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April 17, 1987

TO: File

FROM: James S. Leatherwood *JSL*

RE: Topsoil Substitute Suitability Determination, Centennial Project, ACT/007/019-87A, Folder No. 2, Carbon County, Utah

Pursuant to comments outlined in this reviewer's previous memo, April 14, 1987, and discussion with Mike Glassen, (telephone discussion April 14, 1987) the April 15, 1987 submittal has been reviewed and found to adequately address all previous comments. This reviewer concurs with the BLM April 6, 1987 substitute topsoil suitability determination. I recommend that the Division approve the use of the dike soil material from decommissioned sediment pond A as a substitute topsoil resource in place of the previously designated substitute topsoil material stored at the pad site.

BODY

Dave Cline, DOGM Hydrologist has reviewed revised plate 6 and found that the diversion previously routed to pond A currently delineated to run to pond C to be adequate. Mr. Glassen stated that the topsoil material does not extend to the lower basin of the pond. Therefore, snow disposal and settled out soil sediment will not effect the substitute topsoil stockpile. A straw berm will be placed around the perimeter of the substitute topsoil stockpile for protection and definement of the topsoil border.

The phosphorus and potassium data has been analyzed. Average nutrient levels are 7.76 and 107.8 ppm for phosphorus and potassium respectfully. Phosphorus levels are considered low but would be adequate at the time of final reclamation with a phosphorus fertilizer supplement. Either dicalcium phosphate or a superphosphate must be used. The calcium supplement within these two phosphorus fertilizer forms will offset any potential magnesium induced calcium deficiencies. Potassium levels are adequate in sample 1, averaging 141.5 ppm, and low in samples A and B, averaging 85.3 ppm. A light application rate of potassium incorporated into the soil is recommended for final reclamation. The Division recommends NOT using potassium magnesium sulfate due to the 18% MgO content within the fertilizer. Potassium nitrate would be adequate as a potassium amendment.

jvb

cc: D. Darby S. Linner
 W. Hedberg H. Shepherd

0534R-86