



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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February 27, 1989

TO: Susan Linner, Permit Supervisor

FROM: Mike DeWeese, Reclamation Hydrologist *MD*

RE: Final Reclamation As-Built Report, North American Equities,
Blazon No. 1 Mine, ACT/007/021, Folder #2, Carbon County,
Utah

SYNOPSIS:

The Reclamation As-Built Report for Blazon No. 1 Mine received Jan. 18, 1989 has been reviewed regarding hydrologic concerns. This submittal addresses stipulations defined in the Division's Aug. 19, 1988 conditional approval document and provides final as-built information for the Blazon facilities. The submittal is not considered technically adequate at this time.

ANALYSIS:

The submitted report contains the following deficiencies:

1. Stipulation UMC 817.46 - 1 - MMD/RPS of the Division's August 29, 1988 Conditional Approval document requires the installation of sediment level markers in the sedimentation pond. The operator has responded by including a commitment to installing two sediment level markers in the in the summer of 1989 but no markers have been installed to date. Therefore, the stipulation is considered to be outstanding until the markers are in place. The operator proposes to show the 60% cleanout elevation on one marker and the maximum sediment level on the other marker. The 60 % cleanout level and the maximum sediment level must be clearly depicted on each marker. Markers must be placed near the pond inlet and the pond center such that the average sediment level can easily be determined. The operator will conduct a chemical analysis of pond sediment prior to removal and disposal at an appropriate facility.

2. The as-built information relative to the access road ditch and ditch B is not adequate. The submitted cross sections demonstrate that the diversions have been constructed larger than the proposed design and are therefore more than adequate for capacity. However the submittal does not state that the design slope was constructed at the site. The operator may elect to submit as-constructed slope information as diversion profiles showing minimum and maximum slopes or, submit maximum permissible velocity calculations which determine a corresponding maximum slope value and state that the diversions were constructed at slopes less than or equal to that value.
3. Details of the concrete box drop inlet to the culvert on Little Snyder could not be located in any of the operator's submittals. An as-built drawing must be submitted showing design details of the inlet structure including at a minimum the headwall height, width and length, and details of the weir inlet. The culvert structure design can not be approved without this information.
4. Existing riprap at the outlets of culverts B and C is inadequate (as per certifying engineers report) to provide sufficient channel protection as required by regulations.

RECOMMENDATIONS:

The Division recommends that final approval of the above referenced submittal be denied until such time as all outstanding stipulations and deficiencies have been adequately addressed.