

2018
Virginia Governor's Cup

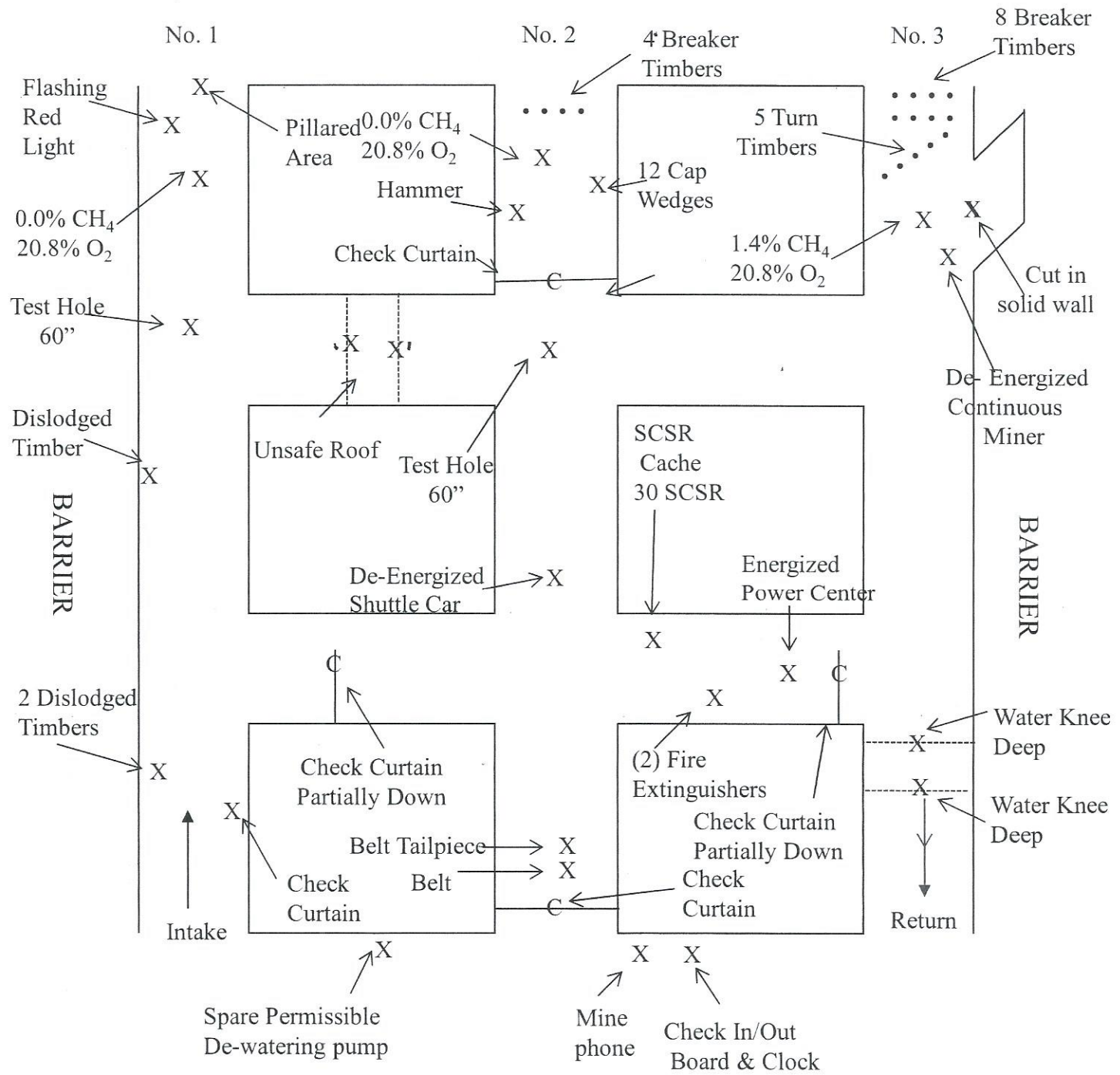
Preshift Contest

Thursday June 7, 2018

The University of Virginia's College at Wise
1 College Avenue • Wise, VA 24293
Phone: (276) 328-0100

