

2012

36th



Alabama Coal Association

**Mine Rescue
Pre-Shift Contest**

JUDGE

"Safety First"

Pre-shift Contest

Contestant Statement

I am _____ this is _____

The Roll Tide No. 1 Mine, mines coal in the Pratt seam with a continuous miner, shuttle cars, one double head roof bolting machine, and a battery powered scoop. This is a single unit mine that produces coal on the day and evening shifts.

The mining height averages approximately 70 inches. The mine has a history of methane liberation with isolated areas of adverse roof conditions.

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

The mine employs 16 underground miners and 3 surface miners.

The mine fan is an exhausting fan, and makes approximately 60,000 CFM.

The mine has a history of non-compliance of the mine laws.

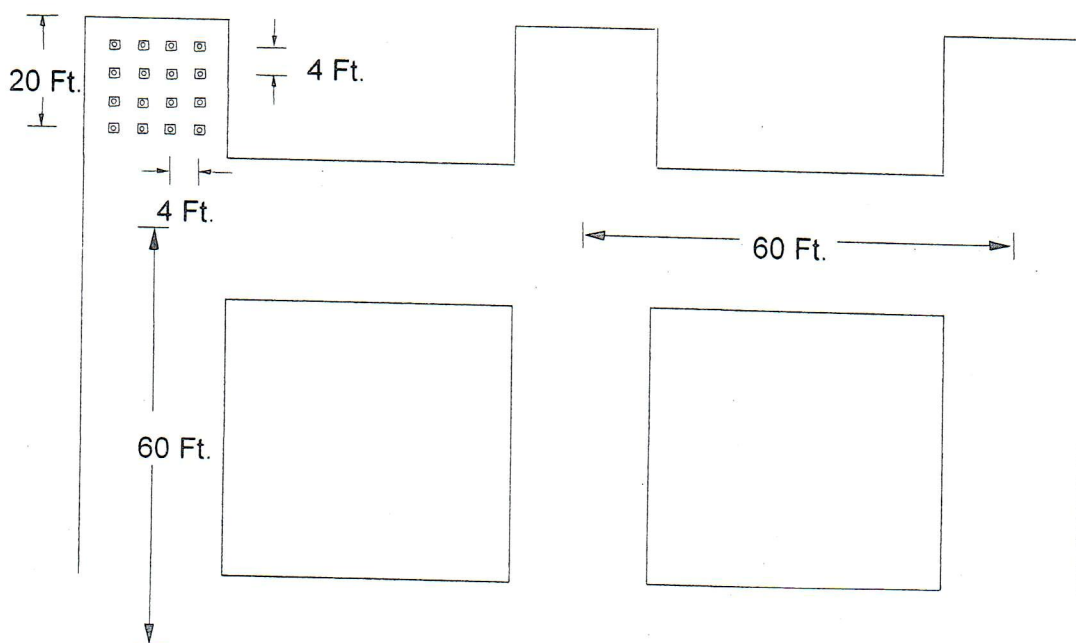
The SCSR storage plan requires at least one SCSR to be stored on the section in addition to the SCSR being worn by each person.

You are the owl shift Foreman. The evening shift section foreman *and crew* left the mine around mid-shift. You are to conduct a pre-shift examination of the section for the oncoming shift.

The pre-shift examination must start in the No. 2 entry.

PRESHIFT CONTEST

ROOF CONTROL PLAN



Permanent roof supports to be installed on not more than 4 ft. centers.
Maximum cut depth is 20 ft.

