

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

March 8, 2005

TO: Internal File

FROM: Stephen J. Demczak, Environmental Scientist III/Engineering, Team Lead

RE: Partial Pillar Splitting Plan, Consolidation Coal Company, Emery Deep Mine, C/015/015, Task ID #2162

SUMMARY:

The permittee has submitted to the Division a revised partial pillaring plan for Emery Deep Mine. This plan has received MSHA approval. The permittee submitted information and theoretical calculations projecting no (anticipated) unplanned subsidence in 1st and 2nd south. In areas where Christiansen Wash is near or above the mine no pillar extraction will occur.

TECHNICAL ANALYSIS:

OPERATION PLAN

EXISTING RUCTURES

Regulatory Reference: 30 CFR 784.12; R645-301-526.

Analysis:

There are no existing structures above 1st and 2nd south miner sections.

Findings

The permittee has met the minimum requirements of this section.

COAL COVERY

Regulatory Reference: 30 CFR 817.59; R645-301-522.

TECHNICAL MEMO

Analysis:

The permittee has projected a total coal recovery of 75.3 percent from center of entry. The coal recovery can and will change depending on depth of cover and geological conditions.

Findings

The permittee has met the minimum requirements of this section of the R645 Coal Rules.

SUBSIDENCE CONTROL PLAN

Regulatory Reference: 30 CFR 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

Analysis:

Subsidence Control

The permittee has modified the subsidence control plan to include a monthly walk over inspection of the surface area overlying 1st and 2nd South. A record of the inspection will be kept on site. This is additional to the requirements to the land survey in the MRP.

Performance Standards For Subsidence

By using “Pillar Design Safety Factor Calculations”, the permittee has demonstrated that unplanned subsidence is not anticipated.

ification

The permittee is the surface owner above First and Second South.

Findings:

The permittee has met the minimum requirements of this section.

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:

General

There is no planned subsidence under Christiansen Wash. No pillar splitting will occur above or within 100 feet of the Wash.

Stream Buffer

The permittee will not split pillars above or 100 ft of each side of Christiansen Wash. This is illustrated on Figure V-1.

Findings:

The permittee has met the minimum requirements of this section.

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:

Mine Workings

The permittee has submitted Figure V-1, which is a detail of which pillars will or will not be split.

Certification Requirements

Figure V-1 is P.E. certified by Bruce T.S. Ware.

Findings:

The permittee has met the minimum requirements of this section.

RECOMMENDATIONS:

The permittee has met the minimum requirements. This amendment is recommended for approval.