



FEB 16 2010

mini panel.

Mr. Chris Blanchard
President
Performance Coal Company
P. O. Box 69
Naoma, WV 25140

Dear Mine Operator:

Subject: Mine Ventilation Plan, Section 75.370, 30 CFR 75, Upper
Big Branch Mine-South, I.D. No. 46-08436, Performance
Coal Company, Montcoal, Raleigh County, West Virginia

This will acknowledge receipt of a revision to the ventilation plan received by MSHA on January 19, 2010, and resubmitted on February 12, 2010, for the subject mine. The proposed revision shows the LBB # 5 longwall panel in six phases: Phase one shows the current ventilation; Phase two shows installing and removing of ventilation controls to mine LBB #5 Headgate panel; Phase three shows the development of LBB Crossover; Phase four shows installing and removing ventilation controls to set up the longwall; Phase five shows the ventilation changes to start the longwall; and Phase six shows installing and removing ventilation controls to establish EP-14 and EP-15 after the completion of mining on the longwall panel.

The revision is approved and will be made a part of the approved ventilation plan for this mine. This approval is limited to the requested changes as described in the submittal letter and shown on the attached maps.

Should you have any questions concerning this matter, please contact the Ventilation Department at (304) 877-3900/Ext. 142.

Sincerely,

/s/ ROBERT G. HARDMAN

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

cc: Mt. Hope Field Office
Inspector
Field Office Supervisor
Files/nlc

SUPERVISORY ACKNOWLEDGEMENT

Initials *RM* 2/16/10 Date



FEB 16 2010

Mr. Chris Blanchard
President
Performance Coal Company
P. O. Box 69
Naoma, WV 25140

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Sincerely,

A handwritten signature in black ink that reads "Robert G. Hardman". The signature is written in a cursive, flowing style.

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



Performance Coal Company

P.O. Box 69

Naoma, WV

25140

February 5, 2010

Mr. Robert G. Hardman
Mine Safety and Health Administration
100 Bluestone Road
Mount Hope, WV 25880

MSHA
MOUNT HOPE, WV

FEB 05 2010

RECEIVED
VENTILATION

Re: Performance Coal Company
Upper Big Branch Mine
MSHA ID : 46-08436
State ID: U-3042-92
Ventilation Revision

Dear Sir:

Attached for your review and approval is a revision to Performance Coal Company's, Upper Big Branch Mine (46-08436). The revision shows mining in the Lower Big Branch portion of the mine to establish and retreat a longwall mining section. Longwall mining in this area will not begin until after the longwall has finished retreating the current panel in the Northern District. This revision consists of six phases.

Phase one shows the ventilation at the current time.

Phase two depicts the ventilation for mining the LBB #5 Headgate Panel. Intake will be coursed down the Ellis Mains to LBB 2 #4 and then to LBB#5. Where LBB 2#4 intersects the Ellis Mains, a regulator will be installed to allow a portion of the intake air to exit the mine at the Birchton Portals. The proposed primary and secondary escapeways are also shown on the map.

The phase three map shows the ventilation scheme for mining the LBB Crossover. The Crossover will be mined once the LBB Headgate Panel has been connected to the Parallel North Mains.

Phase four shows the ventilation for setting up the longwall. When the longwall is being installed, entries one and two of the LBB Crossover will be converted to intake airways. Also at this time, the two rooms driven into the longwall panel off of the tailgate will be supported using a form of cuttable cribs. A tube will be ran from these rooms to the tailgate entry to allow the air within the room to be examined.

Phase five depicts the ventilation scheme for starting the longwall. When the longwall beings mining, EP's 9, , and 12 will be activated. Also, EP - LW1, EP - LW2, MP "A", and MP "B" will be activated; these EP's and MP's will move outby with the longwall face.

