

2023
Virginia Governor's Cup
Preshift Contest
Wednesday May 31, 2023

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

**2023
Governor's Cup
Preshift Contest**

Contestant Statement

Welcome to the HLH Coal # 1 Mine.

I am _____ and this is _____.

The Big Orange Coal # 1 Mine 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. The newly employed evening shift section foreman left a note stating that he was having trouble getting enough air in the LOCC.

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 (indicate to contestant).

The No. 2 Entry is the belt (indicate to contestant).

The No. 3 Entry is the return (indicate to contestant).

The mining height averages 6 feet. The main fan is blowing and operational. Underground power is 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.

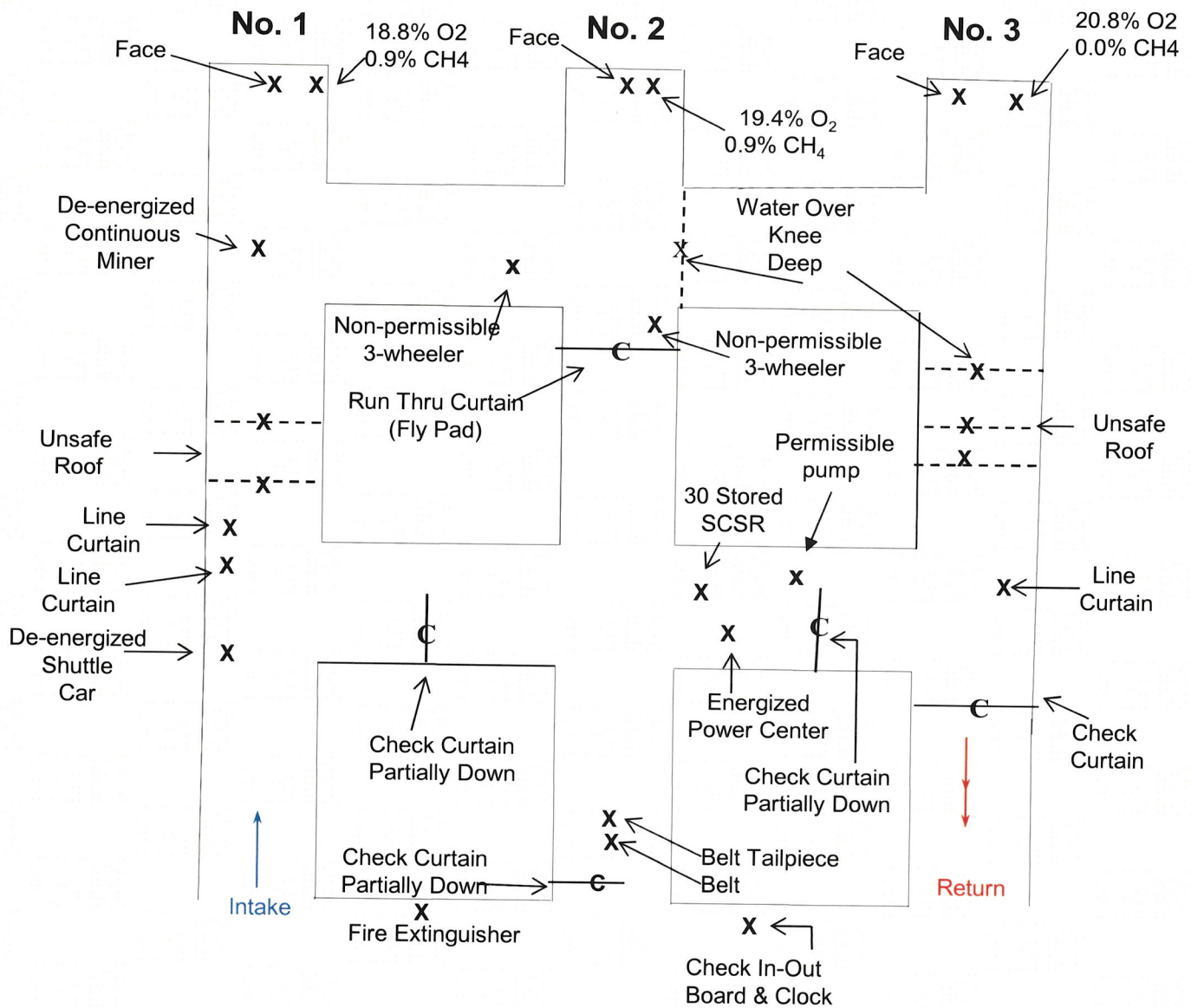
For the contest purposes, all violations of the Title 30 CFR will be considered hazards.