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

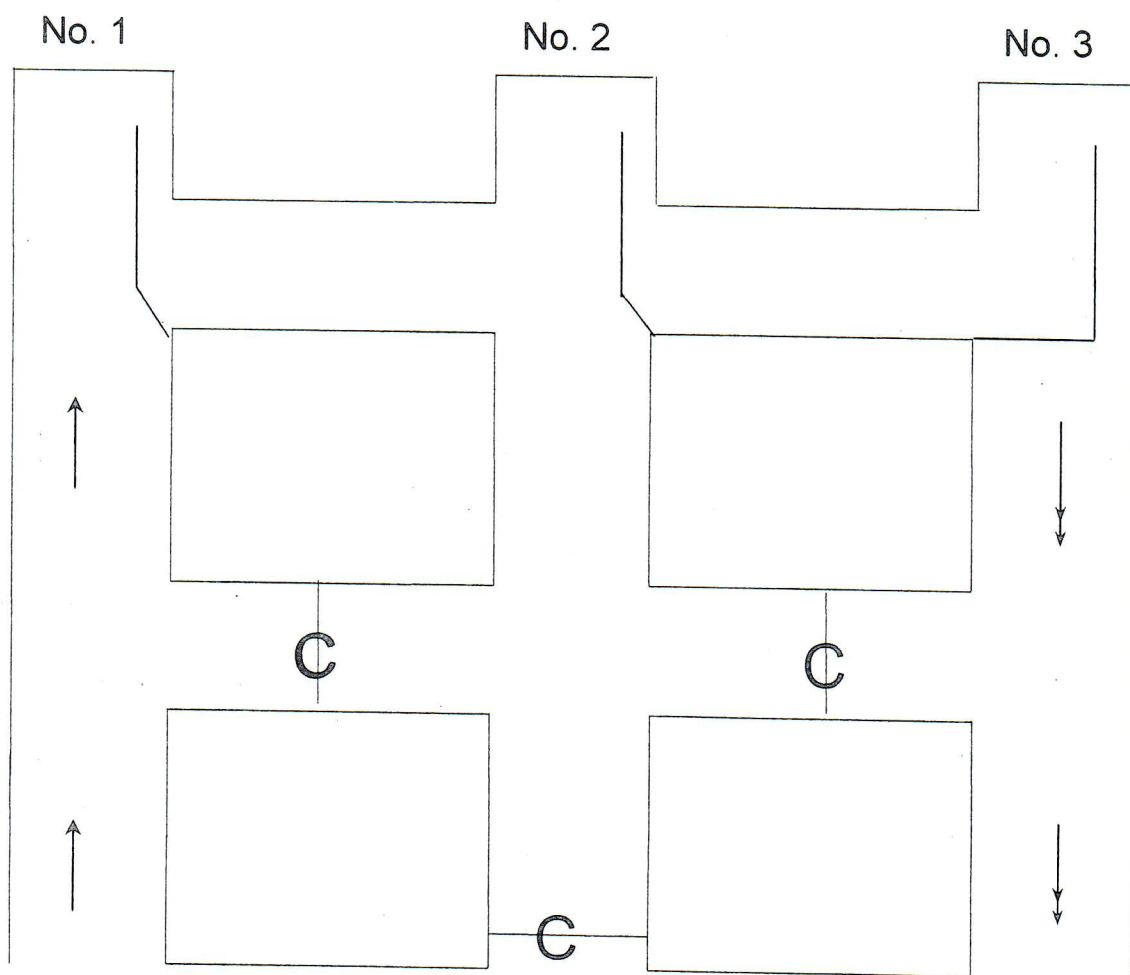
Developed on 60 ft. centers with minimum size pillars being 40 ft. x 40 ft.

Supplemental support will be installed on 4 ft. centers.

