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

Michael O. Leavitt
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TO: Daron Haddock, Permit Supervisor *DRH*
FROM: Wayne H. Western, Reclamation Engineer *WHW*
DATE: May 20, 1994
RE: Alternate Borrow Sites, Hiawatha Mine, U.S. Fuel Co.,
ACT/007/011

R645-301-533.100

Synopsis of Proposal:

In Area F, no embankments will be constructed so this deficiency does not apply.

Analysis:

The depressions are all small and incised. Slope failure is unlikely. Should slope failure occur, the result would be insignificant.

Recommendation

Approve the proposal.

R645-301-533.330

Synopsis of Proposal:

The use of small depressions and silt fencing in Area F will not subject this area to the effects of sudden drawdown.

Analysis:

It is unlikely that the depressions would be subjected to sudden drawdown. Even if sudden drawdown did occur, there would be no significant damage to the environment or human safety.

Recommendation:

Approve the proposal.



R645-301-540 through 542.100

Synopsis of Proposal:

In Area F, the silt fencing will be removed when the vegetation has been established to the point that the fencing is no longer needed to control erosion. Or at the end of the 10-year reclamation period, established to the point where the fencing is no longer needed to control erosion. The silt fencing will be removed by hand, thus there will be no disturbance to the site. It is proposed that the small depressions remain permanently. The regulations allow the use of such permanent depressions in R645-301-552.100

Analysis:

The silt fences are minor structures that will be removed when vegetation has been established or at the end of the 10 year reclamation period. The Operator's commitment to remove the silt fence is sufficient.

The small depressions are permanent structures that will be eventually filled. No reclamation timetable is needed for the depressions.

Recommendations:

Approve the proposal.

R645-301-542.200

Synopsis of Proposal:

As requested, a cross-section that depicts the slopes of the alternative borrow area is included in Appendix VII-10.

Analysis:

The cross-sections show the slopes of the borrow areas. They appear to be adequate. No more information is needed at this time.

Recommendations:

Approve the proposal.

R645-301-542.800

ACT/007/011
May 20, 1994
Page 3

Synopsis of Proposal:

The use of permanent depressions, instead of sediment ponds, reduces the total reclamation cost. The Operator does not seek a bond reduction.

Analysis:

The current bond is sufficient to cover the reclamation costs for the alternative borrow site.

Recommendations:

Approve the proposal.



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April 26, 1994

TO: Daron Haddock, Permit Supervisor

FROM: Steven M. Johnson, Reclamation Hydrologist

RE: Alternate Topsoil Borrow Areas, U. S. Fuel, Hiawatha Mines, ACT/007/011-93B, Folder #2, Carbon County, Utah

SUMMARY

On September 10, 1993, The Division received a proposed change to U.S. Fuel Company's Plan that requested the addition of two alternate topsoil borrow areas. The Division received a revised submittal on April 22, 1994 addressing the concerns of the first. U.S. Fuel requested the approval of Borrow Area F in this revision, and asked to wait until a later date to permit the remaining areas. I have conducted a review of the hydrology in the latest proposal, and reviewed the soils deficiencies from the previous submittal addressed by Mr. Henry Sauer.

ANALYSIS

R645-301-120 Permit Application Clear and Accurate

Proposal:

The latest amendment included pages 20 and 22 of Chapter 2, page 57 of Chapter 3, and page 85 of Chapter 7. The previous submittal included other pages from these same chapters that will be carried on through the approval process.

Analysis:

Page numbers included in these submittals do not correspond to the page numbers in the currently approved plan. U.S. Fuel should match these numbers.

Deficiencies:

1. Match the page numbers of the proposed amendment to the page numbers in the current plan.



RECOMMENDATION

I recommend that the Division approve the plan for harvesting Borrow Area F. The hydrology is complete and accurate, and it is my opinion the U.S. Fuel has adequately addressed the previous deficiencies outlined by Mr. Henry Sauer, Reclamation Soils Specialist. U.S. Fuel should, however, fix the page numbers of the submittal to match the page numbers of the currently approved plan. It is understood that the other borrow areas addressed in previous submittals will be permitted at a later date.

I would also encourage U.S. Fuel to recontour in a way that will keep the slopes to minimum grades. Erosion is more likely to occur on the steeper grades. This is especially important in the upper portion of the borrow area where the side slopes meet the back slope. The areas that require steeper slopes may also require more roughness to avoid excessive erosion. The operator may rip this area more than once to get the desired roughness.

TOPSOILC.MEM



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May 26, 1994

To: Pam Grubaugh-Littig, Permit Coordinator

From: Daron R. Haddock, Permit Supervisor

Re: Approval of Alternate Topsoil Borrow Area, U. S. Fuel, Hiawatha Mines,
ACT/007/011-93B, Folder #2, Carbon County, Utah

The above-referenced amendment has been reviewed by the technical staff and has been found adequate for approval with the following condition.

U. S. Fuel must match the page numbers of the amendment to the page numbers in the current plan.

This condition could be satisfied by having them submit the required copies of their amendment which have had the page numbering corrected.