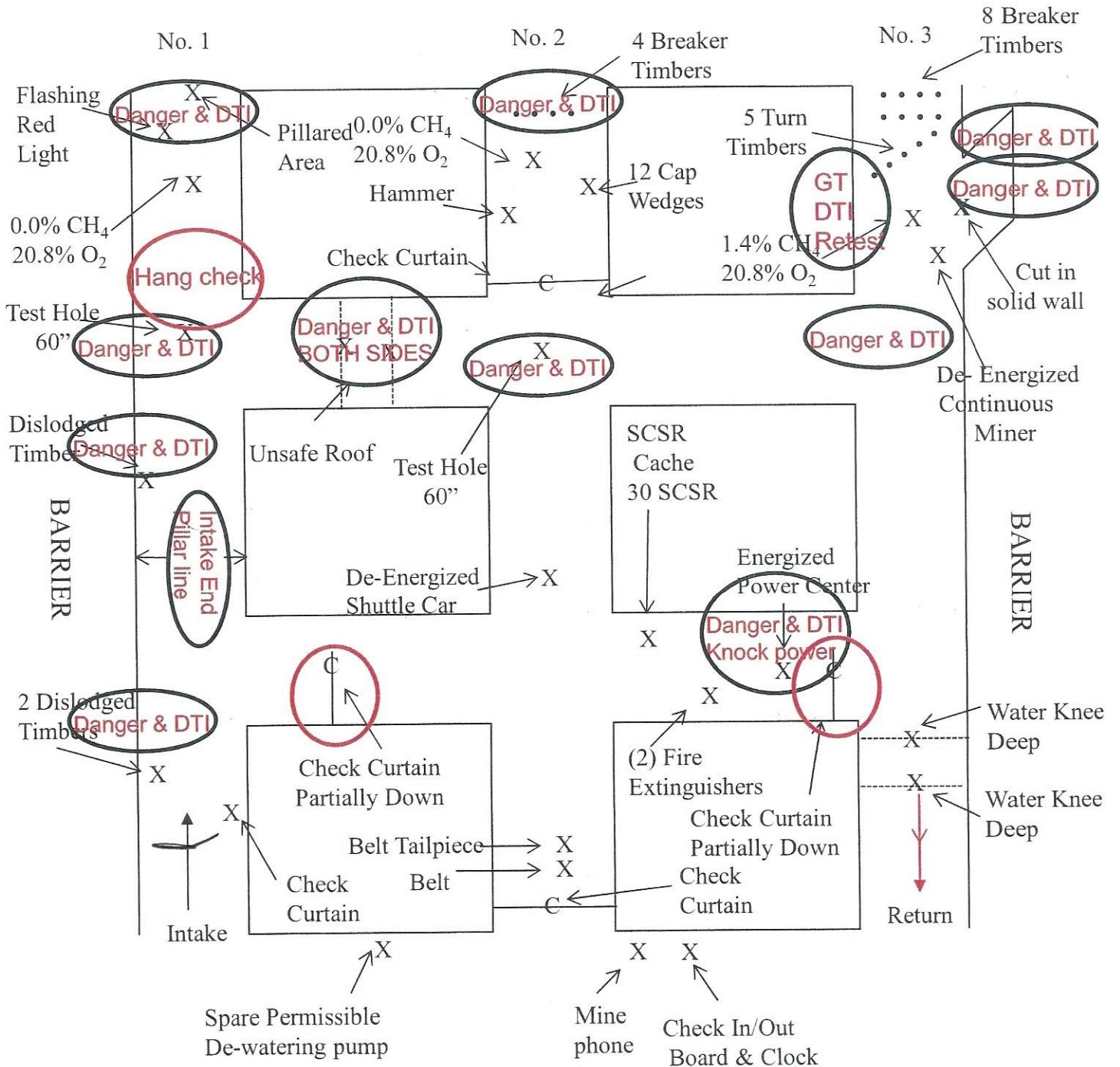
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PROBLEM MAP



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SCORING MAP



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Contestant Statement

The Big Box Coal Company No. 1 Mine mines coal in the Imboden seam with a Continuous Miner, Shuttle Cars, a Dual Head Roof Bolting Machine, and Battery-Powered Scoops. Non-permissible Rubber Tire Personnel Carriers are used for transportation underground. This single unit mine produces approximately 600 tons of coal each shift, and coal is mined on the day shift and second shift.

The mining height averages approximately 72 inches.

The # 1 entry is the main intake, # 2 entry is the conveyor belt entry, and # 3 entry is the return.

The mine employees 14 underground miners and 2 surface personnel.

The mine has been conducting retreat mining using an approved three-cut pillar plan and ventilation plan for the last 45 days. The mine fan is an exhausting fan making approximately 60,000 CFM when operating.

You are the Day Shift Section Foreman. You are to conduct a pre-shift examination for your on-coming shift.

The conditions observed during your pre-shift examination were left by the evening shift production crew.

A copy of the approved roof control plan, the approved ventilation plan and a blank mine map are all attached to this statement. If means are available the section is to be left in compliance with the approved plans and all hazardous conditions corrected.

