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October 19, 1987

TO: John Whitehead, Permit Supervisor
FROM: James R. Fricke, Reclamation Hydrologist *JRF*
RE: C. V. Spur Ditch Amendment, Beaver Creek Coal Company, C. V. Spur Loadout, ACT/007/022-87B, Folder #2, Carbon County, Utah

Synopsis of Proposal

The operator has requested to amend the typical cross-section configuration for the C. V. Spur collection ditches and diversion ditch DD-1 (letter to DOGM 9/1/5/87). The amendment is in the form of a note on each plate (7-3, 7-5) stating that ditch configurations may vary but minimum cross-sectional areas will be maintained as shown.

Analysis

Division calculations show that the minimum cross-sectional areas cannot be maintained. Ditch DD-1 (Plate 7-3) has a bottom width of 30 inches and a depth of 18 inches. The cross-sectional area required (6 feet²) cannot be maintained at slopes greater than 2:1. The C. V. Spur collection ditches also require sideslopes of 2:1 to maintain the cross-sectional area with the dimensions shown on Plate 7-5.

Recommendations

The Division should not approve the amendment. The operator may want to consider regrading all affected ditches to either a triangular or trapezoidal shape meeting the cross-sectional capacity requirements. The ditch areas that have eroded in the past could be protected with loose-rock check dams.

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