

APPENDIX B

EXISTING LONGWALL EQUIPMENT

Shearer

- Type - Joy 6LS06 - U70D72LK Multimotor DERDS
- Dimensions - Height = 82.75 in max.
- Arm Length = 100 in hinge to drum center
- Drum Centers = 524 in
- J750 ranging arms
- Weight = 110 tons
- Drum Diameter = 74 in
- Drum web = 32.5 in
- Precut Drum = 7.1 in extension
- Max. Haulage speed = 45 ft/min. Nominal 26 ft/min.
- Power = 4160 V AC @ 60 Hz
  - cutting motors: 1000 Hp
  - tram motors: 95 Hp
  - lumpbreaker motor: 175 Hp
  - hydraulic pump motor: 35 Hp

AFC

- Type - DBT PF-5 - 1132
- Dimensions - Width = 1 m
- Length = 1.75 m (750 ft.) and 1.5 m (125 ft.)
- Chain size = 42 x 146mm Twin Strand
- Drive Frames - TG: DBT MR45 1100 extensible drive frame (2 each)
- HG: DBT MR45 1100/1300 cross frame (2 each)
- Drive power = 2 x 1000 hp (4 motors)
- Gearboxes = DBT KP-45 39:1 ratio
- Power = 4160 V AC @ 60 Hz
- Sprockets = split design, 7 tooth
- Fluid Couplings = Voith 750

Stageloaders (2 available)

- Type - Westfalia (DBT) PF 4-1332
- Dimensions - Width = 1332 mm
- Length = 85' approx.
- Capacity = 3500 T/hr. manufacturer rated
- Chain size = 34 x 126mm Twin Strand
- Gearbox = DBT K-10 24:1 ratio
- Drive Frame = DBT SPR3, tensionable
- Fluid Coupling = Voith 562 TVFB
- Power = 400 Hp, 4160 V AC @ 60 Hz

- Crusher - DBT SK11 14/18, 400 Hp, Voith 562 TVF fluid coupling
- 8 impact bits, 5000 tons/hr rated capacity, 1800 mm crushing width

## 108 Supports

- |            |   |   |
|------------|---|---|
| Type       | - | Meco 155716-00-10                             |
| Dimensions | - | Configuration = 2 leg                         |
|            | - | Rating = 750 ton                              |
|            | - | yield rating = 6350 psi                       |
|            | - | 1.75 m unit centers                           |
|            | - | heights = 144 in. working, 150 in. max.       |
|            | - | advance = 30 in. working, 36 in. max.         |
|            | - | unit advance = 51.4 tons face, 77.9 tons gate |
|            | - | AFC push = 17.88 tons face, 44.4 tons gate    |
| Controls   | - | MS 40 electronic control system               |
|            | - | Compak valve pack                             |