ARMPSHWM module build: 1.1.06
Project File: UnTitled
Input Units: (ft) (psi)

[PROJECT TITLE]
Quality Coal, Dutton Hill #2

[PROJECT DESCRIPTION]
Mary Lee Augering

[DEVELOPMENT GEOMETRY PARAMETERS]
Extraction Thickness.....1.7 (ft)
Depth of Cover.....180 (ft)
Hole Width.....5.1 (ft)
Web Thickness.....1.7 (ft)
Barrier Pillar Width.....8.1 (ft)
Number of Holes.....20

[DEFAULT PARAMETERS]
In Situ Coal Strength.....900 (psi)
Unit Weight of Overburden.....162 (pcf)
Abutment Angle of Gob.....21 (deg)

[ARMPS-HWM STABILITY FACTORS]

Overall.....2.00
Webs ONLY.....1.31
Barrier Pillar.....1.50

Panel width (excluding barriers).....134.30 (ft)
Barrier pillar width-to-height ratio.....4.76
Web thickness-to-height ratio.....1.00
Extraction ratio.....71.63 %

[PILLAR PARAMETERS]

| PILLAR | ENTRY CENTER (ft) | MINIMUM DIMENSION (ft) |
|---|---|---|
| Barrier | 13.20 | 8.10 |
| Web | 6.80 | 1.70 |

| PILLAR | AREA (ft)*(ft) | STRENGTH (psi) |
|---|---|---|
| Barrier | 8.10E+06 | 2.89E+03 |
| Web | 1.70E+06 | 1.06E+03 |

To view the distribution of Pillar Load Bearing Capacity
select 'View Plots->Settings->Pillar Load Bearing Capacity'

ARMPSHWM module build: 1.1.06
Project File: P:\Quality -- Coal -- Dutton Hill -- Mine No 2\Auger Design.ARH
Input Units: (ft) (psi)

[PROJECT TITLE]
Quality Coal, Dutton Hill #2

[PROJECT DESCRIPTION]
Blue Creek Augering

[DEVELOPMENT GEOMETRY PARAMETERS]
Extraction Thickness.....1.7 (ft)
Depth of Cover.....200 (ft)
Hole Width.....5.1 (ft)
Web Thickness.....1.9 (ft)
Barrier Pillar Width.....9.1 (ft)
Number of Holes.....20

[DEFAULT PARAMETERS]
In Situ Coal Strength.....900 (psi)
Unit Weight of Overburden.....162 (pcf)
Abutment Angle of Gob.....21 (deg)

[ARMPS-HWM STABILITY FACTORS]

Overall.....2.09
Webs ONLY.....1.35
Barrier Pillar.....1.51

Panel width (excluding barriers).....138.10 (ft)
Barrier pillar width-to-height ratio.....5.35
Web thickness-to-height ratio.....1.12
Extraction ratio.....69.29 %

[PILLAR PARAMETERS]

| PILLAR | ENTRY CENTER (ft) | MINIMUM DIMENSION (ft) |
|---|---|---|
| Barrier | 14.20 | 9.10 |
| Web | 7.00 | 1.90 |

| PILLAR | AREA (ft)*(ft) | STRENGTH (psi) |
|---|---|---|
| Barrier | 9.10E+06 | 3.18E+03 |
| Web | 1.90E+06 | 1.12E+03 |

To view the distribution of Pillar Load Bearing Capacity
select 'View Plots->Settings->Pillar Load Bearing Capacity'