2023

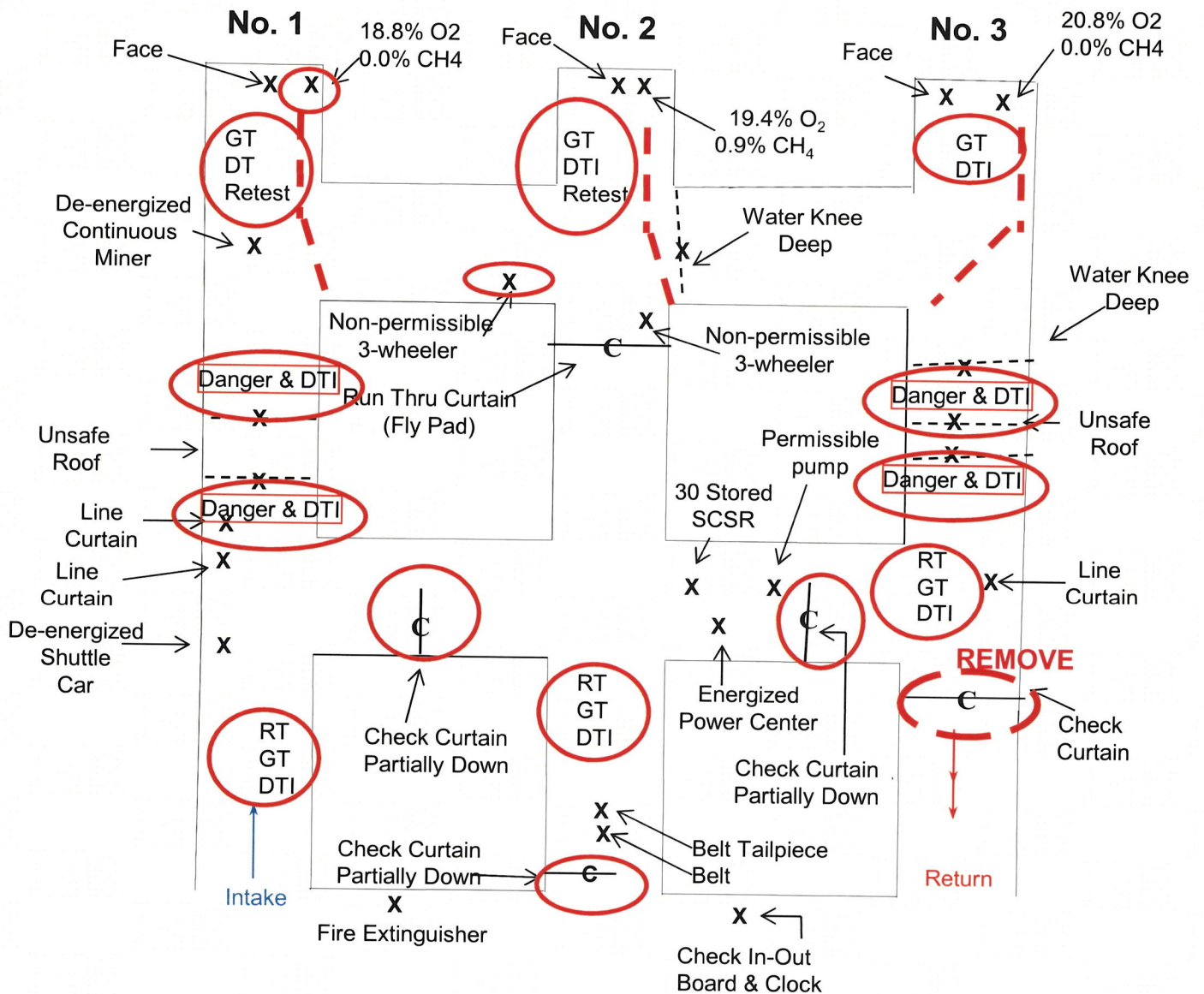
Governor's Cup

Preshift Contest

Problem Map



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Preshift Contest
SCORING Map



