Note:
If the reserves in this area are economically recoverable they will be accessed from panel B.

Note:
If Andalex acquires the rights to mine the fringe area of the Centennial Seam on American Electric Power property access will be from 2nd West. The addition of the A.E.P. reserve could extend the life of the Centennial Seam by 3 years.

The Centennial Seam will be divided by a set of North-South mains. Entries will develop West and East off of the mains to the economical mining limits of the seam. Due to the adverse roof conditions encountered to date it is not known if full pillar extraction will be attempted. Alternate first mining plans are being considered at this time to assure maximum economic recovery. The number of entries may vary depending on mining conditions.

Submitted BLH 11-12-91
Given to Abe Allos

Note:
As depth of cover increases entry centers may change to assure stable conditions.

Note:
These entries will extend to the economical mining limits of the seam.

Pinnacle Mine
Centennial Seam

Pinnacle Mine
Gilson Seam

Apex Mine
Lower Sunnyside Seam

Tunnel access from Gilson seam to Centennial seam 650' at 12% grade.

Andalex Resources, Inc. Fee
Federal Lease SL-027304 (H)

Federal Lease U-010581
Federal Lease SL-027304

Note:
Orientation of entries and extent of mining may vary depending on conditions encountered (rock partings, burn, bad roof, seam thickness, etc) The pillar size, number of entries and the barrier pillar width may vary depending on total cover, coal thickness, interbanding, ventilation, ground control, etc.
Main entries and associated barrier pillars will be recovered upon retreat as far as economics and prudent mining practices will allow.

NOTES:
1. Last Updated: _____
2. (A) NORTH,42420 EAST,42281, at 7029
(B) NORTH,36530 EAST,37574, at 7172
(C) NORTH,47560 EAST,42530, at 7173
3. Federal Lease U-010581, SL-027304 and SL-063078
Section 7, 8, 9 and 16 T13S R12E Salt Lake
Carbon County
Utah
4. Basis of bearing Utah State coordinate system.
5. Average Sandstone and Conglomerate are 8.5 ft. Contours.
6. Fan Openings (measured 10 ft from fan, 6'
Mill Vortex, 1180 cfm
Valuair 2125FT cfm
Water Gauge 10"
Blade Setting 10°
7. There are no existing oil or gas wells located on property.
8. There are no known water pools located above the mine.
9. All electrical transformers and main mine pumps are vented directly to the return via 6" galvanized steel pipe.
10. Pinnacle Mine Centennial Seam is approximately 80' below the Apex Mine Sunnyside Seam, 50' above the Pinnacle Mine Gilson Seam and 120' above the American Mine Wheelman Seam.

LEGEND

| | | | |
|---|---|---|---|
| Intake Air | | Permanent Survey Station | |
| Return Air | | Lease Boundary | |
| Primary Escapeway | | Outer Boundary | |
| Secondary Escapeway | | Drill Hole | |
| Stopping | | Proposed Stopping | |
| Stopping w/ Inwdoor | | Proposed Stopping w/ Inwdoor | |
| Stopping w/ Hole | | Proposed Seal | |
| Stopping w/ Hole and Door | | Proposed Regulator | |
| Equipment Source | | Burn Line | |
| Seal | | Overburden Contour | |
| Overcast | | Seam Outcrop | |
| Box Check | | Pillar Extraction | |
| Travel Curtain | T | Pillar to be left to maintain Wheelman entry | |
| Check Curtain | C | Trapdoor Curtain | |
| Regulator | R | Pump | |
| Substation and Line | | | |
| Electric Transformer | | | |
| 7200 Volt E/S Cable | | | |
| Power Disconnect | | | |
| Lifelight Power Line | | | |
| Battery Charger | | | |
| Check Survey | | | |

CENTENNIAL PROJECT
SEAMING CHART
CASTLE GATE SANDSTONE
LOWER SUNNYSIDE COAL SEAM
LOWER SUNNYSIDE SANDSTONE
CENTENNIAL COAL SEAM
GILSON COAL SEAM
KENILWORTH SANDSTONE
ANDERSON COAL SEAM
ANDERSON SANDSTONE
SANDS SHALE
BLACKHAWK FORMATION
GENERALIZED BEDTOP, BLACKHAWK FORMATION

1991 Developement Only
1991 Developement & Pillars
1991 Developement & Slab
1991 Pillars Only

I, Bruce T.S. Vare, do hereby certify that I am a registered land surveyor, that I hold certificate no. 4892, as prescribed by the state of Utah that this survey was made by me and is true and correct as shown hereon.

ANDALEX RESOURCES, INC.
Tower Division

Pinnacle Mine
Centennial Seam
P.O. Box 902
Price, Utah 84501

Scale: 100' 0' 200' 400'

ACAD REF:CENTEXT