



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

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To: File

Thru: Joe Helfrich, Permit Supervisor, Compliance *JH*

From: Wm. J. Malencik, Reclamation Specialist *WJM*

RE: Disturbed Area, Reclamation Maps, Cyprus Plateau Mining Corporation, Star Point Mine, ACT/007/006, Folder #2, Carbon County, Utah

Summary

The purpose of this memorandum is to provide you recommendations on the above subject. I was asked to review the aforementioned maps and provide comments. There are two keystone questions that need to be answered:

- (1) Do the perimeter markers correctly depict the disturbed area as observed in the field?
- (2) Are the disturbed areas properly depicted on Reclamation Topography maps 542.200a, E-12, sheet 1; 542.200b, E-13, sheet 2; and 542.200c, F-14, sheet 3?

The answer to the first question is yes; the answer to the second is no.

The scope of the review was based on the aforesaid maps provided by Mr. Pappas which I have now found was an advanced copy. The maps have a certification stamp, are unsigned, and undated.

Reclamation Plan - R645-301-540./Maps - R645-301-542.

Analysis

- (1) The current three referenced maps do not depict the disturbed area, are not dated, nor is the certification affixed by a signature. Having the disturbed boundary accurately shown on the map is a cornerstone and essential to any reclamation map.



- (2) The disturbed perimeter markers are posted on the mine site and includes pre-SMCRA disturbed areas that have been used in connection with permitted coal mine activities and post-SMCRA disturbed area. The markers are in place between the disturbed and undisturbed areas and are observable both foresight and backsight.

Further, pre-SMCRA disturbed areas that have not been used lie outside the disturbed marked areas. Also, there are small areas or islands of undisturbed that lie within the interior of the exterior disturbed posted boundary. The interior islands have not been posted with perimeter markers; however, are covered with indigenous plant species and show no evidence of coal mine related disturbances and, in my opinion, do not need to be posted on the ground.

Findings/Recommendations

- (1) The official maps should be dated, certified, and signed by the certifying official.
- (2) The map should be revised to show all disturbed area including the islands of undisturbed areas referenced above.
- (3) The map legend using terms retained pre-SMCRA highwall, retained pre-SMCRA cutslope, and retained post-SMCRA cutslope, by the words themselves leaves the reader under the impression nothing will be done. This is somewhat dispelled by the cross-section depicted on the map.

For the Division's consideration, perhaps the map legend should be revised with better and more descriptive terms.