

July 8, 1986

TO: Coal File

FROM: Dave Cline, Reclamation Hydrologist *DC*

RE: Site Tour of Hardscrabble Canyon, Castle Gate Coal Company,  
ACT/007/004, Carbon County, Utah

On July 1, 1986 Dave Cline and Dave Lof of the Division reviewed undisturbed diversion D-6 prior to construction modifications by Castle Gate Coal Company. We were joined on site by Rich Allison of Castle Gate. The purpose of the site visit was to examine the diversion and determine areas where riprap would be required. The drainage control modification submitted by Castle Gate in October of 1985 and approved by the Division on April 21, 1986 included a commitment by the operator to rip rap diversion D-6 in all areas that were not underlain by bedrock. Mr. Allison requested the visit by the Division to make the determination of where rip rap will be needed.

Diversion D-6 was walked from beginning to end and the following observations were made:

1. Riprap will be required on the channel bottom and along the reconstructed berm along its entire length.
2. The majority of the left side (looking upstream) of the diversion is either constructed in bedrock or is heavily vegetated. Therefore, riprap will not be required in areas of bedrock or vegetation.

Mr. Allison was told that the channel would need to be riprapped along its total length on the bottom and right hand, (berm) side. He was also told that the rip rap should be graded as close to possible to the size gradation presented in Barfield, Warner and Haan, 1983 and a well graded filter blanket would be required. Additionally, Mr. Allison was told that the thickness of the riprap and filter blanket should be taken into account during excavation in order to maintain the cross-section design.

jvb  
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cc: Dave Lof

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