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CONSULTANTS/ENGINEERS

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FILE #

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June 1, 1989

DIVISION OF  
OIL, GAS & MINING

Mr. Tom Munson  
Utah Division of Oil Gas & Mining  
355 West No. Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

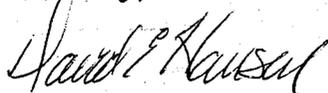
RE: Channel and Culvert design for Plateau Mine, Wattis, Utah.

Dear Tom:

As per our conversation yesterday, we are proceeding with the design of Ditch 7G which diverts water around the coal refuse pile at the Plateau mine. As verbally approved, the design will be based upon the 100 year - 6 Hour design storm as shown in NEH-4 and the most recent update of TR-60. To our knowledge there have been no changes made to the 6 hour storm distribution curve in either NEH-4 or TR-60 as confirmed in the October 1985 update of TR-60. A review by DOGM of the Farmer-Fletcher or other storm distributions (derived from Utah data) would show that the peak runoffs predicted are similar in nature to those produced by the SCS 6-hour storm, whereas those produced by a modification to the Type II curve far exceed all other predictions by an uncomfortable margin. Such a discrepancy in one method over that produced by all other available methods does not make sound engineering sense and creates serious doubts as to the validity of using the Type II curve. We believe that the use of the SCS Type II 24-hour storm distribution for a 6-hour storm is inappropriate and should not be used for the prediction of the 100-year, 6-hour runoff.

Ditch 6B and the culvert at its outfall have similarly been designed to meet the 100 year - 6 hour runoff as agreed to yesterday. Completed design details will be forwarded to Plateau Mining Company.

Sincerely,



David E. Hansen, Ph.D., P.E.

DEH/dh

cc: Ben Grimes - Plateau Mining Company