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Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

March 17, 1992

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

Dear Mr. Glasson:

Re: Diversion Amendment, Wildcat Loadout Facility, Andalex Resources, Inc., ACT/007/033-92A, Folder #3, Carbon County, Utah

The above-noted amendment is approved. Enclosed please find a memorandum that explains the rationale for approval. Monitoring of the ditches must continue in response to precipitation and runoff. If excessive erosion occurs, it will be necessary to consult with the Division (see item 5, page 130) and corrective actions will be agreed upon before implementation.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

pgl
Enclosure

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March 16, 1992

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Ken Wyatt, Reclamation Hydrologist KW

RE: Erosion Abatement Review, Andalex Resources, Wildcat Loadout, ACT/007/033, Folder # 3, Carbon County, Utah

92A

SYNOPSIS

NOV N 92-32-1-2 #1 of 2 was written to Andalex Resources for failure to perform the erosion pin study as specified in the approved MRP. The submittal for this abatement was received by the Division on February 26, 1992, which basically lists the erosion problems observed in various ditches within the disturbed area and the erosion controls that were installed in these ditches. The following is a review of the submittal from the operator describing these erosion control practices.

ANALYSIS

The operator had originally proposed to do an erosion pin study in the disturbed area ditches at the Wildcat Loadout to determine areas in these ditches with excessive erosion problems. In lieu of this, the operator has monitored the ditches and installed various forms of erosion protection in highly erosive areas.

The following table lists the ditches of concern, the methods of erosion control in place, and the calculated flow depth in the 1/2 round CMPs which were commonly used. These flows were based on the storm criteria in the approved MRP.

DITCH ID	AREA OF EROSION	EROSION CONTROL METHODS	Flow Depth (Feet)
D-1	entire length	24" 1/2 round CMP	.67
D-2	Sed. Pond E inlet	18" 1/2 round CMP	.57
D-3	Sed. Pond D inlet	24" 1/2 round CMP	.53
D-7	Sed. Pond C inlet	24" 1/2 round CMP	.57

DITCH ID	AREA OF EROSION	EROSION CONTROL METHODS	Flow Depth (Feet)
D-9	No erosion but siltation at mid-point	Regular cleaning	NA
D-11	No erosion but siltation at upper end	Regular cleaning	NA
D-13	Sed. Pond A inlet	Conveyor belt dissipator	NA
D-14	Sed. Pond A inlet	Conveyor belt dissipator	NA
D-17	Sed. Pond F inlet	24" 1/2 round CMP	.50

All of the erosion control structures will control the runoff without over topping. These erosion control treatments are depicted on Plate 2 attached with this submittal.

RECOMMENDATION

I recommend that the submittal be approved as abatement for this NOV and the information be included in the mine plan. The operator should continue to monitor these ditches in response to precipitation and runoff. If excessive erosion occurs, the operator will consult with the Division as described in the submittal (item 5, page 130) and corrective actions will be agreed upon.