



# 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

September 29, 1988

TO: Sue Linner, Permit Supervisor

FROM: Randy Harden, Reclamation Engineer 

RE: Mine Permit Review, Technical Analysis, Coal Lease Addition, Andalex Resources, Inc., Centennial Project, ACT/007/019, Folder #2, Carbon County, Utah

Information regarding the Technical Analysis of the proposed addition of two new lease areas and modifications to existing leases within the mining and reclamation plan for Andalex Resources as listed below:

UMC 817.59 Coal Recovery - JRH

Existing Environment and Applicant's Proposal

The underground permit application submitted for renewal and modification by Andalex proposes to add new lease areas to their current permit area. The new lease area consists of 320 acres of federal lease and 240 acres of fee. Total lease area for the permitted area is as follows:

<u>LEASE</u>	<u>TOTAL</u>	<u>ADDITIONAL</u>	<u>CURRENT</u>
ZION FEE	200	0	200
SL-027034	236	116	120
SL-063058	400	160	240
U-010581	1,842	160	1682
U-52341	120	0	120
U-05067	320	320	0
SUNEDCO FEE	240	240	0
<b>TOTAL ACREAGE</b>	<b>3358</b>	<b>1006</b>	<b>2352</b>

Locations for the leases and lease modifications can be identified in the plan on Plate 4. Development and production from these new and modified leases will be from the existing adjacent facilities. No new surface disturbance or additional surface facilities will be required in conjunction with the utilization of these new leases.

Mining methodology for the new areas is similar to that of the existing permit for Andalex. Mining will be conventional room and pillar methods with utilization of continuous miners. No longwall mining is anticipated for the project.

Coal contours and layout for mining of the three coal seams is found on plates 29-31 of the proposal.

Andalex indicates that there is approximately 52.5 million tons of reserves of which, 34.5 million tons are considered to be recoverable. To date, Andalex has mined approximately 3.5 million tons. Coal reserves include three mineable seams, the Lower Sunnyside, the Gilson, and the Aberdeen. Portals are proposed to be driven for each of the three seams. Only the Aberdeen seam is yet to be developed. Mine facilities for the other two seams are currently in existence.

Mining will be accomplished in all three seams utilizing standard room and pillar methods with continuous miners. The operator has submitted for approval and/or has received approval for roof control, ventilation and mining sequence plans from the BLM and MSHA.

Production of the mining facilities, which requires the simultaneous mining of all three seams is expected to gradually increase to 1.5 million tons per year in 1990 and remain constant throughout the life of the mining operations. The estimated life of the mine is approximately 20 years.

Sequence and timing of the mining operation is provided by the operator on plates 29, 30 and 31. Existing and abandoned mine workings are also provided on these drawings. Details of the current mine workings and the ventilation plan are provided on plates 32 and 33. No mining of the Aberdeen seam has yet occurred by the operator.

### Compliance

This section of the regulation is considered to be complete and technically adequate. The operator has detailed the timing and the sequence of the mining operation for the permit term and has indicated the extent of the mining are throughout the projected life of the mine.

Lease modifications and new lease information has been included and incorporated into the mining and reclamation plan.

All necessary surface facilities required are under the permit requirements of the existing Mining and Reclamation permit for Andalex. Details and comments relating to the surface facilities will be found in comments relating to the entire permit and will not be found in this section or other parts of the Technical Analysis for the addition of these new coal lease areas and lease modifications.

Stipulations

None.

UMC 817.71 Disposal of Excess Spoil and Underground Development Waste:

General Requirements - JRH

Existing Environment and Applicant's Proposal

The operator has addressed information regarding the requirements of this section on pages 190-192 of the proposal.

The operator indicates in part UMC 784.19 that there has been no development waste or excess spoil and there will be none. The operator further states that raw coal (run-of-mine coal) is the only product from the mine and that there are no coal processing waste facilities within the permit area.

The operator states that the only spoil material which will be developed at the minesite will be sediment pond waste. Waste material developed underground is anticipated to remain underground or will be placed in an area which will report to a sediment pond.

The operator has designated a non-coal waste storage location. The operator intends on utilizing the existing waste material as fill material in the construction of the Aberdeen Mine site. Once the construction of the Aberdeen site facilities are complete, the operation indicates that there will be insufficient area for the temporary as well as permanent storage of these materials and wishes to have the materials disposed of off-site.

The operator has provided analysis of the existing sediment pond material for determination as to whether or not the material is acid or toxic forming material. This information is found in Appendix O of the mining and reclamation plan.

Compliance

All facilities regarding the storage, treatment and disposal of excess spoils and mine development waste exist within the existing Mining and Reclamation Permit except for the proposed construction of the sediment pond and portions of those facilities located on BLM Right-of-Way Permit U-62045. No new surface facilities are proposed within the new coal lease areas.

In as much as this technical review is directed at any facilities found within the modified and new coal lease areas, no impact regarding the disposal of excess spoils and mine development waste is needed. This section of the regulations is considered to be complete regarding only those new lease additions and modifications to the Mining and Reclamation Plan.

Refer to prior technical reviews regarding the disposal of excess spoil and mine development waste and those related facilities required for the Mining and Reclamation Plan.

Stipulations

None.

cc: B Team  
WPOB15/35-37