



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

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TO: Daron Haddock, Permit Supervisor

FROM: Wayne H. Western, Reclamation Engineer *WHW*

DATE: January 7, 1994

RE: Request by Andalex for Longwall Mining, Andalex Resources, Inc.,
Centennial Project, ACT/007/019-93D, Folder #2, Carbon County, Utah

SUMMARY:

The operator wants to switch from room and pillar mining to longwall.

Permit Change Package General Comments:

The operator stated on the Detailed Schedule of Changes permit that they would: 1) add in Volume I, Table of Contents, Page XX; 2) replace pages 88-96 and 213 in Volume II and; 3) replace plates 26-31, 40 and 41 in Volume II. The submittal did not include page XX of the Table of Contents, page 213 in Volume II or plates 40 and 41 in Volume II.

Analysis:

The operator did not submit all of the additional or replacement materials described in the Detailed Schedule of Changes.

Deficiencies:

1. The operator will supply the Division with page XX of the Table of Contents in Volume I.
2. The operator will provide the Division with a replacement copy of page 213 Volume I.
3. The operator will provide the Division with replacement copies of plates 40 and 41 in volume II.



R645-301-521.141 Mine Maps and Permit Area Maps

Operator's Proposal:

The operator submitted Plate 28, in the permit change application. Plate 28 shows coal isopachs and the current and projected mining projects in the Pinnacle Mine and the coal isopachs. The plate was prepared on July 1, 1993.

Analysis:

The Pinnacle Mine's plan has changed since Plate 28 was revised on July 1, 1993. The operator has now found that there is enough minable coal for an additional longwall panel. The new panel will be located in the northeast corner of the permit area.

The new panel location is significant because of the potential for subsidence to occur outside the permit area. The operator needs to supply the Division with an update copy of the Pinnacale Mine map.

Deficiencies:

1. The operator will include the new longwall panel and any other projected mining operations in the Pinnecale mine on Plate 28.

R645-301-525.140 Monitoring, if any, to determine the commencement and degree of subsidence so that other appropriate measures can be taken to prevent or reduce material damage;

Operator's Proposal:

The operator did not address this issue in the permit change package. The existing monitoring plan was developed for room and pillar mining.

In a personal conversation with the operator I was told that the current room and pillar operation have up to a 90% extraction. Subsidence for longwall mining should be similar to that for a room and pillar operation.

Analysis:

The existing subsidence monitoring plan does not have enough stations to determine the parameters needed fro subsidence predictions.

Deficiencies:

1. The operator will establish and maintain a subsidence monitoring program. The program will determine the vertical and horizontal displacements and strains. The monitoring points shall be space approximately every 100 feet where practical.

R645-301-525.150 **A description of the anticipated effects of planned subsidence**

Operator's Proposal:

The operator did not address this issue in the permit change application.

Analysis:

The operator did not address this issue in the permit change application. The operator stated in the mine and reclamation plan that subsidence will occur in areas that have renewable resources.

Deficiencies:

1. The operator will provide the Division with a map that shows the projected maximum extent of horizontal movement due to subsidence (where the angle of draw intersects the surface).

PERMIT AMENDMENT APPROVAL

Title: <u>Longwall Mining</u>	PERMIT NUMBER: <u>ACT/002/019</u>
Description: <u>Change from Room & Pillar to Long wall mining</u>	PERMIT CHANGE #: <u>93D</u>
	MINE: <u>Centennial</u>
	PERMITTEE: <u>Andalex Resources</u>

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

	YES, NO or N/A
1. The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	Yes
2. The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	Yes
A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	
B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	
3. For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	Yes
4. The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	Yes
5. The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	Yes
6. The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	Yes
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	Yes
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	Yes
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	Yes
10. The Applicant has satisfied the applicable requirements of R645-302.	Yes
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	Yes

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

	YES	NO
1. Are there any variances associated with this permit amendment approval? If yes, attach.		X
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.		X
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.		X

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed _____

Donna R. Haddock
 Director, Division of Oil, Gas and Mining

1/12/94
 EFFECTIVE DATE