For the contest purposes, all violations of the Title 30 CFR will be considered hazards.

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Judge's instruction

1. Show the contestant the time clock and the check in/out board.
2. A blank map, written statement (contestant statement), roof control plan, and ventilation plan will be provided. These have already been reviewed by the contestant in lock-up. Upon receipt of these materials, the contestant must start the clock within 2 minutes.
3. Contestant should take the air measurement at the intake end of the pillar line immediately outby the first open crosscut in the # 1 entry.

Provide information in box to the contestant after taking the air reading at the Intake End of Pillar line immediately outby the first open crosscut in the # 1 entry.

Height:	72 INCHES
Width:	20 FEET
Feet per minute:	110 correction factor: + 10

Do not give the total CFM, 14,400

Note: If the contestant takes an air measurement in the wrong location, and the check curtains have been installed, the information should be provided but discounts assessed for wrong location.

If the contestant takes air measurement with the ventilation controls partially installed (not according to the vent plan schematic) then the air reading will be 8,700 CFM.

Height:	72 INCHES
Width:	20 FEET
Feet per minute:	62 correction factor: + 25

Do not give the total CFM 10,440

Digital anemometers can be held in either direction.

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Judging Points

1. If the contestant only hangs the check curtain in x-cut between # 1 and # 2, there will be enough air for the Intake End of Pillar Line air reading.
2. If the contestant only hangs the check curtain in x-cut between # 1 and # 2 and the check curtain across # 1 at the pillar line, there will be enough air for the CH4 to clear in the face of # 3.
3. No timbers have to be installed at either place where there are "Dislodged Timbers", only need to be Dangered off.
4. If contestant goes into "Unsafe Roof" in crosscut between # 1 and # 2 entries then contestant has endangered self. (Rule 16.C)
5. **Q&A From 2015**
If a contestant failed to identify, danger off, or correct a hazardous condition as stated in Rule 11 and received the discount; will they also be discounted for failing to correct the hazardous condition as stated in Rule 12? **Yes**, if hazardous condition is not found the contestant will receive discounts under Rules 11 and 12.
6. In # 3 at the pillar line the contestant needs to fill out (2) Danger Cards since there are 2 Hazards. From Rule 13: "If multiple hazardous conditions exist in one area or entry, a separate danger card must be placed on the mine floor for each hazard."

Filling out the Preshift Record (Same thing as above would apply when filling out the preshift record)

Rule 3 Failure to record hazardous condition.

Rule 4 Failure to record action taken to correct hazardous condition.

Times

Written exam _____	15 minutes
Review plans in Staging area _____	10 minutes
On field start clock after giving materials _____	2 minutes
Work problem on field _____	30 minutes (warn when 1 minute left)
Fill out record _____	20 minutes
After posting name time to appear _____	60 minutes
Review and prepare written protests _____	20 minutes

PRESHIFT-CERTIFIED EXAMINER'S REPORT

Date of Examination: _____
 Section/Area: _____
 Reported By: _____

Time From: _____ AM PM To: _____ AM PM
 Reported Outside? Yes ___ No ___ Time: _____ AM PM
 Received By: _____ (INITIAL)

Pre-Shift required within 3 hours prior to any 8-hour interval

Location	Hazardous Condition	Action Taken	CH ₄
No. 1 Entry outby 1 st xcut	2 Dislodged timbers	Dangered off	
1 st crosscut between 1 & 2	Check curtain down	Installed check curtain	
No. 1 Entry inby 1 st crosscut	Dislodged timber	Dangered off	
No. 1 Entry at 2 nd crosscut	Test hole only 60" deep	Dangered off	
2 nd crosscut between 1 & 2	Unsafe roof	Dangered off both sides	
No. 1 Entry at pillar line	No check curtain installed	Hung check curtain	0.0%
No. 1 Entry at pillar line	No breaker posts installed	Dangered off	
1 st crosscut between 2 & 3	Power Center within 150' of pillar line	De-energized power on power center, Dangered off	
1 st crosscut between 2 & 3	Check curtain down	Installed check curtain	
No. 2 entry at 2 nd crosscut	Test hole only 60" deep	Dangered off	
No. 2 Entry at pillar line	Only 4 breaker posts installed	Dangered off	0.0%
No. 3 entry at 2 nd crosscut	No test hole drilled in intersection	Dangered off	
No. 3 entry at pillar line	1.4% CH ₄	Hung check curtains, reduced CH ₄ to 0.0%	0.0%
No. 3 Entry inby LOCC	Mining barrier without an approved plan	Dangered off	
No. 3 Entry inby LOCC	Mining right to left without an approved plan	Dangered off	

