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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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October 1, 1991

To: Pamela Grubaugh-Littig, Permit Supervisor

From: Tom Munson, Senior Reclamation Hydrologist *TM*

RE: Abatement For NOV #N91-20-2-1, Part 1, Pacificorp Electric Operations, Des-Bee-Dove Mine, ACT/015/017, Folder #5, Carbon County, Utah

SYNOPSIS

On September 18, 1991, the Division received an abatement plan for NOV #N91-20-2-1. This plan discussed reducing erosion on the Des-Bee-Dove Haul Road, on the Des-Bee-Dove Junction Road fill slope area west of the sediment pond.

ANALYSIS

The following information was submitted regarding watershed, channel, and culvert design. A channel design using a bottom width of 1.5 feet, a side slope of 1.5:1, and a filter blanket design of 2 inch minus road base thickness equaling the D50, where the D50 = .67 feet. The calculations regarding watershed design and flow appeared correct. The operator failed to provide a gradation for his riprap providing a D100 and a D20 sizes for the channel design. The installation of the culvert does not include any design specifics for the installation of the culvert (i.e., buried or installed on the surface, headwall dimensions). The rock impact basin is described as a 4' by 10' basin of 1.5' angular rock. The operator must provide calculations regarding the depth of the basin. Also, velocities of 19.75 f.p.s. at the culvert outlet (figure 4) do not allow for 1.5' diameter riprap to be used. Monitoring the basin over a period of one year does not necessarily minimize erosion to the extent possible as the rules require. A viable alternative might be grouting the riprap in place.

The operator must submit a map of appropriate scale (1"=100') which shows the location of the watershed, channel, culvert, and rock lined basin.

RECOMMENDATION

When the operator supplies this additional technical information described above, the plan will be considered technically complete.

TM/jbe
ATDES BEE