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# TECHNICAL MEMORANDUM

## Utah Coal Regulatory Program

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December 1, 2010

TO: Internal File

THRU: Kevin Lundmark, Hydrologist and Team Lead *KL*

FROM: James Owen, Reclamation Engineer *JO*

RE: Protection & Enhancement Plan & Raptor Survey, Hidden Splendor Resources, Horizon Mine, C/007/0020, Task #3666

### SUMMARY:

On July 7, 2010, the Utah Division of Oil Gas & Mining received an application for approval of the Beaver Creek Protection and Enhancement Plan. Hidden Splendor Resources submitted the application for the Horizon Mine in response to a letter sent by the Division to Horizon Mine personnel explaining that the mine must either develop a Protection and Enhancement Plan for the Beaver Creek area as described in the mine's approved MRP or submit an application to modify the MRP. A deficiency was identified indicating that the mine needed to submit and updated mine map. On November 1, 2010, the Division received a response to address the deficiencies identified.

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**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS**

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

**Analysis:**

The Division requested that the following information be provided on a map with response:

1. *An up-to-date mine map that clearly defines/indicates/includes, but is not limited to:*
  - a. *Underground workings (the size, configuration, and approximate location of mine pillars and entries)*
  - b. *Past Mining Activities & Timing (include location and year that advance & retreat mining took place)*
  - c. *Future Mining Activities & Timing (5 year projection minimum, include location and year that advance & retreat mining is expected to take place)*
  - d. *Locations and timing where past advance & retreat mining have taken place beneath Beaver Creek*
  - e. *Locations and timing where future advance & retreat mining is expected to take place beneath Beaver Creek*
  - f. *Overburden thickness contours, including a 900-foot contour delineating areas where less than 900 feet of overburden exists*
  - g. *Subsidence monitoring stations*
  - h. *Surface elevation contours*
  - i. *Perennial streams, including Beaver Creek*
  - j. *Water monitoring locations*

The map submitted with the response did not include complete/adequate information for the above items *b*, *h*, & *i*. However, information satisfying items *h* & *i* has been previously submitted to the Division and can be located on Plate 7-1 within the Horizon MRP. Item *b* was only partially complete as timing details were not indicated for portions of previously mined areas. The submitted map will be considered adequate, as it was determined that details of the timing for all mining areas is not critical at this time. The Division recommends that detailed timing information for all past mining activities be kept updated and available for future requirements/references.

**Findings:**

The information provided is considered adequate to meet the minimum regulatory requirements for this section.

**RECOMMENDATIONS:**

This application will be recommended for approval.

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