EF
2-12-10

The final phase of the revision, Phase Six, shows the longwall panel completed. At this time the longwall EP's and MP's will be abandoned and the area will be monitored through the use of EP's. Proposed EP's 14 and 15 along with the proposed controls are depicted on the map. Also included with this submittal is a longwall face sketch, calculations showing resistance and head loss, a map showing the location of the nodes used for the ventilation calculations, pressure drop readings, and a map showing the location of the pressure drop readings.

An additional mine map is also included with this submittal. This map shows the entire mine with proposed intake air readings and actual fan information. The ventilation in the area of the longwall setup depicts the ventilation when the longwall mining unit, MMU 050-0, begins retreating the panel (as shown on Phase 5).

There is currently no miner's representative at the Upper Big Branch Mine. If you have any questions or concerns feel free to contact me at (304) 854-3516.

Respectfully Submitted,
Performance Coal Company, Inc.



Eric Lilly
Mine Engineer

MSHA
MOUNT HOPE WV
FEB 05 2010
RECEIVED
VENTILATION

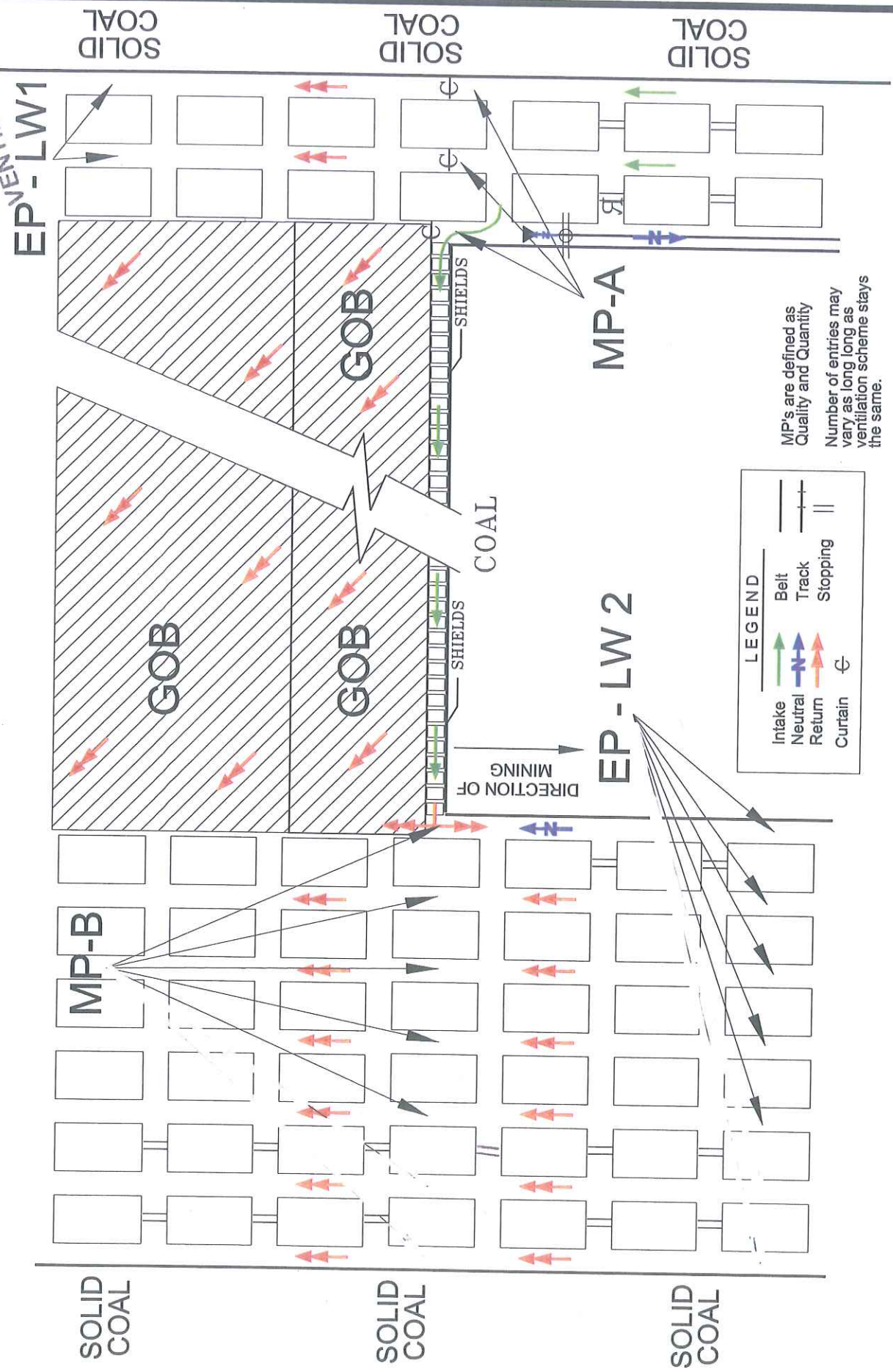
TYPICAL LONGWALL FACE VENTILATION

Performance Coal Company

Upper Big Branch Mine 46-08436 (U-3042-92)

EX
2-12-10

MOUNTAIN HOPE, WV
JAN 19 2010
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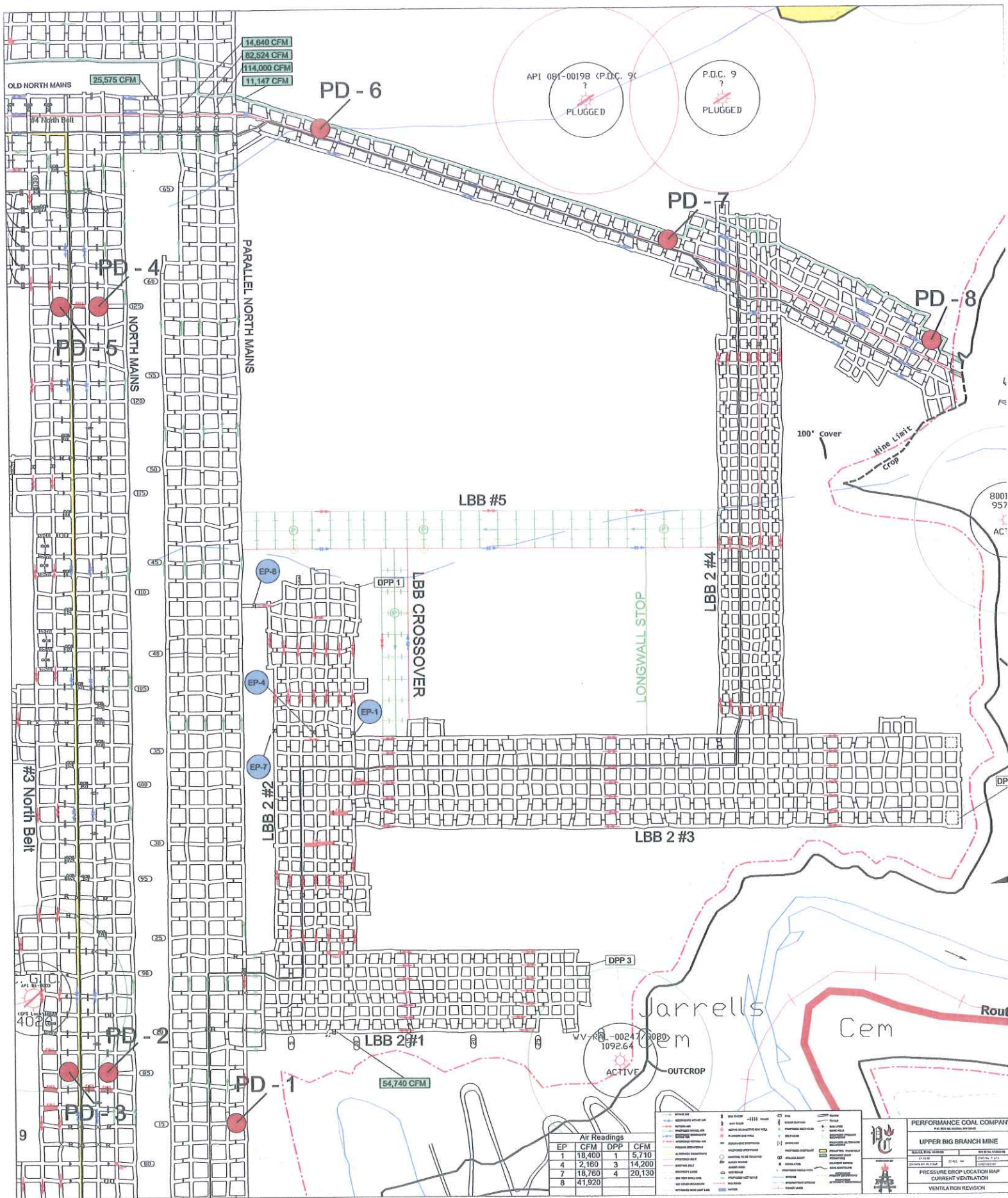


