

2015 Energy Expo

Pre-Shift Contest

October 8, 2015



**Ridgeview Middle School
Clintwood, Virginia 24228**



Energy Expo Preshift Contest

Thursday October 8, 2015

Chief Judge Hersh Hayden

Appeals

Score Card Examiners
Score Card Review

Written Exam/Guards Donna Mullins

Transportation
Coordinators

Field Supervisors Glendon Sturgill

Field Set Up

Judges

Rick Taylor

Ken Johnson

Craig Short

Judges

William Stevens

Danny Mullins

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Contestant Statement

The Volunteer Orange Coal Mine # 2 mines coal with a continuous miner, shuttle cars, dual head roof bolting machine, and battery powered scoops. The mine operates two shifts per day, five days per week on the MMU 001-0. This mine has a history of poor roof and rib conditions along with accumulations of water, methane and low oxygen.

You are to conduct a preshift examination of the 001-0 section for the upcoming shift.

The MMU 001-0 section consists of three entries.

The No. 1 Entry is the intake.

The No. 2 Entry is the belt.

The No. 3 Entry is the return.

The mining height averages 6 feet. The main fan is blowing and operational. Underground power is energized, once knocked it cannot be re-energized.

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. Note: No roof support is required to be installed by the examiner.

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 and 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 in the last open crosscut between the # 2 and # 3 entries.

Provide information in box to the contestant after taking the air reading in the last open crosscut (LOCC) between the #2 and #3 entries.

Height:	66 INCHES
Width:	252 INCHES (21 FEET)
Feet per minute:	95 correction factor: + 25

Do not give out the total CFM, 13,860

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 only partially installed (check curtain between # 2 and # 3 not hung) then the air reading will be 7,920 CFM.

Height:	66 INCHES
Width:	252 INCHES
Feet per minute:	60 correction factor: + 10

Do not give out total CFM 8,085

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 # 2 and # 3, there will be enough air for the LOCC reading.
2. If the contestant only hangs the check curtain in x-cut between # 2 and # 3, there will be enough air for the CH4 to clear in the face of # 3.
3. If ventilation controls are not installed as stated in the Ventilation plan then dock under (Rule 17. Contestant not following the written instructions for working the problem.)
4. No dock for going into "Water knee deep" in # 1 entry. If contestant fails to go thru the Water knee deep then dock for (Rule 18, Failure to examine all accessible areas that can be safely traveled).
5. If contestant fails to use slate bar to pull loose rib in # 2 entry then dock under (Rule 12, Failure to correct a hazardous condition. Hazardous conditions must be corrected by the contestant during the examination when means or materials are available.

Do not double dip:

On the Field (If contestant fails to do Rule # 11, do not dock for Rule # 12)

Rule 11 Failure to identify verbally, placing a danger sign or correcting hazardous condition.

Rule 12 Failure to correct hazardous conditions.

Filling out the Preshift Record (If contestant fails to do Rule # 3, do not dock for Rule # 4)

