

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

October 19, 2011

10/27

TO: Internal File

THRU: Ingrid Campbell, Mine Lead *UC*

FROM: Steve Christensen, Environmental Scientist *SCC*

RE: Updated Surface Maps, West Ridge Resources, West Ridge Mine, C/007/0041, Task ID #3928

SUMMARY:

On September 28th, 2011, the Division of Oil, Gas and Mining (the Division) received an amendment to the West Ridge Mining and Reclamation Plan (MRP). The amendment was submitted by West Ridge Resources (the Permittee). The amendment was submitted in response to a deficiency letter sent on August 17th, 2011.

The initial amendment (Task ID #3873) revised two of the approved plates within the MRP (Plate 5-5, Surface Facility Map and Plate 7-2, Mine Site Drainage Map). The revisions to the plates were necessitated by the construction/installation of methane drainage pumps.

A deficiency had previously been identified relative to newly installed components of the surface drainage network. The Permittee was directed to revise Appendix 7-4, West Ridge Mine Sedimentation and Drainage Control Plan (As Constructed). The revision was to provide the detailed design drawings and sizing calculations for the 4' x 4' collection box that was installed as well as to address the sizing considerations for disturbed drainage culvert DC-2.

The amendment has addressed the previously identified deficiencies and is recommended for approval.

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TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Diversions: General

The amendment meets the Diversions requirements of the State of Utah R645-Coal Mining Rules.

The amendment provides the sizing calculations for disturbed drainage culvert DC-2A. Revisions have been submitted for Appendix 7-4, *West Ridge Mine Sedimentation and Drainage Control Plan (As Constructed)*. Plate 7-2, *Mine Site Drainage Map* has been revised to depict the location of culvert DC-2A.

Table 15, *Disturbed Culvert Design Summary*, provides the revised sizing calculations. The as-built design diameter is 1.25'. Based upon the required design storm event (10-year, 6-hour), the culvert sizing is adequate to safely convey the peak flow of 4.40 cubic feet per second (cfs).

Plate 5-5, Surface Facility map depicts the location of the methane drainage pumps as Item #44, Methane Drainage Pumps. The pumps are located approximately 75' southwest of the magnesium chloride tank (Item #31).

The 4'x4' collection box that had previously been installed adjacent to the methane extraction pumps has been removed from the site (per Division Inspector Steve Demczak).

Findings:

The amendment meets the requirements of the State of Utah R645-Coal Mining Rules. The following deficiency must be addressed prior to final approval:

RECOMMENDATIONS:

The amendment is recommended for approval.