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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: | 20 FEET |
| Feet per minute: | 105 correction factor: + 30 |

Do not give out the total CFM, 14,850

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: | 20 FEET |
| Feet per minute: | 62 correction factor: + 10 |

Do not give out total CFM 7,920

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 and O2 in the face of # 1 and # 2.
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. If contestant goes into "Water Over Knee Deep" in x-cut between #2 and #3 entries then contestant has endangered self. (Rule 16.D)
5. If contestant reaches into or goes into "Unsafe Roof" in # 1 or # 3 entries then contestant has endangered self. (Rule 16.C)

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 5 minute left) |
| Fill out record | _____ | 20 minutes |
| After posting name time to appear | _____ | 60 minutes |
| Review and prepare protests | _____ | 20 minutes |

PRE-SHIFT EXAMINATION CONTEST
JUDGES DISCOUNT SHEET

CONTESTANT _____ NO. _____ * DENOTES DISCOUNT

WORKING TIME _____

REQUIRED EQUIPMENT

TWO POINT DISCOUNT FOR EACH OMITTED ITEM RULE 2

MARK AN X IF AVAILABLE

| | |
|-------------------------------|-------------------------------|
| SAFETY CAP _____ | SAFETY BOOTS _____ |
| MINING BELT WITH ID TAG _____ | CHECK IN TAG _____ |
| CAP LIGHT _____ | SCSR _____ |
| ANEMOMETER _____ | WATCH (OR EQUIVALENT) _____ |
| GAS DETECTOR _____ | DEVICE FOR TESTING ROOF _____ |
| MEASURING DEVICE _____ | BLANK INDEX CARDS _____ |

OUTSIDE

| | YES | NO | RULE |
|---|-------|---------|------|
| (1) DID CONTESTANT CHECK IN | _____ | _____ * | 1 |
| (2) DID CONTESTANT CHECK SCSR | _____ | _____ * | 3 |
| (3) DID CONTESTANT CHECK METHANE/OXYGEN DETECTOR | _____ | _____ * | 19 |
| (4) DID CONTESTANT CHECK OUT | _____ | _____ * | 1 |
| (5) DID CONTESTANT HAVE ALL REQUIRED EQUIPMENT | _____ | _____ * | 2 |
| (6) WAS CONTESTANT EQUIPMENT MAINTAINED IN OPERABLE CONDITION | _____ | _____ * | 14 |

POWER CENTER

| | YES | NO | RULE |
|---|-------|---------|------|
| (1) DID CONTESTANT DTI AT POWER CENTER | _____ | _____ * | 4 |
| (2) DID CONTESTANT TAKE GAS TEST AT POWER CENTER. | _____ | _____ * | 5 |
| (3) DID CONTESTANT TAKE A PROPER GAS TEST | _____ | _____ * | |

#3 HEADING

| | YES | NO | RULE |
|---|-------|---------|------|
| (1) DID CONTESTANT DTI AT #3 HEADING AND ENTRY. | _____ | _____ * | 4 |
| (2) DID CONTESTANT TAKE GAS TEST AT #3 HEADING AND ENTRY. | _____ | _____ * | 5 |
| (3) DID CONTESTANT TAKE A PROPER GAS TEST | _____ | _____ * | 6 |
| (4) DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB | _____ | _____ * | 10 |
| (5) DID CONTESTANT IDENTIFY CURTAIN MISSING | _____ | _____ * | 11 |
| (6) DID CONTESTANT INSTALL CURTAIN | _____ | _____ * | 7 |
| (7) DID CONTESTANT IDENTIFY UNSAFE ROOF | _____ | _____ * | 11 |
| (8) DID CONTESTANT DANGER OFF UNSAFE ROOF | _____ | _____ * | 12 |

