



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

Michael O. Leavitt
 Governor
 Kathleen Clarke
 Executive Director
 Lowell P. Braxton
 Division Director

1594 West North Temple, Suite 1210
 PO Box 145801
 Salt Lake City, Utah 84114-5801
 801-538-5340
 801-359-3940 (Fax)
 801-538-7223 (TDD)

September 20, 1999

TO: File

THRU: Daron Haddock, Permit Supervisor

FROM: Randy Harden, Reclamation Engineer

RE: Highwall Reclamation, Andalex Resources, Centennial Project, ACT/007/019-99A, Folder #2, Carbon County, Utah

SUMMARY:

Proposed changes to the Centennial Project were received on September 1, 1999. These changes are proposed in order to address deficiencies in the plan related to highwall elimination.

Information found in the proposal was found to be adequate for incorporation into the mining and reclamation plan.

Technical analysis and findings related to the information found in the proposal are as follows:

TECHNICAL ANALYSIS:

RECLAMATION PLAN

BACKFILLING AND GRADING

Regulatory Reference: 30 CFR Sec. 785.15, 817.102, 817.107; R645-301-234, -301-537, -301-552, -301-553, -302-230, -302-231, -302-232, -302-233.

Analysis:

The proposal contains cut and fill calculations and revised cross section of the reclaimed area. Maps provided in the proposal include: Plate 6, As Constructed Surface Facilities

Highwall Reclamation
ACT/007/019-99A
September 20, 1999
Page 2

Deadman Canyon; Plate 14, Cross section Reference Cut and Fill Deadman Canyon; Plate 15, Sheets 3, 4, 9, 10, 11, 12, and 19 Cross Sections; and, Plate 16 Post Mining Hydrology final Reclamation Phase I.

The cross sections provided include the revised backfilling and grading plan areas as were necessary for highwall elimination of the site. The cross sections provided include the original, as constructed, and final reclamation profiles. The Cross sections also include the disturbed surface boundary and extent beyond the disturbed area sufficiently to observe the natural slopes adjacent to the disturbed areas.

Two additional cross sections were added to the drawings (46+00 and 47+00) to detail the Apex Mine portals. Other sections were revised to clearly indicate that the permitted plans on elimination of all highwalls by backfilling over the entire portal areas.

The cut and fill calculations were revised to reflect the changes in the backfilling plan for the site. Additionally, the contours in Plate 16 were revised to depict the final reclamation contours.

The backfilling and grading plan, as revised, suitably addresses deficiencies in the plan regarding highwall elimination. All highwalls will be completely eliminated on the site by backfilling. Consequently, the plan meets the requirements for highwall elimination under all conditions, including continuous mining operations and for post-SMCRA highwalls.

Findings:

Information found in the proposal was found to be adequate regarding highwall identification and elimination of all highwalls on the site.