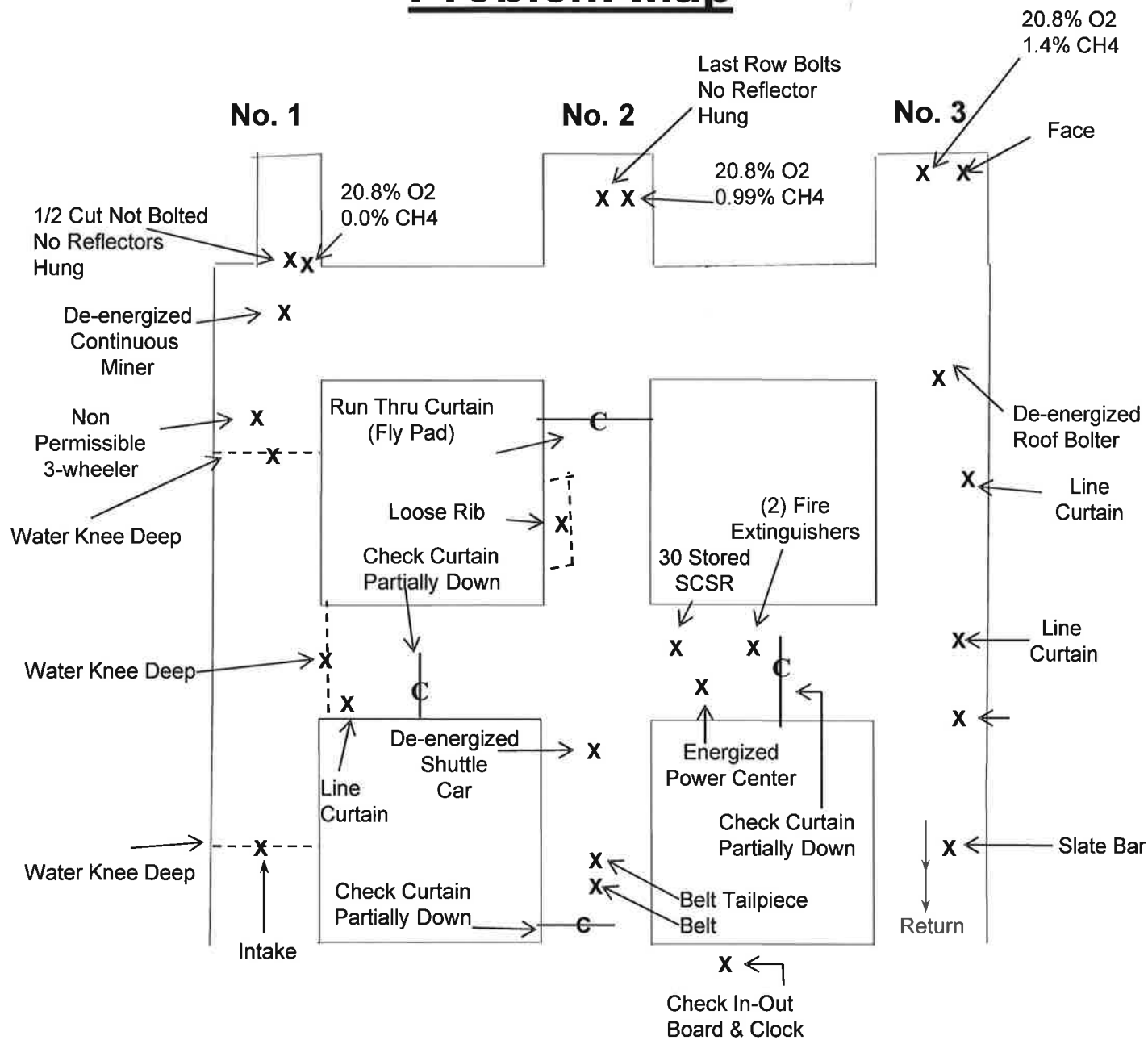
Rule 3 Failure to record hazardous condition.

