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DIVISION OF  
OIL GAS & MINING

December 12, 1991

Mr. Rick Summers  
Division of Oil, Gas, and Mining  
State of Utah Natural Resources  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

SUBJECT: Modification of surface water diversion facilities: sediment level in sedimentation pond, installation of culvert C-8, design calculations for DD-5. Crandall Canyon Mine, Permit # 015-032

Dear Rick:

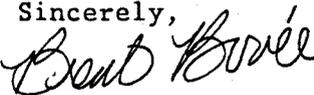
Genwal has recently paved its access road and portions of its surface pad. Consequently, a few of the surface runoff control facilities have been updated. The enclosed substitute pages to be substituted into Appendices 7-7 and 7-10 cover these diversion changes.

**Drainage Ditch DD-5.** The enclosed updated page 16 of Appendix 7-7 recalculates the weighted average curve number (CN) resulting from the added runoff due to paving of the access road and pad area. The CN is shown to not change as a result of paving, thereby showing that DD-5 is adequately designed.

**Culvert C-8.** Culvert C-8 was installed as an extension of DD-9, transmitting water from DD-9 to the sedimentation pond. An updated page 21 of Appendix 7-7 explains that the DD-9 24-in. CMP is adequate to carry flow from DD-9 to the sedimentation pond.

**Sedimentation Pond.** Due to road and pad paving, runoff that would result from the 10-yr, 24-hr storm event is increased. Updated pages 1 through 3 of Appendix 7-10 recalculate storm runoff, and present a revised sediment level to be maintained in the sedimentation pond to accommodate the increased storm runoff.

If you have any questions or comments please don't hesitate to call myself (561-1555), or Jay Marshall (687-9813).

Sincerely,  
  
Brent K. Bovee  
Geologist

cc: Jay Marshall, Genwal