| | | | | |
|---|-----|-----|---|----|
| (9) DID CONTESTANT ENDANGER SELF IN UNSAFE ROOF | ___ | ___ | * | 16 |
| (10) DID CONTESTANT ENDANGER SELF IN WATER OVER KNEE DEEP | ___ | ___ | * | 16 |
| (11) DID CONTESTANT IDENTIFY WATER OVER KNEE DEEP | ___ | ___ | * | 11 |
| (12) DID CONTESTANT PUMP WATER OVER KNEE DEEP | ___ | ___ | * | 12 |
| (13) DID CONTESTANT IDENTIFY CURTAIN BLOCKING RETURN | ___ | ___ | * | 11 |
| (14) DID CONTESTANT REMOVE CURTAIN BLOCKING RETURN | ___ | ___ | * | 12 |
| (15) DID CONTESTANT IDENTIFY CURTAIN DOWN BTW 2&3 | ___ | ___ | * | 11 |
| (16) DID CONTESTATN INSTALL CURTAIN BTW 2&3 | ___ | ___ | * | 12 |

#2 HEADING

| | YES | NO | RULE |
|---|-----|-----|------|
| (1) DID CONTESTANT DTI AT #2 HEADING AND ENTRY. | ___ | ___ | * 4 |
| (2) DID CONTESTANT TAKE GAS TEST AT #2 HEADING AND ENTRY. | ___ | ___ | * 5 |
| (3) DID CONTESTANT TAKE A PROPER GAS TEST | ___ | ___ | * 6 |
| (4) DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB | ___ | ___ | * 10 |
| (5) DID CONTESTANT IDENTIFY LOW O2 | ___ | ___ | * 11 |
| (6) DID CONTESTANT FIX LOW O2 | ___ | ___ | * 12 |
| (7) DID CONTESTANT RETEST #2 HEADING | ___ | ___ | * 5 |
| (8) DID CONTESTANT IDENTIFY NON-PERMISSIBLE 3 WHEELER BTW #1 & #2 | ___ | ___ | * 11 |
| (9) DID CONTESTANT DANGER NON-PERMISSIBLE 3 WHEELER BTW #1 & #2 | ___ | ___ | * 12 |
| (10) DID CONTESTANT IDENTIFY NO ROCKDUST OR FIRE EXT. AT POWER CENTER | ___ | ___ | * 11 |
| (11) DID CONTESTANT DANGER NO ROCKDUST OR FIRE EXT. AT POWER CENTER | ___ | ___ | * 12 |
| (12) DID CONTESTANT IDENTIFY CURTAIN MISSING | ___ | ___ | * 11 |
| (13) DID CONTESTANT HANG CURTAIN | ___ | ___ | * 7 |
| (14) DID CONTESTANT IDENTIFY CHECK CURTAIN DOWN BTW #1 & #2 | ___ | ___ | * 11 |
| (15) DID CONTESTANT HANG CHECK CURTAIN BTW #1 & #2 | ___ | ___ | * 7 |
| (16) DID CONTESTANT IDENTIFY CHECK CURTAIN DOWN OUTBY TAILPIECE | ___ | ___ | * 11 |
| (17) DID CONTESTANT HANG CHECK CURTAIN OUTBY TAILPIECE | ___ | ___ | * 7 |

#1 HEADING

| | | | |
|---|-----|-----|------|
| (1) DID CONTESTANT DTI AT #1 HEADING AND ENTRY. | ___ | ___ | * 4 |
| (2) DID CONTESTANT TAKE GAS TEST AT #1 HEADING AND ENTRY. | ___ | ___ | * 5 |
| (3) DID CONTESTANT TAKE A PROPER GAS TEST | ___ | ___ | * 6 |
| (4) DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB | ___ | ___ | * 10 |
| (5) DID CONTESTANT IDENTIFY LOW O2 | ___ | ___ | * 11 |
| (6) DID CONTESTANT FIX LOW O2 | ___ | ___ | * 12 |
| (7) DID CONTESTANT RETEST #1 HEADING | ___ | ___ | * 5 |
| (8) DID CONTESTANT IDENTIFY CURTAIN MISSING | ___ | ___ | * 11 |
| (9) DID CONTESTANT HANG CURTAIN | ___ | ___ | * 7 |
| (10) DID CONTESTANT IDENTIFY UNSAFE ROOF | ___ | ___ | * 11 |
| (11) DID CONTESTANT DANGER OFF UNSAFE ROOF | ___ | ___ | * 12 |
| (12) DID CONTESTANT ENDANGER SELF IN UNSAFE ROOF | ___ | ___ | * 16 |

