

a

#4005
R

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

March 5, 2012

TO: Internal File

THRU: James Owen, Lead *JO*

FROM: Amanda Daniels, Environmental Scientist *AD*

RE: Update Drainage Plan, Utah American Energy, Inc., Horse Canyon Mine, C/007/0013, Task ID #4005

SUMMARY:

The Division of Oil, Gas & Mining received an application from Utah American Energy on February 6, 2012 to update and amend the Horse Canyon Mining and Reclamation Plan (MRP). The application addresses the drainage plan.

This memo addresses the applications compliance with the hydrology (R645-301-700) section of the Utah Coal Mining Rules.

TECHNICAL MEMO

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:

The application states on page 59 that the ASCA areas will control the flow of sediment with a combination of one or more of the following: berms, silt fences, and straw bales. Upon final reclamation the applicant states that these devices will be removed and the areas will be seeded.

The following areas are listed as ASCA areas: outslopes of the water treatment area, outloaps of various roads and coal pads, and the topsoil storage area. The applicant has provided the necessary supporting calculations to predict run-off volumes during a 10 year/24 hour design storm for the above mentioned surface facilities.

The application has defined two areas, the north and south ventilation breakouts as "Non-ASCA" areas. The applicant states that these breakouts will have insignificant disturbances associated with them and that the pads are sloped back into the portals and there will be no offsite drainage, just a limited runoff toward the portals.

Findings:

The hydrologic content and information provided in the application are sufficient to meet the requirements of the Utah Coal Mining Rules.

RECOMMENDATIONS:

The application is recommended for approval at this time.