* Roadways * Travelways * Track Haulageways Entries * Working Section * Areas Equipment Installed or Removed * Approaches to Worked out Areas
 * Intake Seals * +20Ft. Entries on Intake * Unattended Diesel * Intake High Spots * Electrical Installations Trolley Wires* * Other Work Travel Areas

Air Measurements

Location	CFM	Location	CFM
Intake end of pillar line	14,400		

Remarks: _____

 Signed by Pre Certified Examiner

 Countersigned by Mine Foreman

 Date

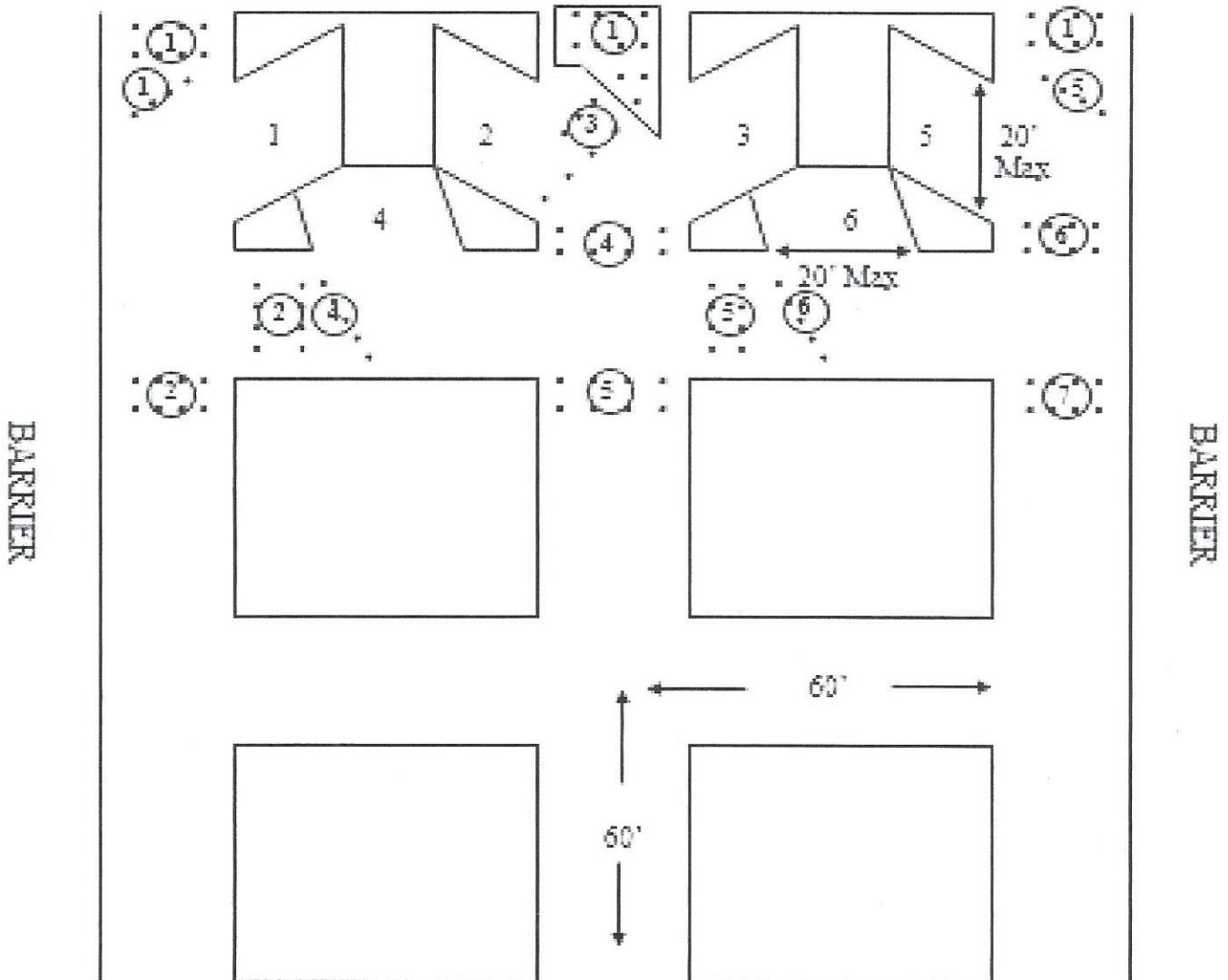
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ROOF CONTROL PLAN
3-Cut Partial Pillaring Plan Left to Right Sequence



Legend: # Indicates posts to be installed prior to mining cut number indicated within circle.

