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TECHNICAL MEMORANDUM  
Utah Coal Regulatory Program

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August 16, 2010

TO: File *RRH*

THRU: Ingrid Campbell, Biologist and Team Lead *IC*

FROM: James Owen, Reclamation Engineer *JO*

RE: Underground Mine Water Treatment, West Ridge Resources Inc., West Ridge Mine, C/007/0041, Task #3602

**SUMMARY:**

On August 11<sup>th</sup>, 2010, the Division of Oil, Gas and Mining received an application for amendment from West Ridge Resources, Inc. The amendment addresses the corrective measures outlined in NOV #10063 relative to the implementation of an underground mine-water monitoring/treatment system.

The following technical memo is the engineering review of the amendment relative to the State of Utah R645-Coal Mining Rules.

TECHNICAL MEMO

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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 applicant submitted a narrative and map for the Mine Water Treatment system. The narrative is included in Attachment 10 of the submittal. The accompanying map is Map #1, Proposed Schematic Water Pumping Diagram.

The schematic depicts all cross cuts, sumps, pipes, tanks, flow directions, sample locations, etc that are discussed in the text. They are all clearly labeled/described. Treated water is sent through a series of monitoring, treatment & settling systems. The system utilizes two different gobs that act as settling areas (between 4th & 5th Right, and between 8th & 9th right). All water that needs treatment (including water from the east sub-mains) will be sent through one or both of these settling gobs. Naturally occurring water from sealed districts 1 & 2 also flow to the settling gobs.

Map #1 Proposed Schematic Water Pumping Diagram has been certified & signed by a registered professional engineer.

**Findings:**

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules. The concept & design of the pumping system as it is proposed is adequate enough to comply with the corrective measures outlined in NOV #10063.

**RECOMMENDATIONS:**

The application is recommended for approval.