LEGEND

- Intake (Green arrow)
- Neutral (Blue arrow)
- Return (Red arrow)
- Curtain (Circled arrow)
- Belt (Line with cross-ticks)
- Track (Line with vertical ticks)
- Stopping (Line with double vertical ticks)

MP's are defined as Quality and Quantity
Number of entries may vary as long as ventilation scheme stays the same.

Not to Scale



EP	CFM	DPP	CFM
1	18,400	1	5,710
4	2,160	3	14,200
7	18,760	4	20,130
8	41,920		

<ul style="list-style-type: none"> Active Airway Plugged Airway Proposed Airway Abandoned Airway Proposed Stop Active Stop Proposed Stop Abandoned Stop Proposed Lane Active Lane Proposed Lane Abandoned Lane Proposed Road Active Road Proposed Road Abandoned Road Proposed Tunnel Active Tunnel Proposed Tunnel Abandoned Tunnel Proposed Shaft Active Shaft Proposed Shaft Abandoned Shaft Proposed Ventilation Active Ventilation Proposed Ventilation Abandoned Ventilation 	<ul style="list-style-type: none"> 100' cover Mine Limit Crop 8001 957 AC DP Jarrrells Cem OUTCROP Route 	<p>PERFORMANCE COAL COMPANY P.O. Box 85, Hazleton, PA 17801</p> <p>UPPER BIG BRANCH MINE</p> <p>Scale: 1" = 100'</p> <p>DATE: 1/22/2010</p> <p>BY: [Signature]</p> <p>PROJECT: UPPER BIG BRANCH MINE</p> <p>VENTILATION REVISION</p>
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Upper Big Branch Pressure Drop Readings

Location	Between	Reading (in. H ₂ O)
PD - 1	Intake & Return	0.75
PD - 2	Intake & Neutral	0.85
PD - 3	Neutral & Return	0.11
PD - 4	Intake & Neutral	0.45
PD - 5	Neutral & Return	0.12
PD - 6	Intake & Neutral	0.01
PD - 7	Intake & Neutral	0.05
PD - 8	Intake & Neutral	0.02

