2018 Energy Expo Pre-Shift Contest



Ridgeview School Clintwood, Virginia 24228 October 4, 2018







2018 Energy Expo Preshift contest 10/4/18

Judge's instructions

- 1. Show the contestant the time clock, mine phone, and the check in/out board.
- 2. A blank map, written statement (contestant statement), roof control plan, and ventilation plans 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: 72 INCHES

Width: 240 INCHES

Feet per minute: 146 correction factor: + 15

Do not give out the total CFM, 19320.

Note: If the contestant takes an air measurement in the wrong location, and the check curtains have been installed, the information above should be provided to them but discounts assessed for wrong location. (Rule 9)

If the contestant takes the air measurement with the ventilation controls partially installed (not according to the vent plan schematic) then the air reading will be 9600 CFM in the LOCC.

Height: 72 INCHES

Width: 240 INCHES

Feet per minute: 60 correction factor: +8

Do not give out total CFM 8160.

Digital anemometers can be held in either direction.

2018

Energy Expo Preshift contest

10/4/18 Judge's instructions PAGE 2 (Idle air readings)

IDLE AIR IN FACES:

<u>LINE CURTAIN HUNG</u> <u>LINE CURTAIN NOT HUNG</u>

1 Face

Height: 6 FEET Height: 6 FEET Width: 3 FEET Width: 3 FEET

Feet per minute: 118 Correction factor: +2 Feet per minute: 40 Correction factor +5

Do not give out total = 2160 Do not give out total = 810

2 Face

Height: 5 FEET Height: 5 FEET Width: 3 FEET Width: 3 FEET

Feet per minute: 145 Correction factor: +1 Feet per minute: 50 Correction factor +5

Do not give out total = 2190 Do not give out total = 825

3 Face

Height:6 FEETHeight:6 FEETWidth:3 FEETWidth:3 FEET

Feet per minute: 108 Correction factor: +2 Feet per minute: 60 Correction factor +5

Do not give out total = 1980 Do not give out total = 1170

2018 Energy Expo Preshift contest

October 4, 2018

Judging Points

- 1. # 1 face, Danger Off Roof Control Plan states that places cannot be left unbolted over 24 hours. (Rule 17- Contestant not following the written instructions for working the problem. 15 points (Each occurrence)
- 2. Loose rib in # 1 outby LOCC- use Slate bar to pull. (Rule 12 Hazardous conditions must be corrected by the contestant during the examination when means or materials are available.) 10 points.
- 3. High spot in # 2 face area- use Extendable probe to take Gas check. (Rule 5 G) (Failure to make necessary gas tests where required. Immediately inby approaches to worked-out areas along intake air courses, and at high spots where methane is likely to accumulate, and equipment will be operated in the area during the shift.) 5 points.
- 4. High Spot in # 2 also needs to be documented in Preshift Record. (INTERPRETATION OF THE PRESHIFT RECORD) (Rule # 7 Failure to record results of CH4 examinations.)
- 5. Water over knee deep in # 3 entry. Danger off both sides. If travel thru contestant has endangered self. (Rule 16 D) (Any act by the examiner, which may endanger himself/herself or others) 20 points (Each Occurrence)
- 6. If Check curtain is not hung across # 2 entry then dock under Rule 7 since it is required in Ventilation Plan. 10 points (Each occurrence).
- 7. Take idle air reading in each working place. Dock under Rule 7 since it is required in the Ventilation Plan. 10 points (Each occurrence).
- 8. **New Time- Field working time** is 30 minutes, WARNING at 5 minutes (used to be 1 minute).

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.

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

Rule 3 Failure to record hazardous condition.

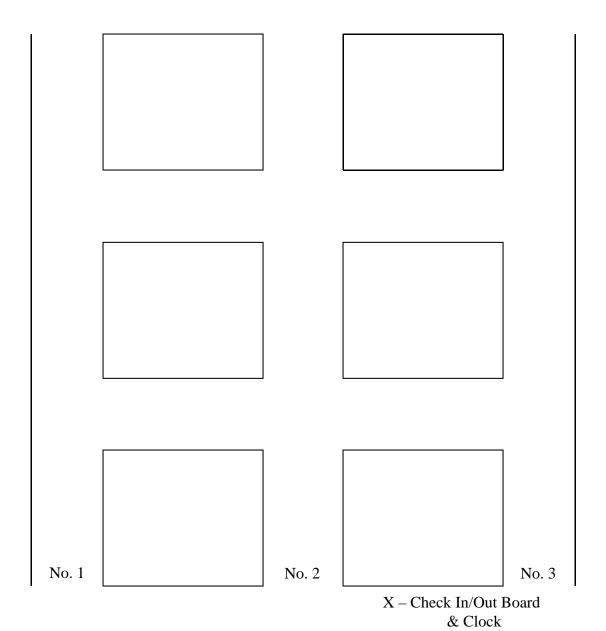
Rule 4 Failure to record action taken to correct hazardous condition.

<u>Personal notes</u>: Date cannot be written on hand prior to arriving at the field, if the contestant wants to write on hand after clock starts that is ok.