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

PRESHIFT CONTEST

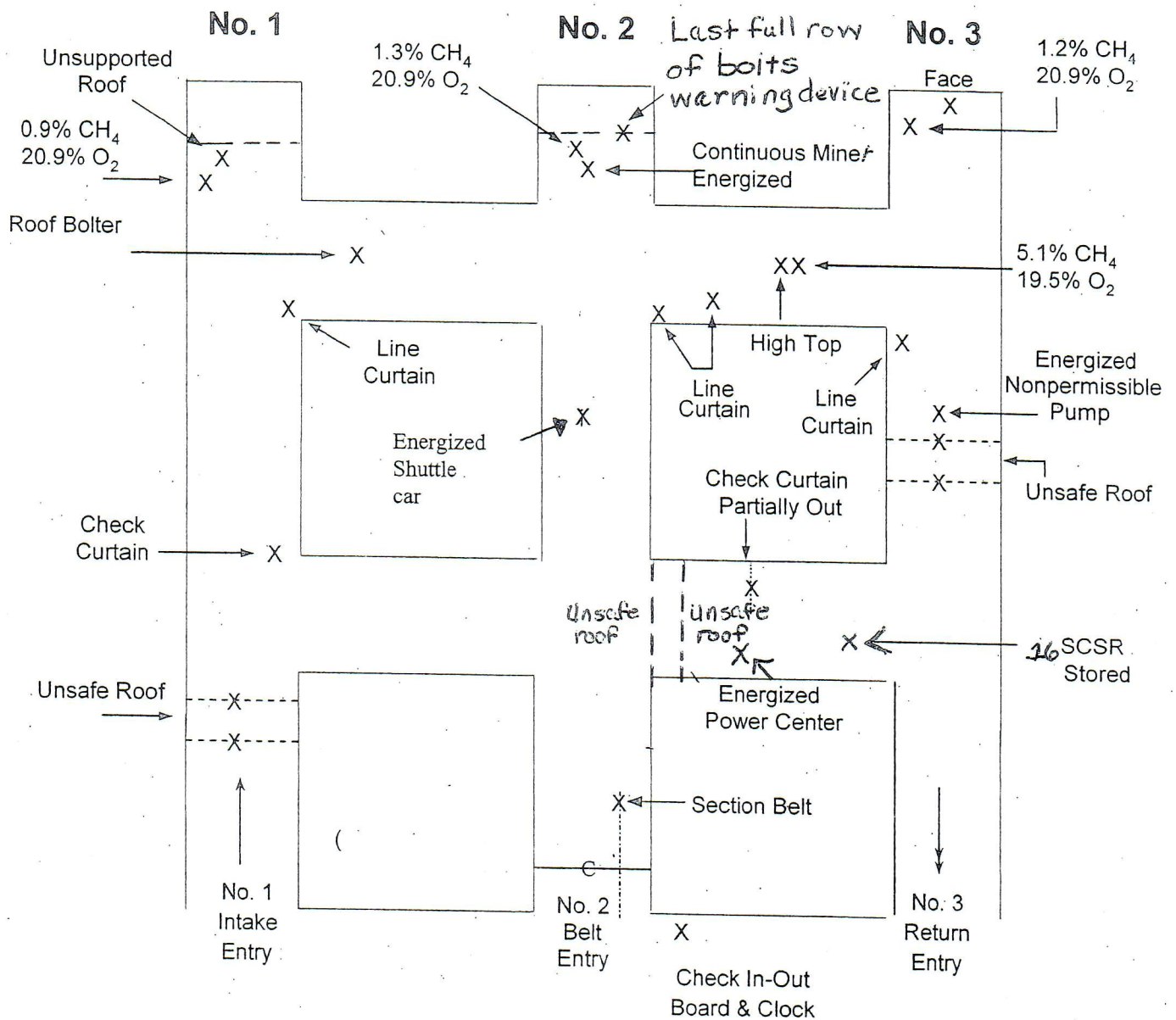
VENTILATION PLAN



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.