Mine Segment	Air Type	Distance	# Entries	Area	R, 1000 ft	Total R	Q beginning	Q end	Gain or Losses	Average Q	Q squared	Segment H	Total H
A to B	Intake	900	4	120	0.004	0.003	358006	295985	62021	326996	10.693	0.03608754	0.0361
B to 1	Intake	3650	5	120	0.002	0.009	295985	267887	28098	281936	7.949	0.06963131	0.1057
1 to C	Intake	465	4	120	0.004	0.002	267887	260862	7025	264374	6.989	0.01218773	0.1179
C to D	Intake	2980	1	120	0.060	0.179	150000	125000	25000	137500	1.891	0.33804375	0.456
D to Headgate	Intake	1250	1	120	0.060	0.075	125000	100000	25000	112500	1.266	0.09492188	0.5509
Headgate to Face	Intake	2900	1	140	0.060	0.174	100000	50000	50000	75000	0.563	0.097875	0.6487
Across Face	Intake						-----Estimated-----					0.1	0.7487
												Head Loss	inches of water
Face to E	Return	3150	1	140	0.120	0.378	25000	65000	40000	45000	0.203	0.076545	0.0765
E to F	Return	1100	7	120	0.002	0.003	65000	70000	5000	67500	0.456	0.0012274	0.0778
F to G	Return	1275	6	120	0.003	0.004	70000	67000	-3000	68500	0.469	0.00199421	0.0798
G to H	Return	925	1	120	0.120	0.111	67000	67000	0	67000	0.449	0.0498279	0.1296
H to I	Return	2500	7	120	0.002	0.006	70000	80000	10000	75000	0.563	0.00344388	0.133
I to J	Return	1250	7	120	0.002	0.003	80000	70000	-10000	75000	0.563	0.00172194	0.1348
J to K	Return	1400	6	120	0.003	0.005	70000	70000	0	70000	0.490	0.00228667	0.137
K to L	Return	1900	1	120	0.120	0.228	70000	80000	10000	75000	0.563	0.12825	0.2653
L to Outside	Return						-----Measured-----					1.75	2.0153
												Head Loss	inches of water
Ellis Intake 1	Intake	1325	1	120	0.060	0.080	11147	11147	0	11147	0.012	0.00098783	0.001
Ellis Intake 2	Intake	125	3	120	0.007	0.001	11147	11147	0	11147	0.012	1.0355E-05	0.001
Ellis Intake 3	Intake	375	2	120	0.015	0.006	11147	11147	0	11147	0.012	6.9894E-05	0.0011
Ellis Intake 4	Intake	2550	1	120	0.060	0.153	11147	11147	0	11147	0.012	0.00190111	0.003
												Current Head Loss	inches of water
Ellis Intake 1	Intake	1325	1	120	0.060	0.080	160000	160000	0	160000	2.560	0.20352	0.2035
Ellis Intake 2	Intake	125	3	120	0.007	0.001	160000	160000	0	160000	2.560	0.00213333	0.2057
Ellis Intake 3	Intake	375	2	120	0.015	0.006	160000	160000	0	160000	2.560	0.0144	0.2201
Ellis Intake 4	Intake	2550	1	120	0.060	0.153	160000	160000	0	160000	2.560	0.39168	0.6117
												Anticipated Head Loss	inches of water

The above calculations show the current and calculated head losses for the Upper Big Branch Mine in the area of the proposed LBB Longwall Panel. The intake data show at the top of the page is for the intake along the Parallel North Mains, down the Ellis Mains, and down the LBB 2 #4 panel to the proposed headgate and to the face at the end of the set-up entries. The calculated return for the LBB 2 #3, LBB 2 #2, and LBB 2 #1 panels is shown in the second set of calculations, this set of calculations also shows the measured head loss from Node L to the outside. The third set of calculations from the top of the page shows the current head loss for the intake along the Ellis Mains. The bottom set of calculations depicts the anticipated head loss for the intake flowing in by along the Ellis Mains after the ventilation change has been completed. The 0.6117 inches of head loss along the intake is minimal when compared to the capacity of the ventilation system. The current operating pressure of the blowing fan is 5.8" and the exhausting fan is 4.8". Fan curves for both fans are attached.

MSHA
MOUNT HOPE, WV

JAN 19 2010

RECEIVED
VENTILATION

Robinson Industries, Inc.

