



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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July 16, 1993

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TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Ken Wyatt, Reclamation Hydrologist *KW*

RE: BTCA Area 5 Amendment Review, Mountain Coal Company, C.V. Spur, ACT/007/022, Folder #2, Carbon County, Utah

SYNOPSIS

Mountain Coal Company submitted a proposed amendment to add an area within their permit area as a BTCA area in response to a request from Mr. Bill Malencik of the Division. This proposal was received by the Division on July 2, 1993, and will be reviewed in the memo.

ANALYSIS

The proposal included revised MRP pages 7-87a through 7-87b. These pages describe five BTCA areas within the C.V. Spur facility. BTCA Area 5 has been added to this list. Area 5 is described as encompassing 0.86 acres which drains the slopes of the railroad tracks below culvert C-1 down to the Y in the railroad tracks. Using the OSM's TIPS programs the area digitized at 0.72 acres.

I used input data from the MRP and this submittal to calculate peak flow and runoff volumes as follows: Area = 0.86 acres; Curve number = 87; SCS type 2 storm; 10 year 24 hour event = 1.7 inches; Slope = 2.4%; Channel length = 1650 feet. Based on this information the peak flow calculated to 0.04 CFS (18 GPM) with a total runoff volume of .05 acre feet. According to the hydrographs produced, these areas fall within the Division's guidelines for permitting BTCAs. The operator should describe how they plan to monitor effluent water quality through the silt fence structure.

RECOMMENDATION

I recommend that this proposal be approved with the condition that the operator commit to monitoring water quality as discharged through the silt fence.