LOCC

- (1) DID CONTESTANT TAKE AIR READING
- (2) DID CONTESTANT TAKE PRPOER AIR READING

YES NO RULE

___ * ___ 9
___ * ___ 8

GENERAL RULES

- (1) DID CONTESTANT RUN
- (2) DID CONTESTANT EXAM ALL ACCESSIBLE AREAS
- (3) DID CONTESTANT COMPLY WITH GENERAL RULES NOT COVERED IN THE DISCOUNT SHEET

YES NO RULE

___ * ___ 13
___ * ___ 18
___ * ___ 19

PRESHIFT-CERTIFIED EXAMINER'S REPORT

Report Shall be Signed When Made

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 outby LOCC | Unsafe roof | Dangered off both sides | |
| No.1 Entry face area | No line curtain | Hung line curtain | 0.0% |
| No.1 Entry face area | 18.8% O ₂ | Hung line curtain, increased O ₂ to 20.8% | |
| 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 | |
| LOCC between No.1 and No.2 entry | Non-permissible 3-wheeler | Removed | |
| No. 2 entry face area | 19.4% O ₂ | Hung line curtain, increased O ₂ to 20.8% | 0.0% |
| No. 2 Entry face area | No line curtain | Hung line curtain | |
| No. 3 Entry outby 1 st crosscut | Check curtain installed, air short circuited | Removed check curtain | |
| No. 3 Entry outby LOCC | Unsafe roof | Dangered off both sides | |
| LOCC between No.2 and No.3 entry | Water over knee deep | Pumped water | |
| No. 3 Entry face area | No line curtain installed | Hung line curtain | 0.0% |
| Power Center | No rock dust and no fire extinguisher | 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 | 14850 | | |

Remarks: _____

Signed by Pre Certified Examiner

Date

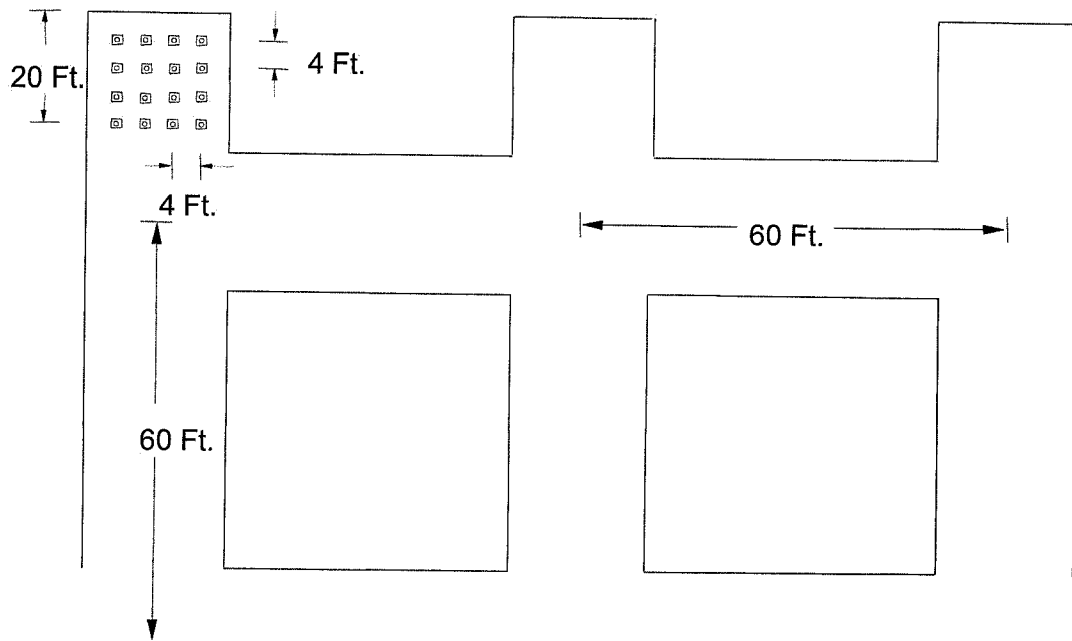
Certification Number

Countersigned by Mine Foreman

Date

Certification Number

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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 60 inches.