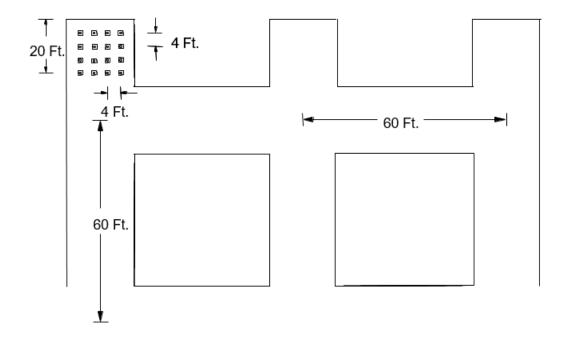
Times

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 minutes left)
Fill out record	_ 20 minutes
After posting name time to appear	_60 minutes
Review and prepare protests	20 minutes

2018 Energy Expo Preshift Contest JUDGE'S MAP



2018 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 40 ft. x 40 ft.

Crosscuts shall be started only in areas that are supported with permanent roof supports. When headings and crosscuts are to be simultaneously developed, a minimum of three (3) rows of permanent roof supports shall be installed inby the proposed crosscut prior to starting the crosscut.

No place will be left unbolted for more than 24 hours.

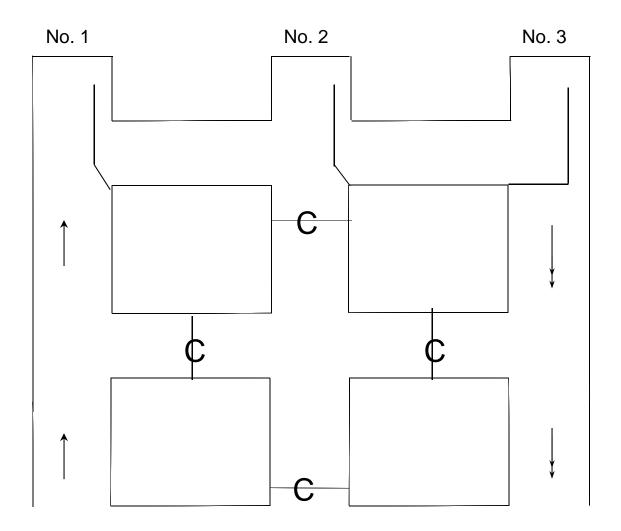
Supplemental support will be installed on 4 ft. centers.

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.

2018

Energy Expo 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.

Minimum quantity of 1,500 CFM required in each idle place.

Maximum cut depth not to exceed 20 ft.

All face ventilation is exhausting.

PRESHIFT-CERTIFIED EXAMINER'S REPORT Use Indelible Pencil or Ink Report Shall be Signed When Made 2018 Energy Expo Time From:: _____ AM PM To: _____ AM PM Date of Examination: Reported Outside? Yes _____ No ____ Time: _____ AM PM Section/Area: (INITIAL) Reported By: Received By: Pre-Shift required within 3 hours prior to any 8-hour interval **Hazardous Condition** Location **Action Taken** CH_4 # 1 entry between 1st & 2nd Loose rib Pulled rib Xcut # 1 entry face area Place left unbolted over 24 hours Danger off 0.0% # 2 entry outby 1st xcut Check curtain down Hung check curtain # 2 entry face area High Spot 0.0% # 2 entry face Hung line curtain No line curtain hung 0.0% # 3 entry between 1st & 2nd Water over knee deep Danger off both sides xcut No line curtain hung Hung line curtain #3 entry face 0.0%

Air Measurements

Location	CFM	Location	CFM
LOCC	19320		
Remarks:			
Signed by Pre Certified Examiner	ertified Examiner Date Certification Number		
Countersigned by Mine Foreman	Da	te Certification	Number

PRESHIFT CONTEST STATEMENT OF FACTS TEST

Energy Expo October 4, 2018

1.	Circuit breakers shall befor identification.
	a. Labeled
	b. Marked
	c. Engraved
2.	The last open crosscut is the crosscut in the line of pillars containing the permanentthat separate the intake air courses and the return air courses.
	a. Flypads
	b. Stoppings
	c. Controls
3.	Main mine fans shall be equipped with an device that gives a signal when the fan slows or stops.
	a. Autonomic
	b. Audible
	c. Automatic
4.	The operator must maintain a foot diameter barrier around oil and gas wells, unless a lesser barrier consistent with State laws and regulations is approved.
	a. 500
	b. 300
	c. 150
5.	Ventilation controls are used underground to properly air to all sections of the mine.
	a. Disperse
	b. Distribute
	c. Direct

6.	a. b.	rbon monoxide has no taste or Odor Smell Scent		
7.	Ab a.	out percent of normal air is oxygen.		
	c.	21		
8.	Before implementing an approved revision to a roof control plan, all persons who are affected by the revision shall be in its provisions. a. Instructed			
	b.	Trained		
		Educated		
9.		e mine emergency evacuation and firefighting program requires a review of mine map, the escapeway system, and location of alternatives.		
	a.	Refuse		
	b.	Strata Fresh air bay		
	c.	Refuge		
10.	or	mporary notations shall include ventilation controls constructed removed, such as seals, overcasts, undercasts, regulators, and permanent ppings, and the direction of air currents.		
	a.	Temporary		
	b.	Permanent		
	c.	All		

PRESHIFT CONTEST STATEMENT OF FACTS TEST KEY Energy Expo 2018

1 b

2 b

3 c

4 b

5 b

6 a

7 c

8 a

9 c

10 b