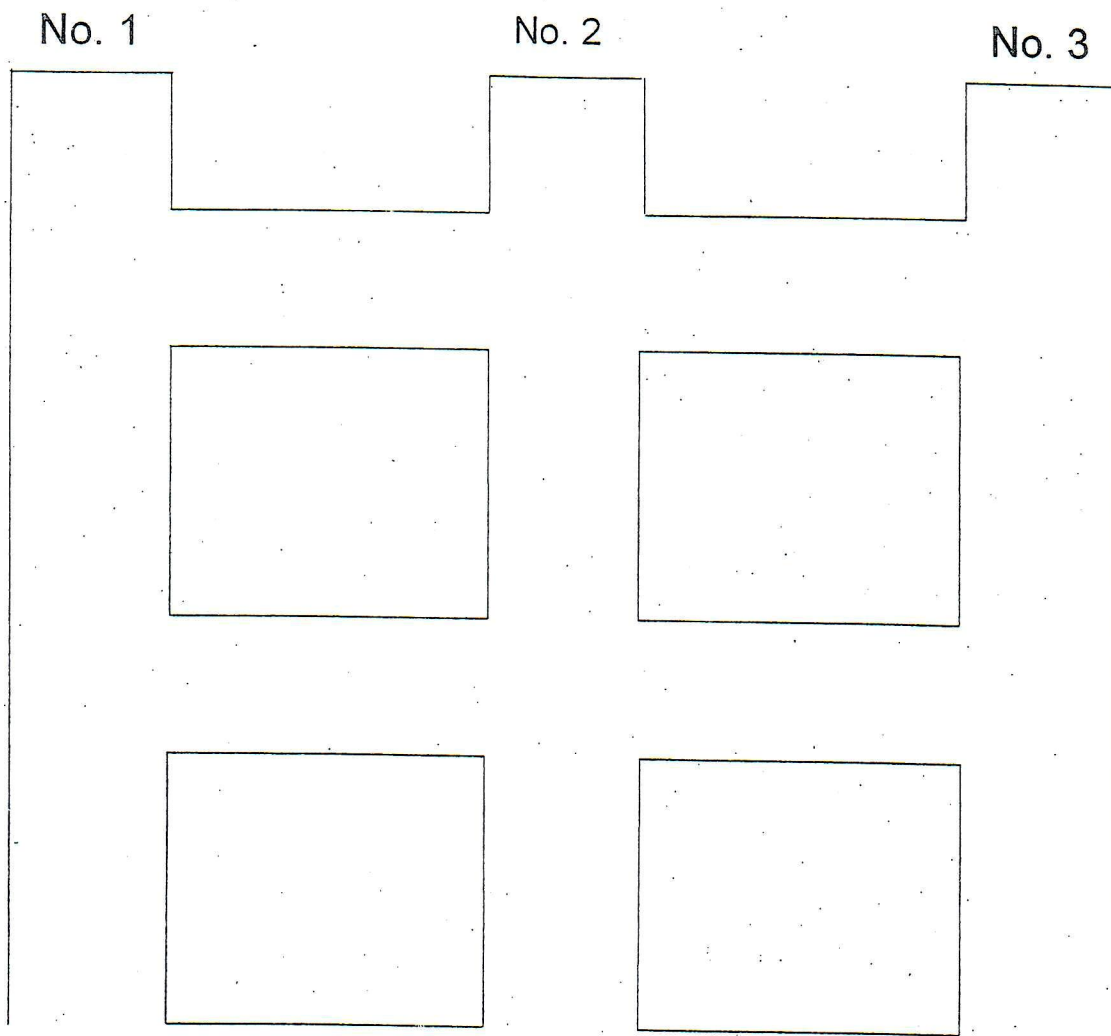
PRESHIFT CONTEST

PROBLEM MAP



PRESHIFT CONTEST

JUDGES MAP



X
Check In/Out
Board & Clock

Preshift contest

Judge's instruction

1. Show the contestant the time clock and the check in/out board.
2. Read the contestant's statement, to the contestant.
3. A blank map and a written statement (contestant statement) will be provided. The contestant will have 5 minutes to review the statement prior to starting the clock and the underground portion of the contest.
4. After the clock is started give the contestant the roof control, and ventilation plans.
5. Contestant should take the air measurement in the last open crosscut between the # 2 and # 3 entry.

Do not clear methane in face of # 2 and # 3 unless the line curtains have been installed, and the check curtain has been installed between #2 and #3.

Provide information in box to the contestant after taking the air reading in LOCC between 2&3.

Height:	72 INCHES
Width:	20 FEET
Feet per minute:	141 correction factor: + 18

Do not give out the total CFM, 15,900

Note: If the contestant takes an air measurement in the LOCC 1 – 2, and the check curtains have been installed, the information should be provided but discounts assessed for wrong location.

