



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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May 3, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Hugh Klein, Reclamation Hydrologist 

RE: Submittal of Drainage Plans for the Coarse Refuse Area as Required by NOV #N91-32-2-1, Sunnyside Coal Company, Sunnyside Mine, ACT/007/007, Folder #2, Carbon County, Utah

## Synopsis

In order to remediate NOV #N91-32-2-1, the operator must submit to the Division, complete and adequate plans to fulfill the requirements of R614-301-746.212 and R614-301-742.300. The following is an analysis of Sunnyside's submission of April 19, 1991, regarding this NOV; specifically, these are drainage plans for the Coarse Refuse Area.

## Analysis

The letter from Sunnyside lists seven plates contained in the approved permit that detail drainage plans and calculations for the Coarse Refuse Area at the Sunnyside Coal Mine. In addition, Sunnyside Coal Company has enclosed a new map (Drawing No. D4-0174, Refuse Drainage Plans) which consolidates the designs and drainage patterns onto one map. However, there is some disagreement between the new plate (D4-0174) and the existing maps (listed in the letter and contained in the approved permit).

The most significant discrepancy that has been noted is between Plate III-6, C4-0058 and Plate D4-0174. The new plate shows a drainage path along the north side of the Coarse Refuse Area with the direction of flow from northeast to southwest. This is not shown on Plate III-6, C4-0058, nor are there any graphic depictions or design specifications for this (i.e., is it a concrete culvert, earthen channel, etc). It is also difficult to understand where this drainage is relative to the limits of the refuse pile. In addition, there is the question of drainage in the southern

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portion of the coarse refuse pile. Plate III-6, C4-0058, shows a 36" cement culvert, which appears to be the major drainage feature in this area of the refuse pile. The new plate (D4-0174) does not show this, but rather shows a drainage along the southern boundary; there is also the question of the design of this feature.

Because this causes serious confusion, the question arose as to the validity of the maps in possession of the Division. In order to try and clarify this, Gary Gray of Sunnyside Coal Company was contacted about the latest revision dates for maps listed in the above referenced letter.

In a conversation on May 1, 1991, Mr. Gray provided the following information:

<u>PLATE</u>	<u>LATEST REVISION</u>
III- 5, C4-0006	11/23/85
III- 5, D4-0158	10/27/87
III- 6, C4-0058	11/23/85
III- 6, D4-0080	10/04/85
III- 6, D4-0081	10/04/85
III- 6, D4-0079	10/04/85
III-40, D4-0138	11/26/85

Division maps show the following:

<u>PLATE</u>	<u>LATEST REVISION</u>	<u>DIVISION STAMP</u>
III-5, C4-0006	Missing at present	
III-5, D4-0158	10/27/87	12/22/87
III-6, C4-0058	11/23/85	11/27/85
III-6, D4-0080	None Shown	08/08/85
III-6, D4-0081	06/23/88	06/30/88
III-6, D4-0079	02/07/83	08/09/85
III-4, D4-0130	11/26/85	11/27/85

In light of Division records compared to Sunnyside records, there seems to be added confusion. Due to this, it is not possible to accurately review and reach a decision on the drainage plans for the Coarse Refuse Area.

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Recommendations

- 1) The discrepancy between Plate III-6, C4-0058 and the new plate (D4-0174) should be cleared up. Plate D4-0174 is supposed to be a consolidation of existing plans; however, this is not the case.
- 2) Obtain the most up to date plates and maps regarding this issue. These should come directly from Sunnyside so as to minimize confusion.

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