



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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May 22, 1985

Mr. Ben Grimes  
Plateau Mining Company  
P. O. Drawer PMC  
Price, Utah 84501

Dear Mr. Grimes:

RE: Review Comments for Sediment Pond #8, Unit Train-Loadout, Star Point Mines, ACT/007/006, #2, Carbon County, Utah

The Division has reviewed the May 10, 1985 oversight response submittal from Plateau Mining Company regarding the spillway sizing for Sediment Pond #8. The following information is still deficient or missing as requested in the April 10, 1985 letter:

1. "Map #7, Sedimentation Pond #8 design drawings, shows conflicting information regarding the head on the spillway and the spillway rating curve. In the cross-section, the vertical separation between the 10-year, 24-hour level, (i.e., the top of the principal spillway and the two-inch dewatering hole elevation) is five feet. The spillway rating curve shows a vertical separation above the two inch dewatering hole of approximately 3.7 feet. This discrepancy must be corrected."
2. "Table 5, Sediment Pond #8 - Riser Pipe Rating Table, this table also shows 3.7 feet above the orifice for the dewatering hole to be the top of the riser. This is not consistent with the cross-section in Map #7 and must be corrected."
3. "The spillway rating curve shows that orifice and weir flow are controlling and notes that pipe flow is not limiting. This determination is also based on information presented in Table 5, Sediment Pond #8 - Riser Pipe Rating Table (on page 2 of the table), for a 36-inch riser pipe."

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For the above three points requested April 10, 1985, PMC has not corrected or upgraded the information in the tables and figures referenced. This information is needed for the Division to make a finding that the spillways are adequately sized and that the pond will function in accordance with the approved design plans.

The emergency spillway plans submitted May 10, 1985 are also deficient. The following information needs to be addressed:

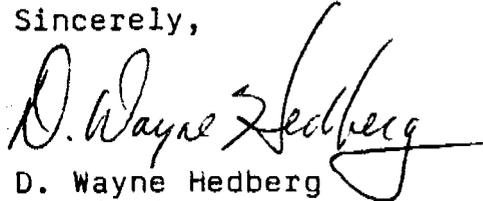
1. The location and size of the anti-seep collars proposed for the 24 inch CMP conduit must be provided. The Division needs this information to ensure that the flow length will be increased a minimum of 10%.
2. The emergency spillway is not in accordance with UMC 817.46(i). UMC 817.46(i) requires the emergency spillway crest to be a minimum of 1 foot above the crest of the principal spillway. PMC must modify the proposed design accordingly.
3. The May 10, 1985 submittal does not provide documentation that the proposed design will be capable of handling the design flow. PMC must provide a spillway rating curve for pond #8 which addresses discharge from the dewatering orifice (if included), the principal spillway, and the emergency spillway. The calculations to determine the spillway rating curve must also be provided.
4. The sizing of the energy dissipation basin must also be addressed. If the structure is part of a pre-designed dimensionless hydraulic structure please provide the design specification and references. If the structure is not a pre-designed structure, please provide the design calculations and methodology. Also provide the outlet velocity calculations for the drop-box pipe spillway, which were used in the design of the energy dissipation structure.

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Please provide a response to these remaining concerns by June 28, 1985. Upon approval, appropriate copies of the revised plans will need to be provided to update all approved MRP's on file.

If you should have any questions or concerns regarding these review comments, please call me or Tom Suchoski of the Division staff.

Sincerely,



D. Wayne Hedberg  
Permit Supervisor/  
Reclamation Hydrologist

TJS/jvb

cc: Allen Klein  
Lowell Braxton  
Joe Helfrich  
Bart Kale  
Sue Linner  
Tom Suchoski

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