If the contestant takes air measurement before installing check curtain between 2 & 3

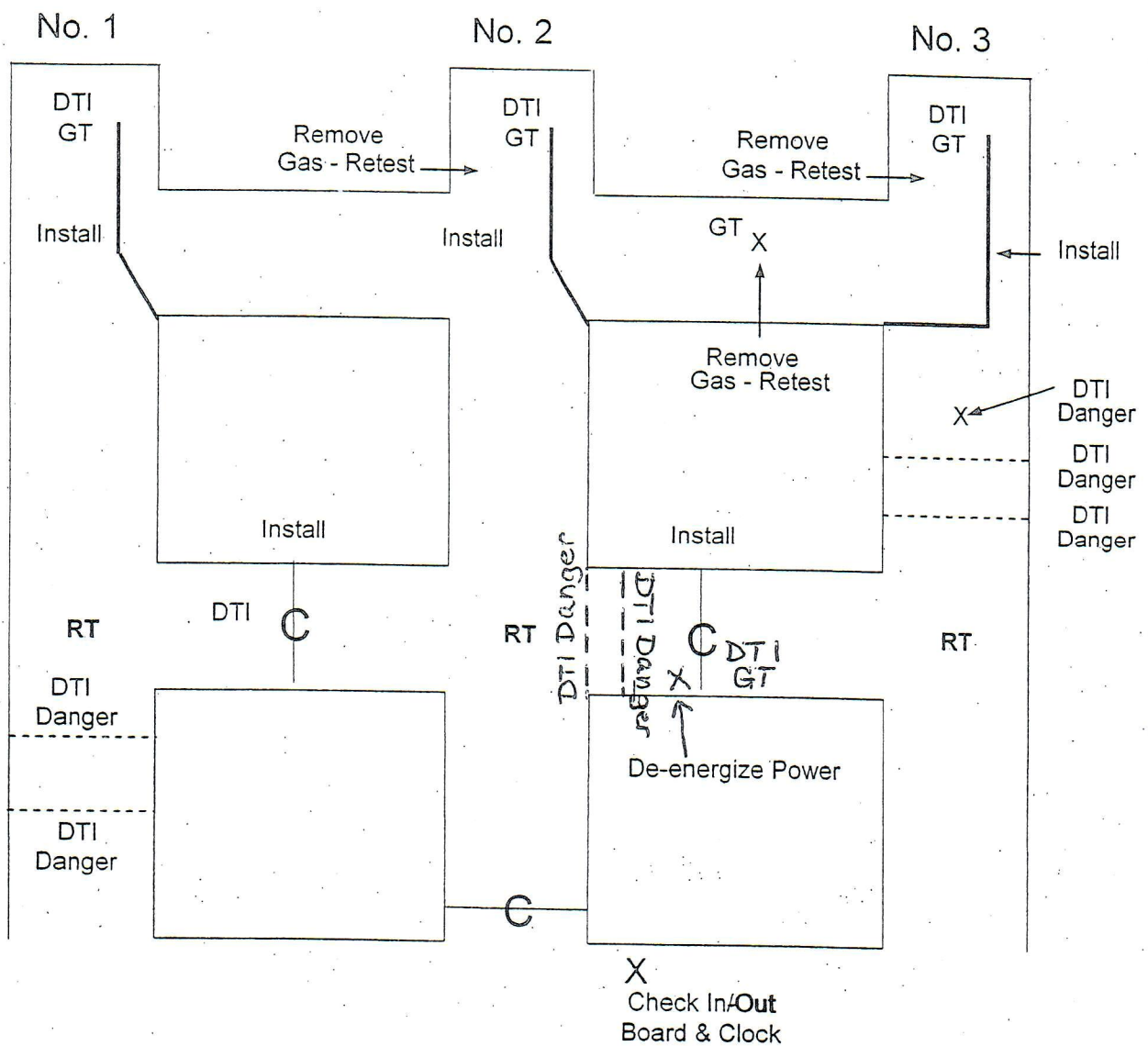
Height:	72 INCHES
Width:	20 FEET
Feet per minute:	62 correction factor: + 25

Do not give out total CFM 8,700

Digital anemometers can be held in either direction.

PRESHIFT CONTEST

SCORING MAP



Note: Roof Tests are required at one location in each entry and the contestant shall verbally state this to the judge(s).
The contestant will verbally identify each gas test to the judge(s).