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

Times

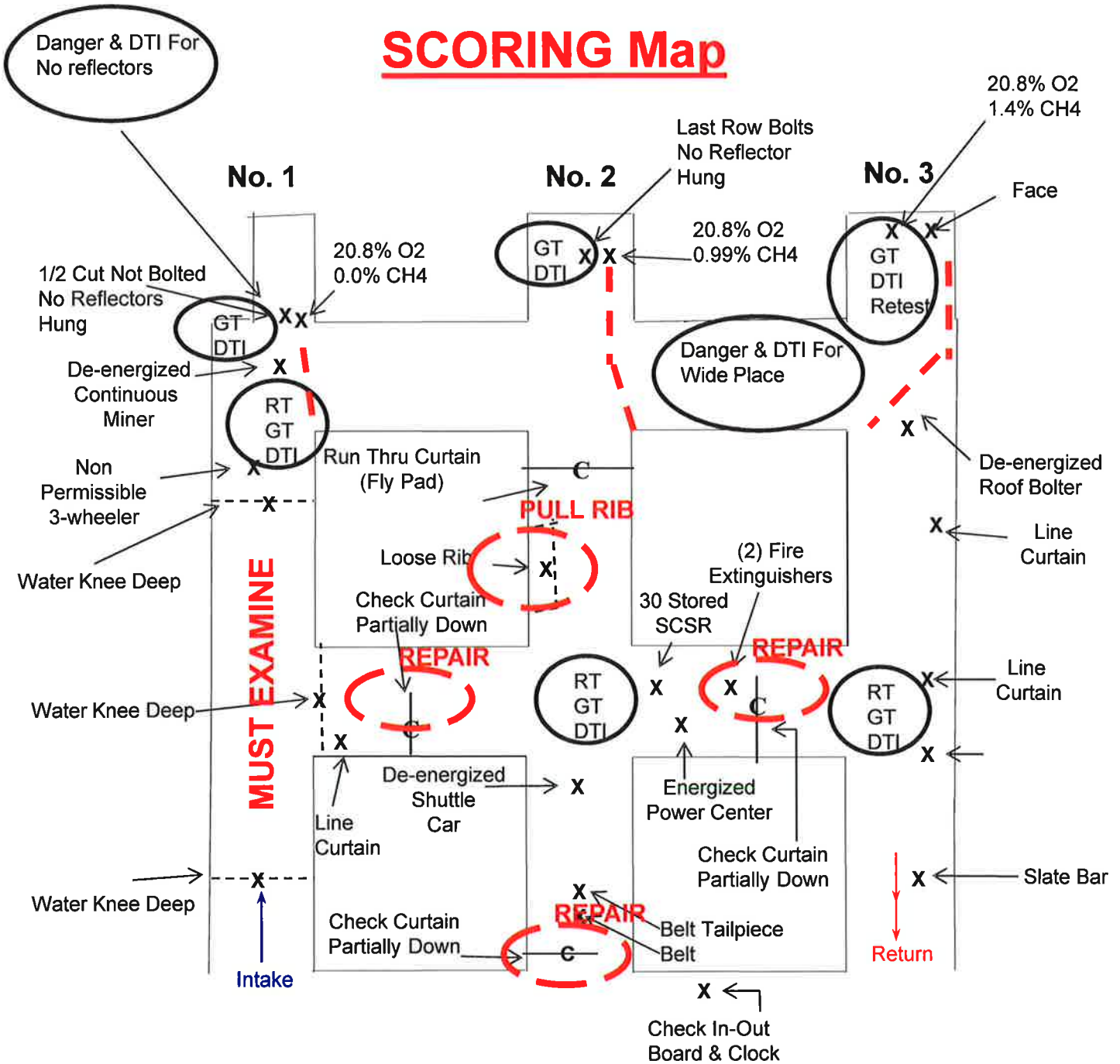
Written exam _____	15 minutes
Review plans in Staging area _____	10 minutes
On field start clock after giving materials _____	2 minutes
Work problem on field _____	30 minutes (warn when 1 minute left)
Fill out record _____	20 minutes
After posting name time to appear _____	60 minutes
Review and prepare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

2015 Energy Expo Preshift Contest Problem Map



2015 Energy Expo Preshift Contest

SCORING Map



PRESHIFT-CERTIFIED EXAMINER'S REPORT

Date of Examination: _____

Time From: _____ AM PM To: _____ AM PM

Section/Area: _____

Reported Outside? Yes ___ No ___ Time: _____ AM PM

Reported By: _____

Received By: _____ (INITIAL)

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

Location	Hazardous Condition	Action Taken	CH ₄
1 st xcut between No. 1 and No. 2 entry	Check curtain down	Hung check curtain	
No.1 Entry face area	No reflectors hung	Dangered off	
No.1 Entry face area	No line curtain	Hung line curtain	0.0%
No. 2 Entry outby 1 st crosscut	Check curtain down	Hung check curtain	
1 st xcut between No. 2 and No. 3 entry	Check curtain down	Hung check curtain	
No. 2 entry face area	No reflectors hung	Dangered off	
No. 2 Entry face area	No line curtain	Hung line curtain	
No. 3 Entry face area	1.4% CH ₄	Hung line curtain, reduced CH ₄ to 0.0%	0.0%
No. 3 Entry face area	No line curtain installed	Hung line curtain	0.0%
LOCC between No.2 and No. 3 entry	21 feet wide	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
Last Open Crosscut LOCC	13860		

