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DIVISION OF
OIL GAS & MINING

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September 4, 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: Crandall Canyon Mine - modification of surface water diversion UD-3. Permit # 015-032

Dear Rick:

Enclosed please find modified plans to surface water diversion UD-3 (Plate 7-5a; Appendix 7-7). These modified plans propose replacing an 18-inch PVC pipe with a stronger 12-inch CMP pipe.

Currently the undisturbed ephemeral watershed drainage WSUD-3, directly above the Crandall Canyon portal, is diverted to the adjacent watershed to the east via an 18-inch PVC pipe. The PVC pipe is broken in one location and in need of repair. Additionally, after review the PVC pipe has been determined to be structurally incapable of handling severe storm flows.

Genwal proposes to replace the 18-inch PVC pipe with a structurally stronger 12-inch CMP pipe. Enclosed are calculations (Hydrograph Generation Model, Circular Channel) used to size the 12-inch pipe. These calculations replace those currently in Appendix 7-7 (page 11). This diversion is redesigned for the 6-hour 25-year storm event in compliance with the current mining regulations. The current inlet structure (pages 12 & 13 of Appendix 7-7) will remain in service, its 18-inch PVC pipe will be fitted to the 12-inch pipe with a concentric reducer or similar adapter.

Following replacement of the 18-inch pipe, drainage from WSUD-3 will be further modified in the near future. This future modification will entail directing storm flows underground into a dedicated sump. Design plans are currently in preparation, and will be submitted to DOGM, MSHA, and Water Rights in the near future.

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

Sincerely,

Brent Bovee

Brent K. Bovee
Geologist

cc: Jay Marshall, Randall Ralphs: Genwal