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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

February 24, 1993

Mr. Michael W. Glasson  
Andalex Resources Inc.  
P. O. Box 902  
Price, Utah 84501

Dear Mr. Glasson:

Re: Approval of Response to DO #92B (UD-2 Ditch), Andalex Resources, Inc.,  
Centennial Mine, ACT/007/019-93A, Folder #3, Carbon County, Utah

The Division has completed a review of your response to Division Order #92B received January 15, 1993. It has been labeled Amendment 93A. The response is considered adequate and it is hereby approved for insertion to your Mining and Reclamation Plan. Division Order #92B has been satisfactorily completed.

Thank you for your help in resolving this permitting issue. Please call if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Daron R. Haddock".

Daron R. Haddock  
Permit Supervisor

cc: J. Helfrich  
S. Demczak, PFO  
DITCUD2.CEN



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February 8, 1993

TO: Darron Haddock, Permit Supervisor

FROM: Thomas Munson, Senior Reclamation Hydrologist 

RE: Response to DO 92B ( UD-2 Ditch ), Centennial Project, Andalex Resources Incorporated, ACT 007/019-93A, File Folder #2, Carbon County, Utah.

## Synopsis

The Division received on 1/15/93 the plan to address Division Order 92B. This memo addresses the adequacy of this response.

## Analysis

The data presented in Table IV-3 for UD-2 estimates a peak flow using TR-55 and appears to be well in excess of the numbers calculated by the Division using the same method, therefore the designs are considered conservative. The ditch has been divided up into four sections (Upper, Undisturbed, Office, and Lower) with only the upper and lower sections requiring actual protection according to the operator.

Only one section (Undisturbed) dictates protection based on calculations but the text does not provide any evidence that protection is provided. This section is considered undisturbed and therefore is being monitored by the mine for any adverse impacts from the section above. In conversations with Mr. Mike Glasson it was discussed that this section of ditch is not to be disturbed ever during operations or reclamation. The Division agrees with this approach based on its relative stability at this point in time.

## Recommendation

This amendment be approved with the consideration that the operator has agreed to maintain the Brattice cloth lining in the upper section as soon as possible in the spring. The operator may want to revise these conservative calculations based on the findings of the Division.