PRESHIFT - CERTIFIED EXAMINER'S REPORT

Report Shall Be Signed When Finished

Date of Examination _____ Time from: _____ AM/PM To: _____ AM/PM

Section/Area _____ Reported Outside? Yes _____ No _____ Time: _____ AM/PM

Reported By: _____ Received By: _____ INITIAL (AUTHORIZED PERSON)**Preshift required within 3 hours prior to any 8-hour interval.**

Location	Hazardous condition	Action taken
No. 1 Entry (Face)	No line curtain, Ch4 0.9%. Unsupported roof, no warning device	Installed line curtain, reduced Ch4 to 0.0% danger off unsupported roof, reported
No. 1 entry, outby 2 nd crosscut	Unsafe roof	Danger off, reported
2 nd outby crosscut between 1& 2	Check curtain down	Installed check curtain
No. 2 Entry, (face)	no line curtain, 1.3% Ch4 Energized continuous miner	De-energized power on miner, installed line curtain reduced Ch4 to 0.0%
No. 2 Entry,	Unsafe roof	Danger off, reported
No. 2 Entry (outby)	Energized Shuttle Car	De-energized power on car
2 ND Right LOCC	5.1% Ch4 in high top	De-energized power center, Ventilated high top, reduced Ch4 to 0.0%
2 nd outby crosscut between 2&3	Check curtain partially down	Installed check curtain
No. 3 Entry (Face)	No line curtain, Ch4 1.2%	Installed line curtain reduced Ch4 to 0.0%
No. 3 Entry outby LOCC	Energized Non-permissible pump, unsafe roof	De-energized power on pump, reported. Danger off unsafe roof, reported

Air Measurements

Location	CFM	Location	CFM
LOCC Between No. 2 & 3	15,900		

VelocitiesLongwall Headgate : _____
Remarks: _____

Longwall Tailgate: _____

Signed by Preshift Certified Examiner _____

Date _____

Certification Number _____

Countersigned by Mine Foreman _____

Date _____

Certification Number _____

Countersigned by Operator/Agent _____

Date _____

Certification Number _____

THIS RECORD TO BE MAINTAINED FOR ONE (1) YEAR

**STATEMENTS OF FACT
PRESHIFT CONTEST**

1. The lower explosive limit for methane is _____ volume percent.
 - A. 5%
 - B. 12%
 - C. 15%

2. Air being used to ventilate areas where persons work or travel shall contain at least _____ percent oxygen.
 - A. 15%
 - B. 20.8%
 - C. 19.5%

3. Tests for methane concentration should be made at least 12 inches from the _____, face, ribs, and floor.
 - A. Belt Tail
 - B. Power Center
 - C. Roof

4. All electric face equipment taken into or used in by the last open crosscut shall be _____.
 - A. Permissible
 - B. Energized
 - C. Clean

5. Before implementing an approved revision to _____ Plan, all persons who are affected by the revision shall be instructed in its provisions.
 - A. Electrical
 - B. Bath House
 - C. Roof Control

6. Self-contained self-rescuers are used to protect the wearer from the effects of _____.
 - A. Methane
 - B. Smoke
 - C. Irresponsible Atmosphere

7. The quantity of air reaching the last open crosscut of each set of entries or rooms on each working section and the quantity of air reaching the intake end of a pillar line shall be at least 9,000 cubic feet per minute unless a greater quantity is required to be specified in the Approved _____.
- A. Ventilation Plan
 - B. Roof Control Plan
 - C. Dust Plan
8. Oxygen detectors shall be _____ at the start of each shift that the detectors will be used.
- A. Charged
 - B. Calibrated
 - C. Turned On
9. _____ where methane is likely to accumulate, over haulageways where equipment will travel must be examined during the preshift examination.
- A. High Spots
 - B. Trolley Connections
 - C. Loose Top
10. Any area of the mine where a _____ is observed shall be posted with a conspicuous danger sign where anyone entering the area would pass.
- A. Water Hole
 - B. Energized Cable
 - C. Hazardous Condition

Preshift contest

Answer sheet

1. 5
2. 19.5
3. Roof
4. Permissible
5. Roof Control Plan
6. Irrespirable atmosphere
7. Approved ventilation plan
8. Calibrated
9. High spots
10. Hazardous conditions