



MT. NEBO SCIENTIFIC  
research and consulting

p.o. box 337, springville, utah 84663  
phone (801) 489-6937

December 27, 1991

Mr. Rick Summers  
State of Utah  
Department of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West No. Temple  
Salt Lake City, Utah 84180

RECEIVED

DEC 30 1991

DIVISION OF  
OIL GAS & MINING

RE: WELLINGTON COAL PREPARATION PLANT

Request for extension for preparation of final plans for  
sediment pond modifications.

Dear Mr. Summers:

Thank you for meeting with Ms. Sharon Falvey (DOGM) and Mr. Greg Poole (Hansen Allen, & Luce, Inc.) on December 16, 1991 to discuss preliminary designs for modification of the Dryer Sediment Pond, the Slurry Pipeline Sediment Pond, and the Refuse Basin Sediment Pond to bring these facilities into compliance with current regulations. As was discussed in the meeting, Castle Valley Resources requests a time extension be granted for the preparation of final design details for modification of sediment ponds at the Wellington Coal Preparation Plant. The requested extension is based on delays experienced due to DOGM workloads delaying the review meeting and the unanticipated need for review by the Denver & Rio-Grande Railroad. We request that the due date for submission of final design plans for modification of the Pipeline Slurry Sediment Pond and Refuse Basin Sediment Pond be extended to February 1, 1992 to allow sufficient time to prepare for final details in accordance with the preliminary plans presented in the December 16th meeting. We request that the due date for submission of final design details for expansion and modification of the Dryer Sediment Pond be extended to May 1, 1992 to allow for submission of plant to the railroad, railroad review time, and obtaining an agreement as needed with the railroad.

Several design criteria questions were answered in the December 16th meeting. The design criteria for the pond modifications is summarized as follows (general criteria are presented first followed by specific application to the Dryer Sediment Pond, Refuse Basin Sediment Pond and Slurry Pipeline Sediment Pond):

GENERAL

1. Dewatering Device: A dewatering device is required on all sediment ponds. The device must be placed with

invert a minimum of 2 feet above the predicted 60% sediment accumulation level. The device must be equipped with an oil skimmer. A small diameter pipe and 90 degree elbow with the inlet end located at least 3 inches below the decant overflow elevation is adequate. The dewatering device may either be automatic or manual. It is suggested that provisions be made for both automatic and manual operation of the dewatering device by providing a valve for manual operation as needed, and demonstrating that even if the device is left open - that effluent requirements are still met (i.e. that there is a 24-hour separation between inflow and outflow design hydrograph centroids).

2. Primary and Emergency Spillways. Spillways must be capable of passing the emergency design flood (25-yr 6-hr design storm for dams less than 20 feet in height and impounding less than 20 acre-feet of water, and 100-yr 6-hr design storm for larger dams). Primary spillway elevation must be placed such as to provide treatment of storms up to the 10-yr 24 hour event.

#### DRYER SEDIMENT POND

Much of the area needed for expansion of the Dryer Sediment Pond is located within Denver & Rio Grande Western Railroad Company right-of-way. Contact has been made with the railroad (Mr. Orlando Miera, Rio-Grande Railroad Assistant District Engineer, Salt Lake City Office) and it appears that the approach may be acceptable to the Railroad. However, the Railroad review process is estimated to take 60 days to complete.

1. The Dryer Sediment Pond may either work in series with the Road Pond and Auxiliary Pond for treatment purposes or be designed as the sole storm runoff treatment facility. Volume requirements for both alternatives were presented in the meeting. In either case, the Dryer Sediment Pond will need expansion and outlet modification to meet volume requirements.

#### REFUSE BASIN SEDIMENT POND

1. A dewatering device may be installed in one of the three existing spillway risers (Lower Refuse Dike) placed at the desired elevation (5374.0 feet).

Page 3  
R. Summers  
December 27, 1991

2. The hydrologic analysis presented in the September submittal was reviewed and you recommended that the Refuse Basin Sediment Pond spillways be analyzed assuming the water level (at the start of the design storm) is at the elevation of the Primary Spillway rather than the elevation of the decant as submitted.

#### SLURRY PIPELINE SEDIMENT POND

1. The Slurry Pipeline Sediment Pond must be provided with a dewatering device and a stable spillway. A preliminary plan and profile was reviewed. You suggested that the riprap outlet be kept back from the edge of the Price River normal water line.

Please call either me, Greg Poole (566-5599) or Jon Passic (637-2342) if there are any questions on any of the above statements.

Sincerely,



Patrick D. Collins, Ph.D.  
Environmental Consultant

cc: Jon Passic  
Greg Poole