- Breaker & Roadway Posts

All pillars developed using 60' x 60' centers

Left to Right Sequence Only.

Section to be supported with 60" glue bolts during development.

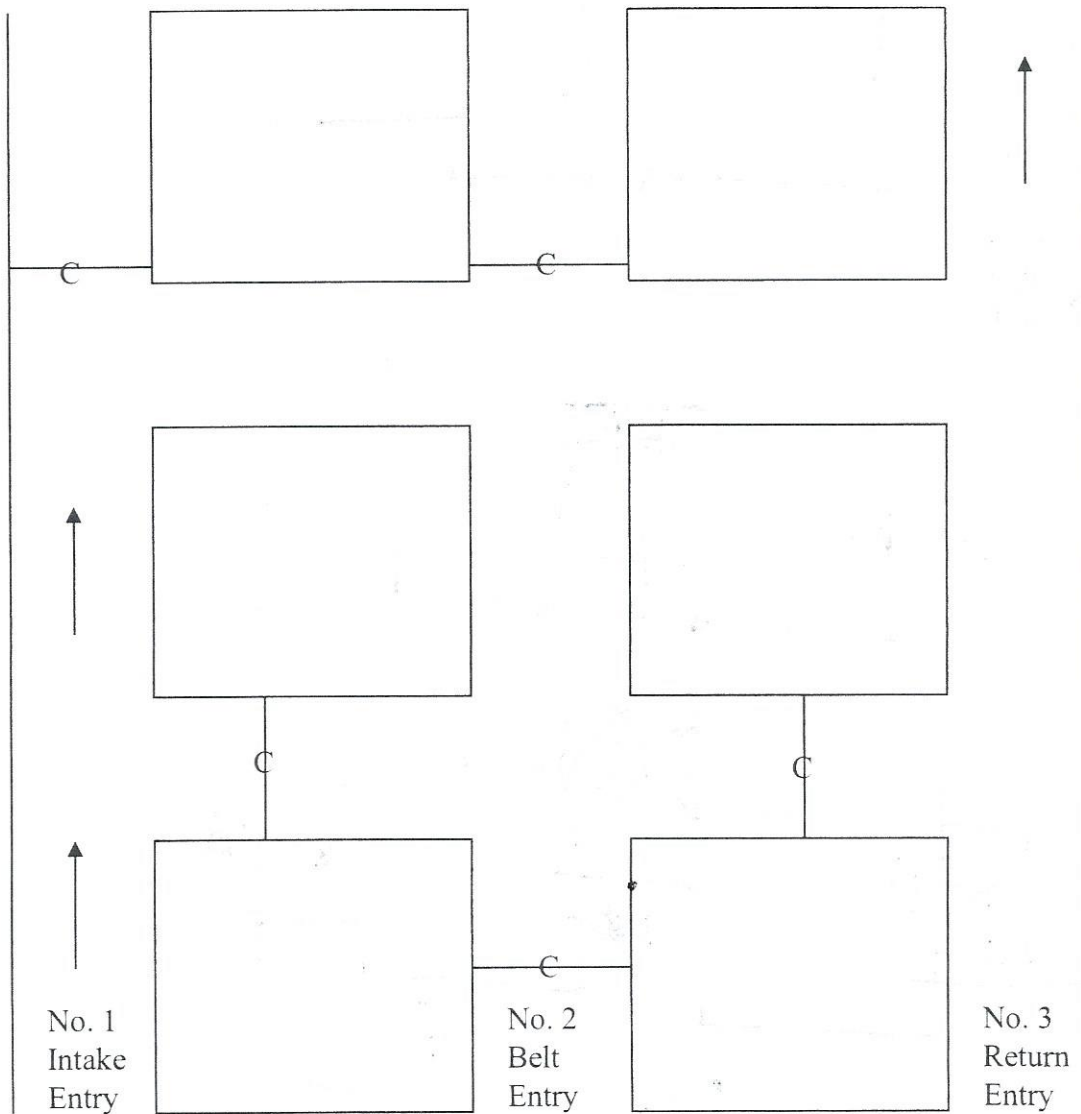
Test holes will be drilled 12" deeper than primary roof supports installed.

Prior to retreat mining test holes will be drilled in each intersection outby the block being mined.

Test holes in the intersection in each entry just outby pillar line will be examined during preshift examination.

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VENTILATION PLAN



- A minimum of 12,000 CFM required at the intake end of the pillar line.
- All pillared panels will be ventilated to the inby end of the panels and connected to a bleeder system.
- Only air movement is required in the immediate return.
- Ventilation showing all entrances checked off except for the entry where continuous miner is operating.