Fan Speed : 880 RPM

Date : 8/23/2007

Fan : 99.25" x 24.313" AF1029 with 90 deg bid kitter-SWSI

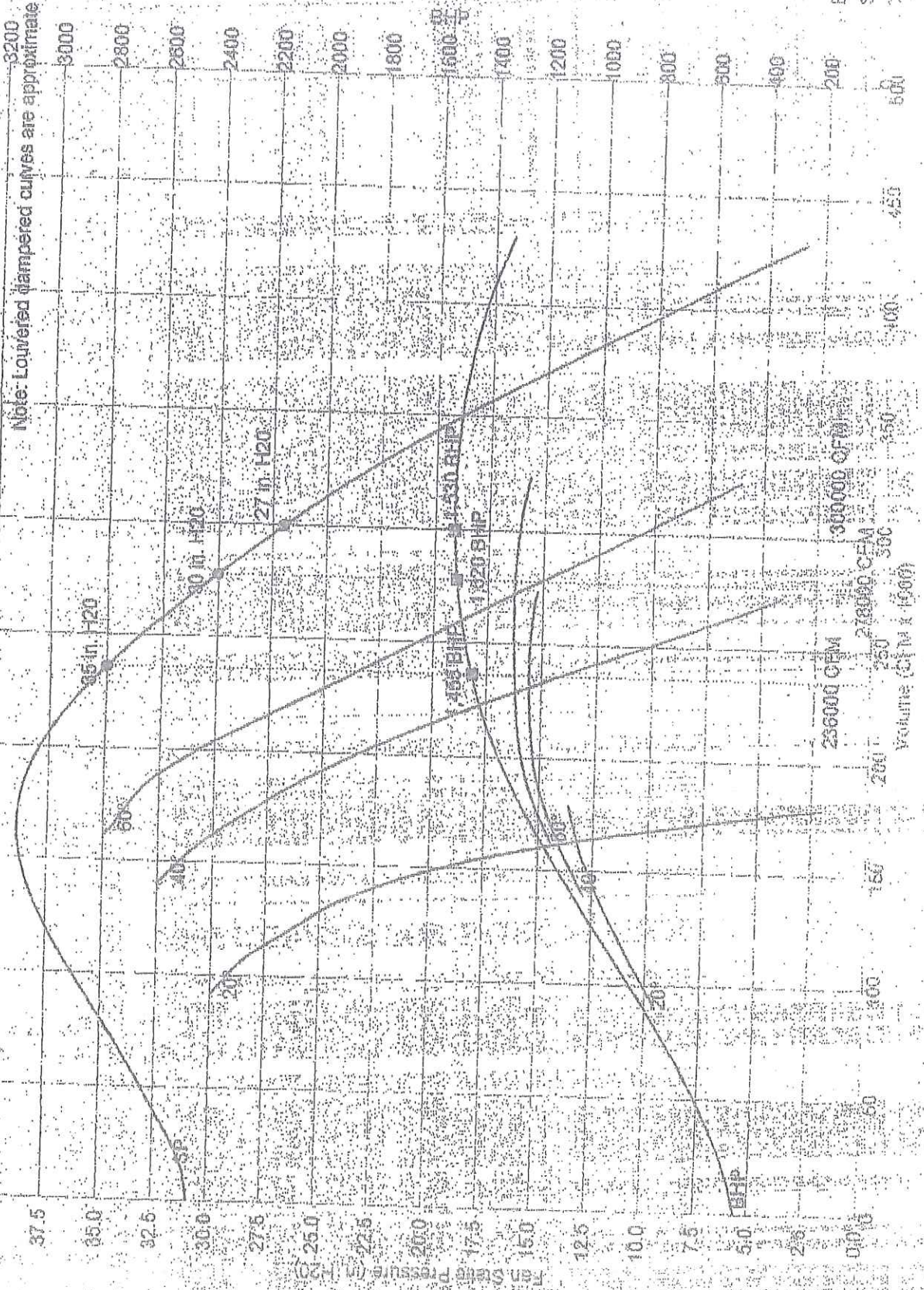
Temperature : 65 °F

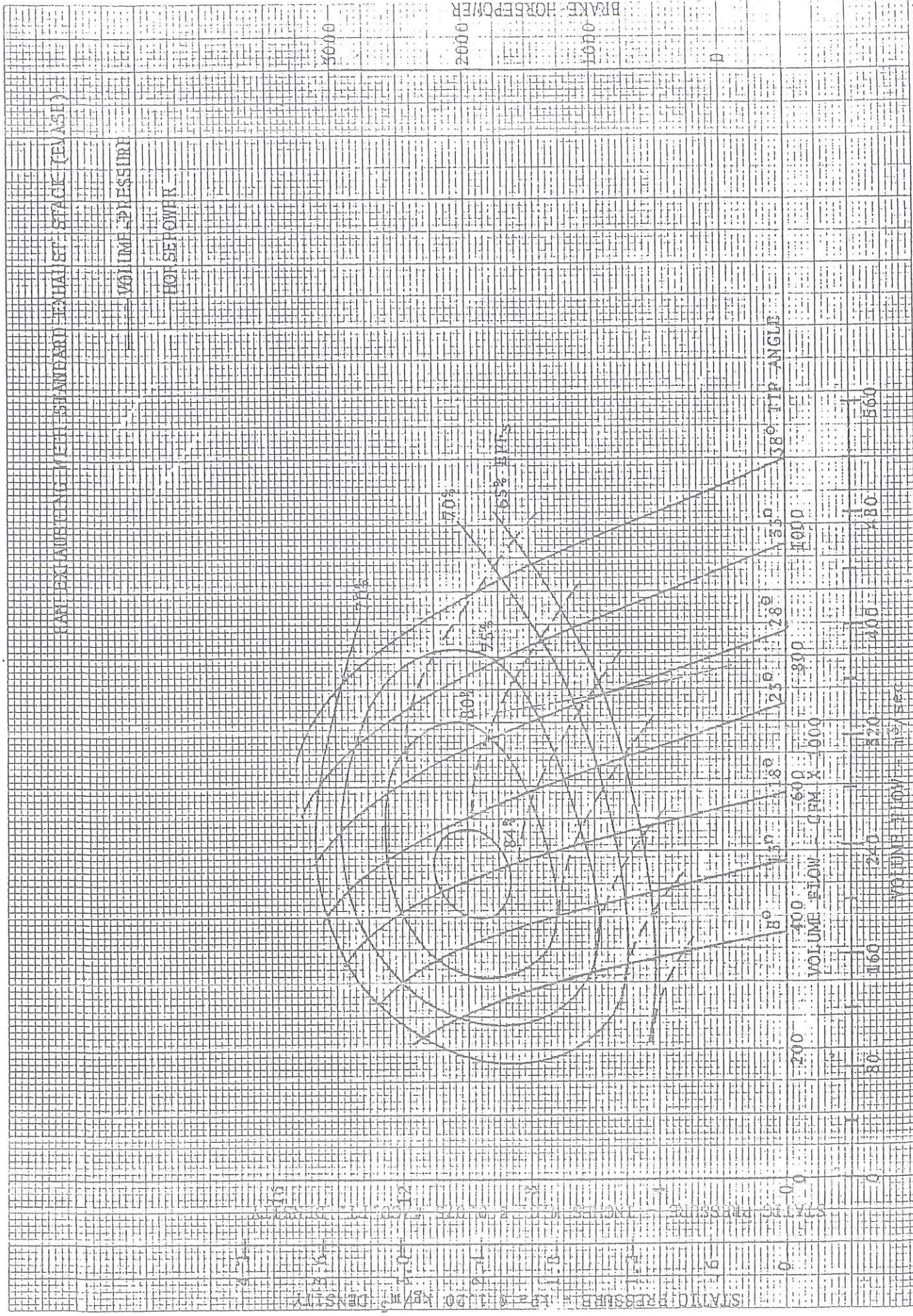
Quote Number : G51957-01

For : PAULS REPAIR SHOP

Density : 0.0709 LB/FT³

ACTUAL FAN PERFORMANCE WOULD BE BASED UPON THE PROJECT SYSTEM RESISTANCE.





FAN EXHAUSTING WITH STANDARD EXHAUST STACK (CEASE)

VOLUME PRESSURE

HORSEPOWER