Alpha Natural Resources

Utilization of Belt Air at Room & Pillar Coal Mines
**Business Unit Locations**
Operations as of February 1, 2007

- **AMFIRE**
  - 5 Underground mines
  - 13 Surface mines
  - 2 Preparation plants

- **Kingwood**
  - 1 Underground mine
  - 1 Preparation plant

- **Brooks Run**
  - 3 Underground mines
  - 1 Surface mine
  - 1 Preparation plant

- **Welch**
  - 12 Underground mines
  - 2 Preparation plants

- **Callaway**
  - 3 Surface mines

- **Enterprise**
  - 3 Underground mines
  - 3 Surface mines
  - 1 Preparation plant

- **Paramont**
  - 8 Underground mines
  - 6 Surface mines
  - 1 Preparation plant

- **Dickenson-Russell**
  - 6 Underground mines
  - 1 Surface mine
  - 2 Preparation plants
Deep Mine Characteristics

◆ Room & Pillar Type Mining.

◆ Single & Supersection CM fleets utilizing continuous haulage and shuttle cars.

◆ Mining height ranges from 36 – 96 inches.

◆ Sweep and Fish-tail ventilation schemes.

◆ Typically crop-accessed reserve boundaries although some below drainage operations.
Alpha Mines that use Belt Air for Face Ventilation

Amfire Mining
- Gilhouser Run Mine
  - 1 unit w/ continuous haulage
- Madison Mine
  - 2 units w/ 1 continuous haulage, 1 shuttle cars
- Nolo Mine
  - 3 units w/ shuttle cars
  - Methane
- Dora (applied)
  - 1 unit w/ continuous haulage
  - Methane
Kingwood Mining Whitetail Mine
- 4 units w/ shuttle cars
- Methane
- Difficult roof

Paramont Coal Company
- Deep Mine 26
  - 4 units w/ shuttle cars
  - Methane
- Deep Mine 35
  - 2 units w/ shuttle cars
  - Methane

Black Dog Coal Corp. #2 Mine
- 1 unit w/ shuttle cars
- Methane
New or Proposed Mines

Brooks Run Cucumber Mine
- 2 units: supersections w/ shuttle cars
- Methane

Enterprise Mining Company # 9
- 2 units: supersections w/ shuttle cars
- Methane
Why we need Belt Air!

- Inconsistent seam conditions / rolls – hard to maintain required number of entries.
- Roof conditions / maintaining entries outby problematic.
- Methane control / more volume and pressure for face use.
- Monitoring systems are tools we should use!
Why we need Belt Air!

- Volume used to ventilate belt entries takes away from pressure that is better used behind the face curtain.
- Difficult to keep belt air out of the face.
- Roof issues associated with more entries / arcing due to width.
- Less total volume required / less pressure / less leakage / better balance.
In Closing

- Use of Belt air in conjunction with monitoring systems is safe and prudent because it allows more volume and higher pressure at the point where it’s needed the most: at the mine face!