



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

Michael O. Leavitt  
 Governor  
 Ted Stewart  
 Executive Director  
 James W. Carter  
 Division Director

355 West North Temple  
 3 Triad Center, Suite 350  
 Salt Lake City, Utah 84180-1203  
 801-538-5340  
 801-359-3940 (Fax)  
 801-538-5319 (TDD)

TO: Daron Haddock, Permit Supervisor *DH*  
 FROM: Wayne H. Western, Reclamation Engineer *WHW*  
 DATE: April 1, 1994  
 RE: Modified Review Alternative Borrow Sites, U.S. Fuel Company, Hiawatha Mine, ACT/007/011, Folder #2, Carbon County, Utah

**R645-301-533.100 Impoundments not meeting the size or other criteria of 30 CFR 77.216(a), and located where failure would not be expected to cause loss of life or serious property damage will have a minimum static safety factor of 1.3 for normal pool with steady state seepage saturation conditions or meet the requirements of R645-301-733.210**

**Synopsis of Proposal:**

The small sediment traps (<0.20 acre feet) which are proposed to be used for impoundments, are incised with maximum 2h:1v side slopes to reduce the possibility of failure, and are located such that any possible overflow would not endanger life or property.

The sediment traps will be constructed to a depth of 3 feet that will include 1 foot of free board. The traps will consist of a series of cells with a maximum length of 50 feet and average 11 feet wide. The cells will be separated by berms with 5 foot tops. The slopes will not exceed 1 vertical to 2 horizontal. The sediment traps will be constructed whenever possible on level ground.

**Analysis:**

Since the sediment traps will be incised, slope failure is unlikely. Outside slope failure will only occur if the sediment trap is located near a steep slope. The cross section in Appendix VII-10 shows the ponds constructed in level ground. Outside slope failure is unlikely. The sediment traps are located in areas where failure would not result in health or safety problems.

**Recommendation:**

Approve the proposal regarding R645-301-533.100.



Page 2  
ACT/007/011  
April 1, 1994

**R645-301-533.330** Slope protection will be provided to protect against surface erosion at the site and protect against sudden drawdown.

**Synopsis of Proposal:**

The sediment traps are incised and have a maximum depth of 3 feet. It is unlikely that failure will occur and if it did the embankment would not fail.

**Recommendation:**

Approve the proposal regarding R645-301-533.330.

**R645-301-540 through 542.100** The reclamation plans for the proposed permit area will include a detailed timetable for the completion of each major step in the reclamation plan.

**Synopsis of Proposal:**

The Applicant proposed leaving the structures.

**Analysis:**

I have been informed by Daron Haddock and Steve Johnson that the Applicant has withdrawn the plan to use sediment traps. The Applicant wants to replace the sediment traps with strawbales and silt fences.

**Recommendation:**

Deny the proposal because Applicant is withdrawing his request.

HSEDTRAP.WHW