Remarks: _____

 Signed by Pre Certified Examiner

 Date

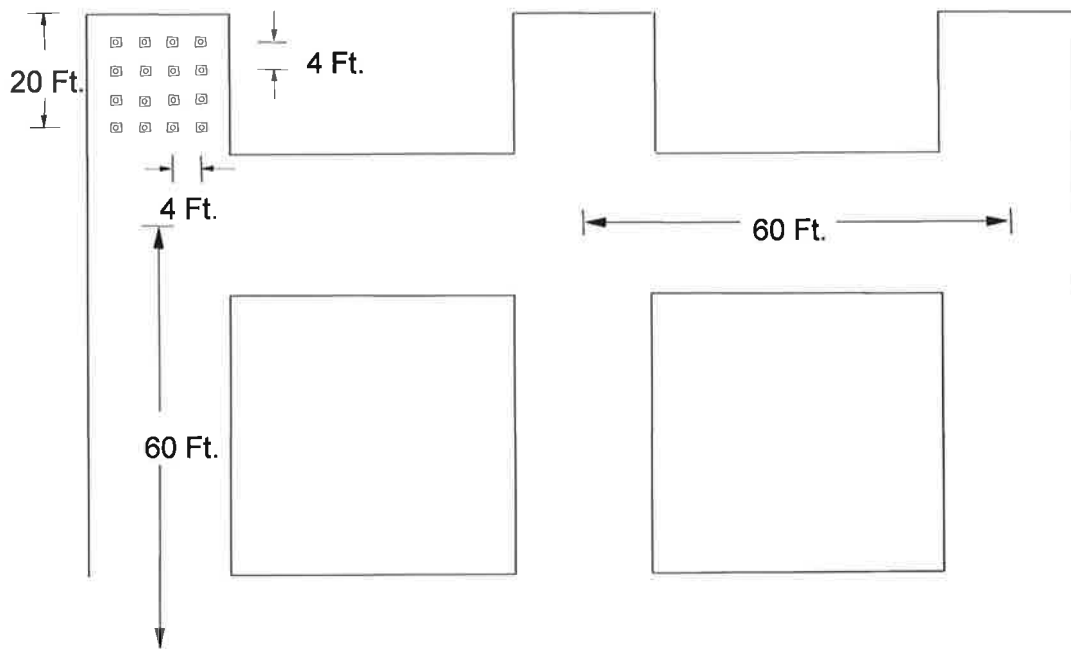
 Certification Number

 Countersigned by Mine Foreman

 Date

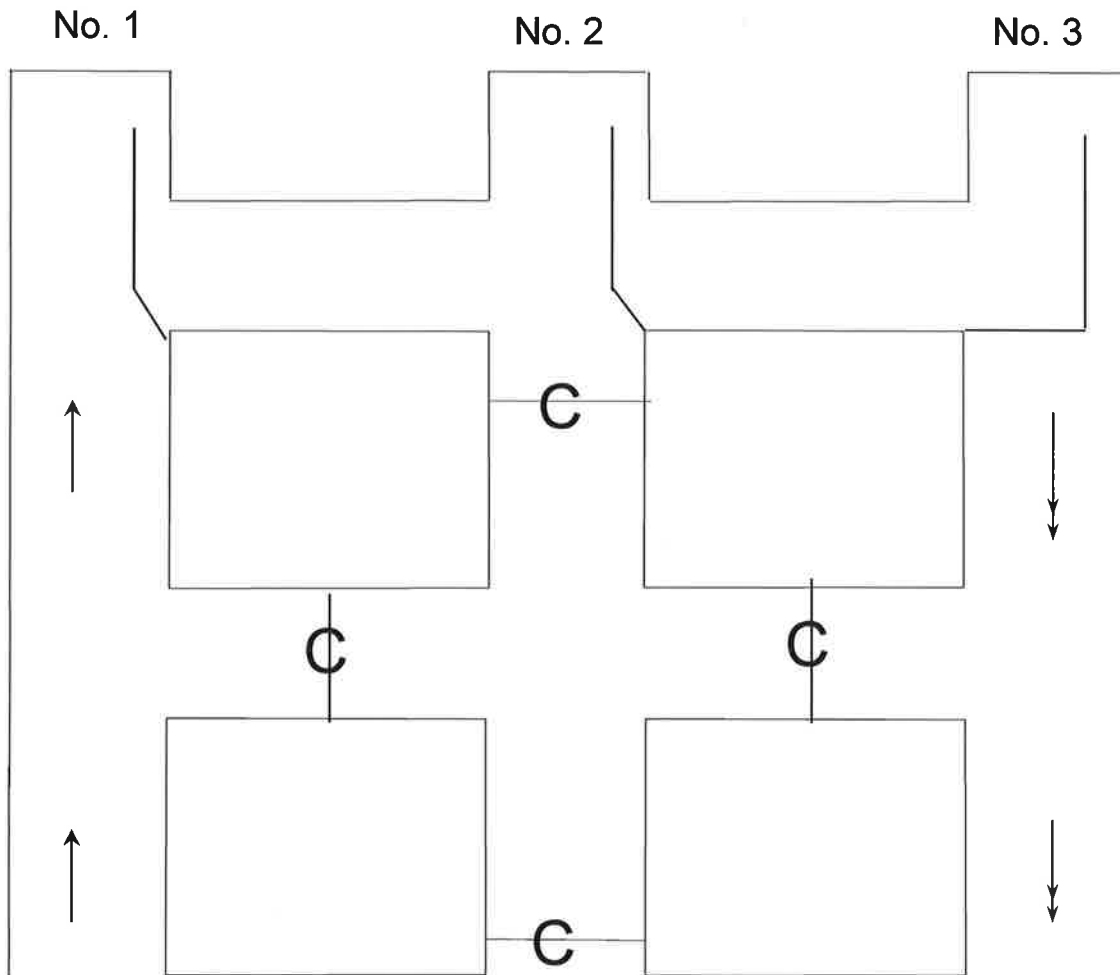
 Certification Number

2015
Energy Expo
PRESHIFT CONTEST
ROOF CONTROL PLAN



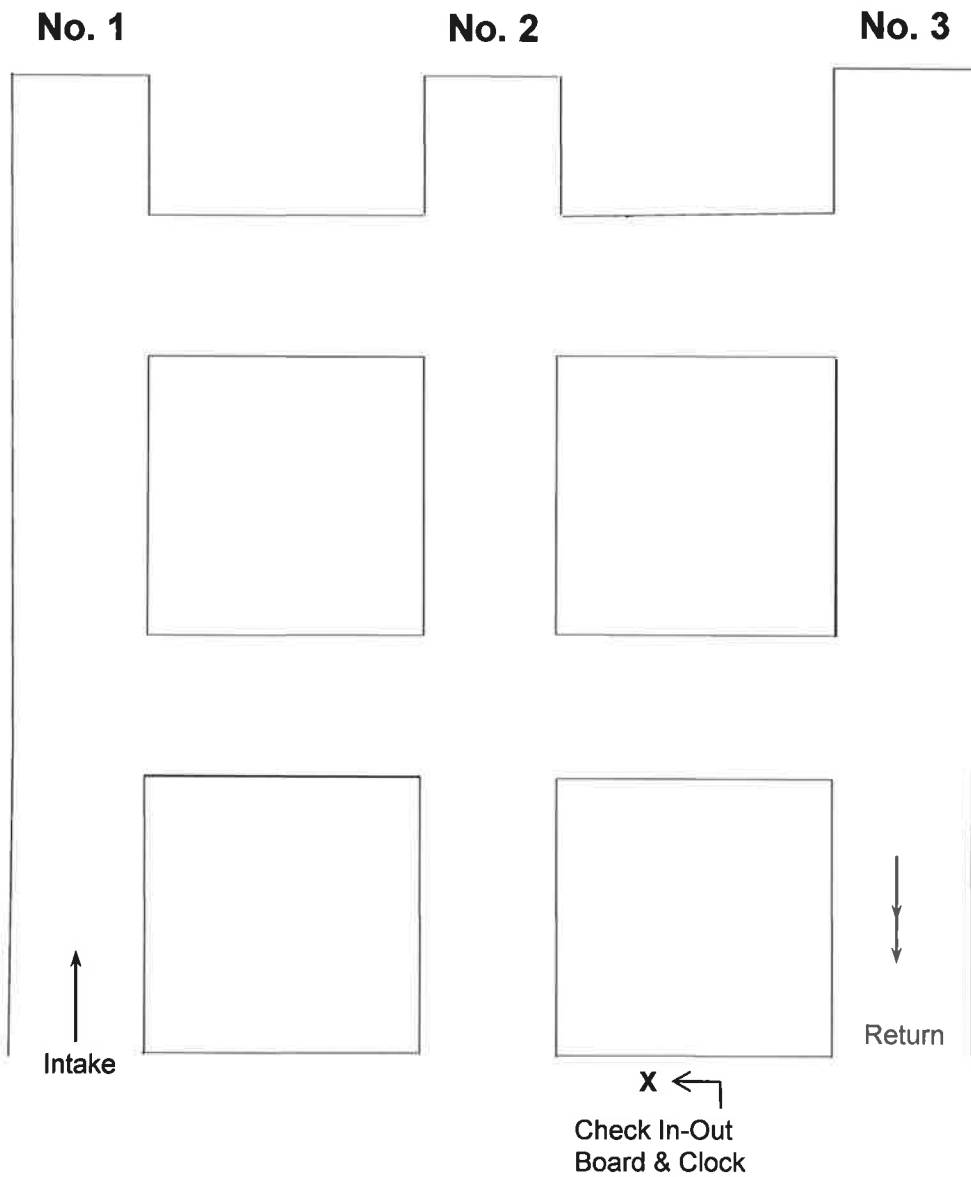
Permanent roof supports to be installed on not more than 4 ft. centers.
Maximum cut depth is 20 ft and bolt length is 48 inches.
Maximum width of rooms, entries and crosscuts is 20 ft.
Developed on 60 ft. centers with minimum size pillars being 40 ft. x 40 ft.
Supplemental support will be installed on 4 ft. centers.
The end of permanent roof support shall be posted with a readily visible warning, danger sign or a physical barrier shall be installed to impede travel beyond permanent support.

