation 5-81-11

The applicant will maintain the culverts, diversions, and headwalls in a condition compatable for their intended use.

Please feel free to call Mr. Leland C. Spencer, Reclamation Engineer or myself if you have any concerns or questions concerning this approval.

Sincerely,

Ronald W Daniels

RONALD W DANIELS
DEPUTY DIRECTOR

RWD/LCS/te