U. S. Department of Labor

Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880-1000

JUL 14 2008

Mr. Michael A. Vaught
Safety Director
Performance Coal Company
P.O. Box 69
Naoma, WV 25140

Dear Mr. Vaught:

Subject: Supplement (3rd) to the Roof-Control Plan, Upper Big Branch Mine-South, I.D. No. 46-08436, Performance Coal Company, Montcoal, Raleigh County, West Virginia, Permit No. 4-RC-11-94-12307-11, approved October 25, 2005

Your supplement, received on July 7, 2008, to the roof-control plan, has been reviewed and is approved as shown on the enclosed page(s). This approval is based upon a District review by representatives of the Mine Safety and Health Administration and upon receipt becomes part of the approved plan.

Should you have any questions concerning your roof-control plan, please contact Don Winston at this office, (304) 877-3900, Extension 130.

Sincerely,

Robert G. Hardman
District Manager
Coal Mine Safety and Health, District 4

Enclosure

cc: State Inspector-at-Large, Oak Hill Division (1 encl.)
Mount Hope Field Office (3 encl.)
Don Winston (1 encl.)
Files/cls

Performance Coal Company
P.O. Box 69 Naoma, WV 25140

July 3, 2008

Mr. Robert Hardman
Mine Safety and Health Administration
100 Bluestone Road
Mt. Hope, WV 25880-1000

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID : 46-08436
State ID: U-3042-92
Block Shear Plan

Dear Sir:

Enclosed for your review and approval please find the block shear plan for the Upper Big Branch Mine. This shear plan is to allow belt to cross to the main belt line. The center entry will need to be sheared to allow a belt to convey coal from the face during the development stage. The left-hand entry needs to be sheared to allow a belt to be utilized during Longwall mining.

If you have any questions or comments, feel free to contact me at (304)854-3516.

Respectfully Submitted,
Performance Coal Company, Inc.

Eric Lilly
Mine Engineer

virgin block armps

ARMPS module build: 5.1.22
Project File: UnTitled
Input Units: (ft) (psi)

[PROJECT TITLE]

[PROJECT DESCRIPTION]

[DEVELOPMENT GEOMETRY PARAMETERS]
Entry Height.....6 (ft)
Depth of Cover.....1000 (ft)
Crosscut Angle.....90 (deg)
Entry Width.....20 (ft)
Number of Entries.....5
Crosscut Spacing.....100 (ft)
Center to Center Distance #1.....100 (ft)
Center to Center Distance #2.....100 (ft)
Center to Center Distance #3.....100 (ft)
Center to Center Distance #4.....100 (ft)

[DEFAULT PARAMETERS]
In Situ Coal Strength.....900 (psi)
Unit Weight of Overburden.....162 (pcf)
Breadth of AMZ.....158 (ft)
AMZ set automatically

[RETREAT MINING PARAMETERS]
Loading Condition.....DEVELOPMENT

[ARMPS STABILITY FACTORS]

DEVELOPMENT.....2.79

[DATA ABOUT THE ACTIVE MINING ZONE (AMZ)]

AMZ Width.....400.0 (ft)
AMZ Breadth.....158.0 (ft)
AMZ Area.....63200.0 (ft)*(ft)
Extraction Ratio Within AMZ.....0.36
Development Load on AMZ.....5.12E+06 (tons)

TOTAL LOADINGS ON AMZ, INCLUDING TRANSFER FROM BARRIERS

LOAD CONDITION	ABUTMENT LOAD (tons)	LTRANSBAR (tons)	LTRANSREM (tons)	TOTAL (tons)
DEVELOPMENT	0.00E+00	0.00E+00	0.00E+00	5.12E+06

R-Factor for front abutment is the percent of the total front abutment load that is applied to the AMZ.

R-Factor for side abutment is the percent of the total side abutment load that is applied to the barrier pillar (the remainder is applied to the AMZ).

LTRANSBAR is the load transferred to the AMZ from the barrier pillar between the side and active gob if the barrier's SF is less than 1.5.

LTRANSREM is the load transferred to the AMZ from the remnant barrier between the side and active gob if the remnant's SF is less than 1.5.

[PILLAR PARAMETERS]

PILLAR	ENTRY CENTER (ft)	MINIMUM DIMENSION (ft)	MAXIMUM DIMENSION (ft)
1	100.00	80.00	80.00
2	100.00	80.00	80.00
3	100.00	80.00	80.00
4	100.00	80.00	80.00

PILLAR	AREA (ft)*(ft)	STRENGTH (psi)	LOAD-BEARING CAPACITY (tons)
1	6.40E+03	4.90E+03	2.26E+06
2	6.40E+03	4.90E+03	2.26E+06
3	6.40E+03	4.90E+03	2.26E+06
4	6.40E+03	4.90E+03	2.26E+06

TOTAL LOAD-BEARING CAPACITY OF PILLARS WITHIN AMZ: 1.43E+07 (tons)

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

[BARRIER PILLAR PARAMETERS]
none

NORTH GLORY MAINS

Primary belt entry will be supported using a minimum 6' torque tension bolt on 4ft x 4ft bolt pattern.

Belt entries will typically be cut 15 ft. wide, with a maximum width of 16 ft.

50 Ton Heintzmann Jack or equivalent on 4ft x 4ft spacing.

PERFORMANCE COAL COMPANY
P.O. BOX 89, NAOMA, WV 25140

UPPER BIG BRANCH MINE

M.S.H.A. ID No. 46-08436 | WV ID No. U-3042-92

Date: 07-03-08 | SCALE: 1"=50' | DWG No. 1 of 1

DRAWN BY: Rt. 3 Staff | CHECKED BY: EL

0' 50' 100' 150'

PREPARED BY

ENGINEERING

BELT SHEAR PLAN

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