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VENTILATION PLAN

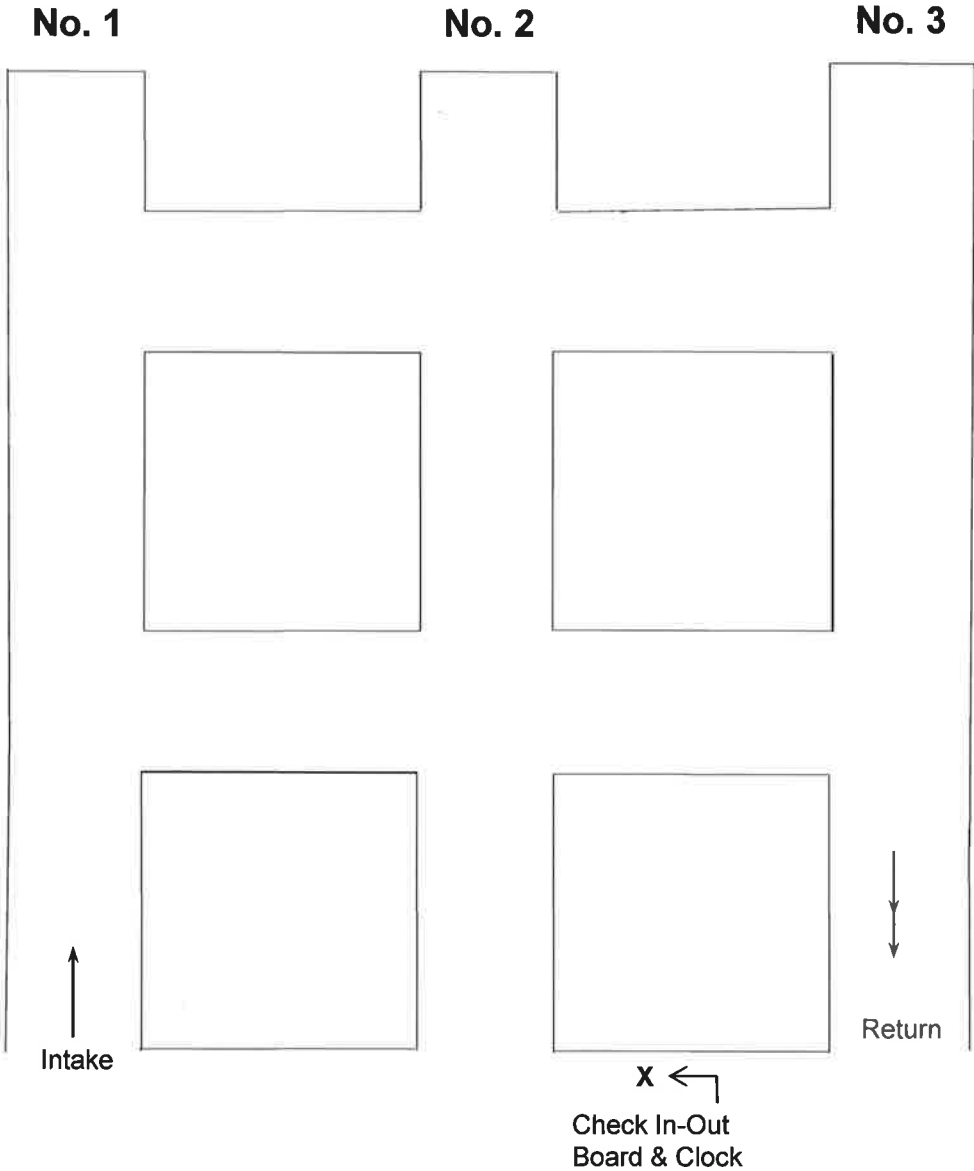


- Line curtain required where the continuous miner is cutting or loading coal.
- Line curtain required in face area where the roof bolting machine is located.
- Line curtain required to be maintained 10 ft. from the deepest point of penetration.
- A minimum of 12, 000 CFM required in the last open crosscut.
- Maximum cut depth not to exceed 20 ft.
- All face ventilation is exhausting.
- Step cuts will be taken with the left side of the place being mined prior to mining the right side.

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Judges Map



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