



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

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December 8, 1999

*Amendment 99B is being
 incorporated into the
 response to Division order 97A
 to be submitted by 12/27/99*

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

THRU: Sharon Falvey, Project Lead *SFK*

FROM: Priscilla Burton, Soils Reclamation Specialist *PB*

RE: Soils Technical Deficiency Review of Sediment Pond 5 Reclamation, Hiawatha Coal Company, Hiawatha Complex, ACT/007/011-99B, Folder #2, Carbon County, Utah

SUMMARY

Hiawatha Coal Co. intends to reclaim sediment pond 5, a small pond that received waters draining from slurry pond 4. There is no new information in the submittal with regard to reclamation. It is assumed that all procedures described in the MRP will be followed with regard to testing of acid/toxic materials and minimum cover depths for coal fine materials.

TECHNICAL ANALYSIS:

OPERATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

Analysis:

The estimated volumes of stockpiled soils are presented in Table II-12 and discussed in the narrative under 231.400 (page 31). The total in the Volume Available column has been altered by the use of stored topsoil for reclamation of a small area of slurry pond 4. The new figure for Total Volume Available should be listed in Table II-12.

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Findings:

The permittee must provide the following, prior to approval, in accordance with the requirements of:

R645-301-231.400, Adjust the volume calculations in Table II-12 to reflect the use of topsoil on the recent reclamation of a small area of slurry pond 4.

RECLAMATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-240.

Analysis:

No information on reclamation of sediment pond 5 was included with the submittal.

Sediment pond 5 embankments will be used for reclamation of sediment pond 5. Pond 5 embankments came from the location of borrow area F and should be similar to this material. Please sample the embankments for pH, EC, texture, nitrogen, phosphorus and potassium.

What is the estimated volume of material in the embankments? What is the area of sediment pond 5 to be covered? What depth of cover will be achieved?

Where coal fines have accumulated to a depth of 2 inches or more, they should be tilled under before being covered with soil.

Findings:

The permittee must provide the following, prior to approval, in accordance with the requirements of:

R645-301-242, Analysis of sampling of the sediment pond 5 embankments for pH, EC, texture, nitrogen, phosphorus and potassium **and** an estimation of soil volume in the embankment and depth of cover calculations for the pond 5 area.

R645-301-242.200, Incorporate coal fines into the subsoil prior to covering with substitute topsoil.

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ACID-AND TOXIC-FORMING MATERIALS

Regulatory Reference: R645-301-731.300.

Analysis:

No information on reclamation of sediment pond 5 was included with the submittal.

Since the sediment pond received drainage from slurry pond 4, it may contain excess coal fines. Therefore, the sediment must be sampled for acid/toxic forming materials.

As described in the MRP, the practice for reclamation of slurry ponds and coal refuse has been to cover with sixteen inches of substitute topsoil. Where coal fines have accumulated to a depth of 2 inches or more, they should be tilled under before being covered with soil. Sixteen inches of cover will be required over coal fines in the pond which have accumulated to a depth of 12 inches or more.

Findings:

The permittee must provide the following, prior to approval, in accordance with the requirements of:

R645-301-731.300, Analysis of the coal fines in sediment pond 5 and a comment on the average depth of the coal fines in the pond.

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