

0011



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 11, 1988

TO: File

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Review of Stipulation Response 817.44, Plateau Mining Company, Starpoint Mine, ACT/007/006, Folder #2, Carbon County, Utah

Synopsis

The Division received on June 29, 1988, three copies of the channel reclamation plan design details, and one copy of the channel design calculations. These plans have been reviewed and the following analysis and recommendations generated.

Analysis

The feasibility of the current plan hinges on the fact that the runoff control facilities associated with the mine access road are not part of the Reclamation Plan because Carbon County will be given title to the roadway upon mine abandonment. The concerns identified under Stipulation 817.44 were as follows:

"Plateau Mining Company shall submit for inclusion in the PAP, complete and adequate designs, calculations, profiles, cross sections, and drawings, to detail final reclamation and channel restoration measures. This includes post mining drainage patterns, and water monitoring locations."

The applicant has provided complete and accurate plans detailing final reclamation and channel restoration measures. The cross sections depicted on Map 50, sheets 4, 5, 6 and 7 represent the final channel configurations. The designs have been checked by picking various watershed areas and running the design parameters through SedCod, a computer model produced by the University of Kentucky. All calculations were correctly presented by the applicant and cross checked with the numbers generated by the computer model. No significant deviations were documented. The applicant has presented designs for all major channels except for the topsoil stockpile area which, due to the contributing watershed area will not warrant an

Page 2
Memo to File
ACT/007/006
August 11, 1988

engineered channel, and as such, a variance will be granted for this area. Only a few concerns are left unanswered and need to be addressed. They are as follows:

Item #1 Field surveying will be completed prior to channel construction to determine if any unstable slopes will be created by the implementation of these channel designs prior to construction. Prior to actual channel construction, a Division hydrologist will check field surveys to determine slope stability in the areas of channel construction. The applicant must mark any cut or fill slopes in the survey.

Item #2 The post-mining monitoring plan has been spelled out on page 784-87 of the PAP. The operator committed verbally during a phone conversation on August 12, 1988 to include the following language to the PAP on page 784-87. "The post-mining monitoring plan will include the use of conventional sediment controls (sediment traps and ponds), alternative sediment control (silt fences, etc.) and comparative water quality assessments of undisturbed drainages to meet the state and federal water quality requirements for receiving waters." Map 50 shows the locations of post-mining monitoring locations and must be referenced in the PAP.

Recommendations

The applicant must provide the following information for insertion into the PAP.

1. The applicant must make a commitment in the PAP to field survey all reconstructed, reclaimed channels 60 days prior to construction, so that a site specific field slope stability assessment can be made.
2. The applicant must include the verbage noted under Item #2 above on page 7-84-87 of the PAP. Map 50 shows the locations of post-mining monitoring points, and must be referenced in the PAP on page 784-87.

djh
WP+5/2-3