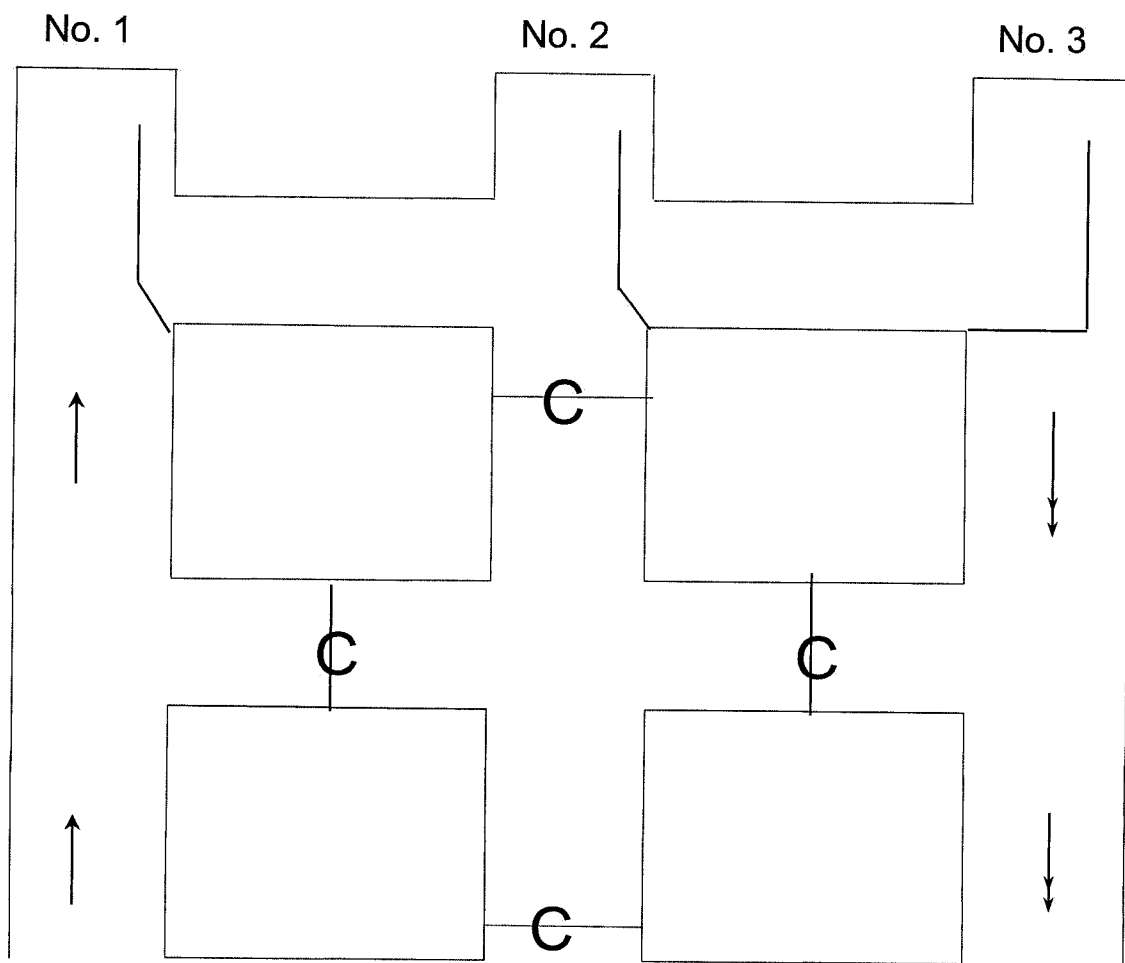
Maximum width of rooms, entries and crosscuts is 20 ft.

Developed on 60 ft. centers with minimum size pillars being 40 ft. x 40 ft.

Supplemental support will be installed on 4 ft. centers.

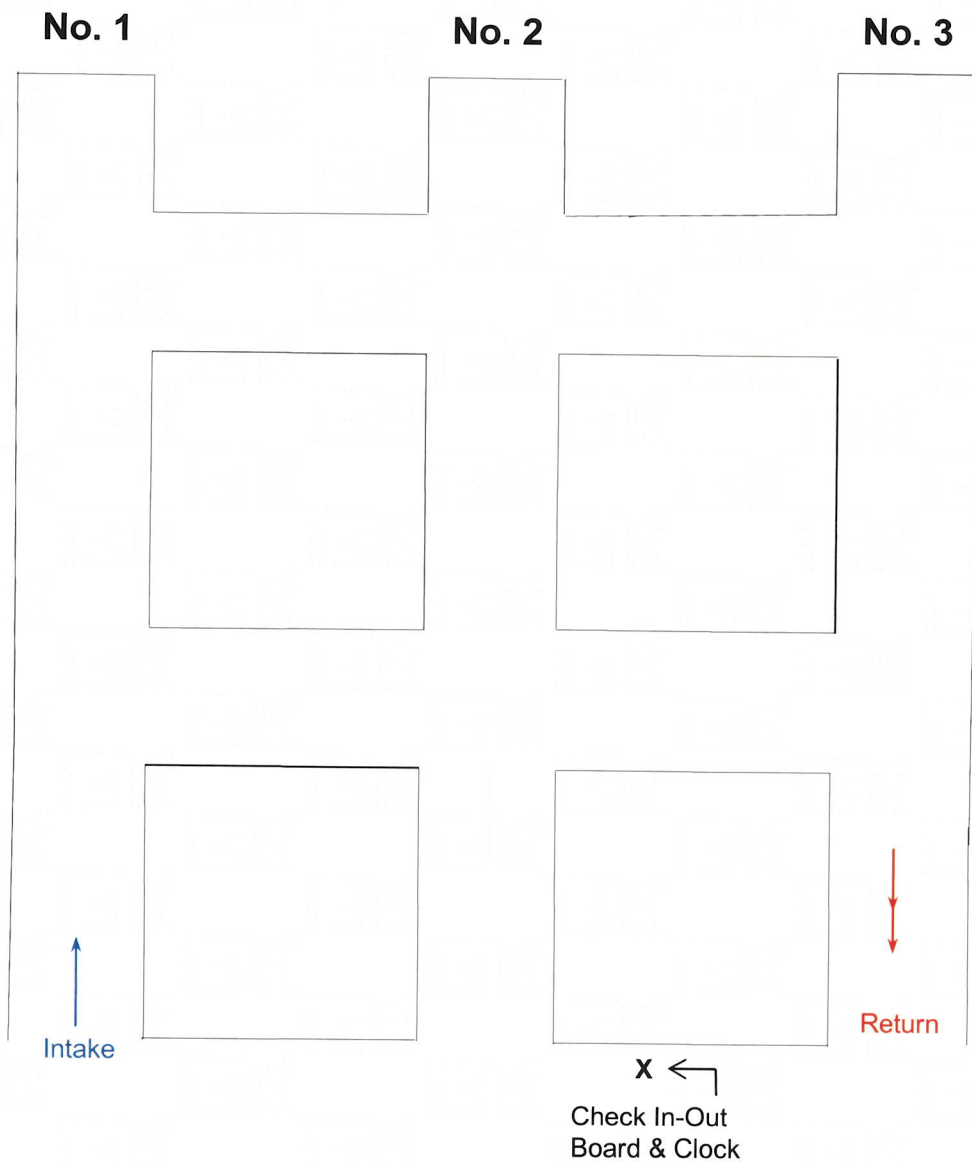
The end of permanent roof support shall be posted with a readily visible warning, danger sign or a physical barrier shall be installed to impede travel beyond permanent support.

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PRESHIFT CONTEST
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.

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Judges Map



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