



2017
Virginia Governor's Cup
Pre-Shift Contest
June 1, 2017

The University of Virginia's College at Wise
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Phone: (276) 328-0100

**2017
Governor's Cup
Preshift Contest**

Contestant Statement

The CVC Coal Company # 1 Mine mines coal with a continuous miner, shuttle cars, a 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 active section has low spots that are only 36" high, and as a preshift examiner you will have to crawl thru these low places on the section. Travel time from the surface to the section is approximately 50 minutes.

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, and once turned off, the power cannot be turned back on.

A copy of the approved roof control plan, the approved ventilation plan, approved seal 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.

You will have 30 minutes to complete the problem.

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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, seal plan, and ventilation plans will be provided and 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:	78 INCHES
Width:	20 FEET
Feet per minute:	115 correction factor: + 22

Do not give out the total CFM, 17,810

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

Height:	78 INCHES
Width:	20 FEET
Feet per minute:	45 correction factor: + 15

Do not give out total CFM 7,800

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 if the line curtain is hung in # 3.
3. Contestant should use the probe stick (located in # 1 entry) to check for methane in the high spot in # 3 entry. (Rule 5, part G)
4. Contestant should crawl thru the low spot in the crosscut between the # 1 and # 2 entry. (Rule 17)
5. Not following the approved Seal Plan concerning installing the line curtain, closing gas sample pipe, not noticing gas sample pipe is made from conductive material, opening water trap, not noticing missing water trap, not noticing Pogo stick missing. (Rule 12)
6. **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.

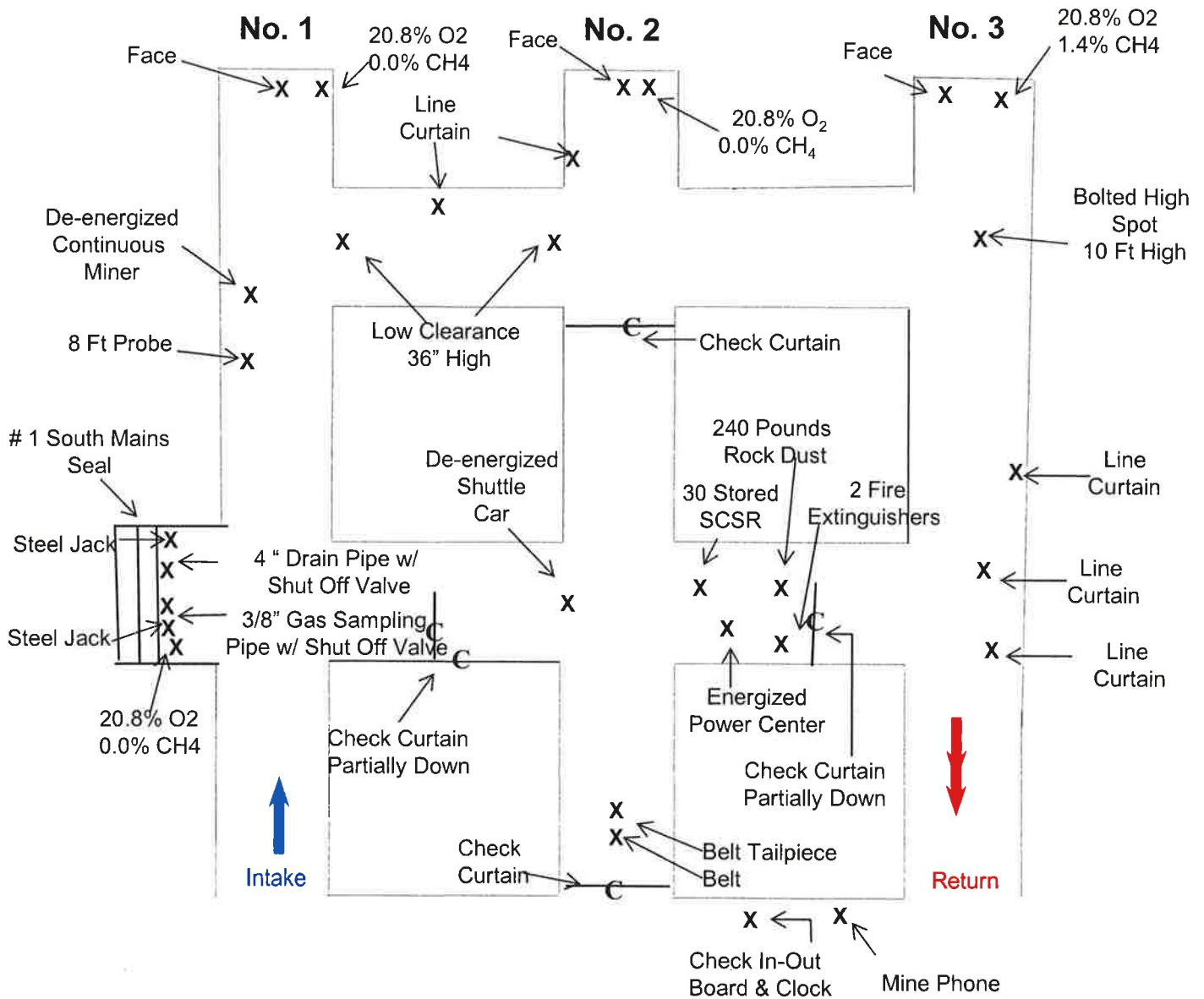
Rule 4 Failure to record action taken to correct hazardous condition.

Personal notes: 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.

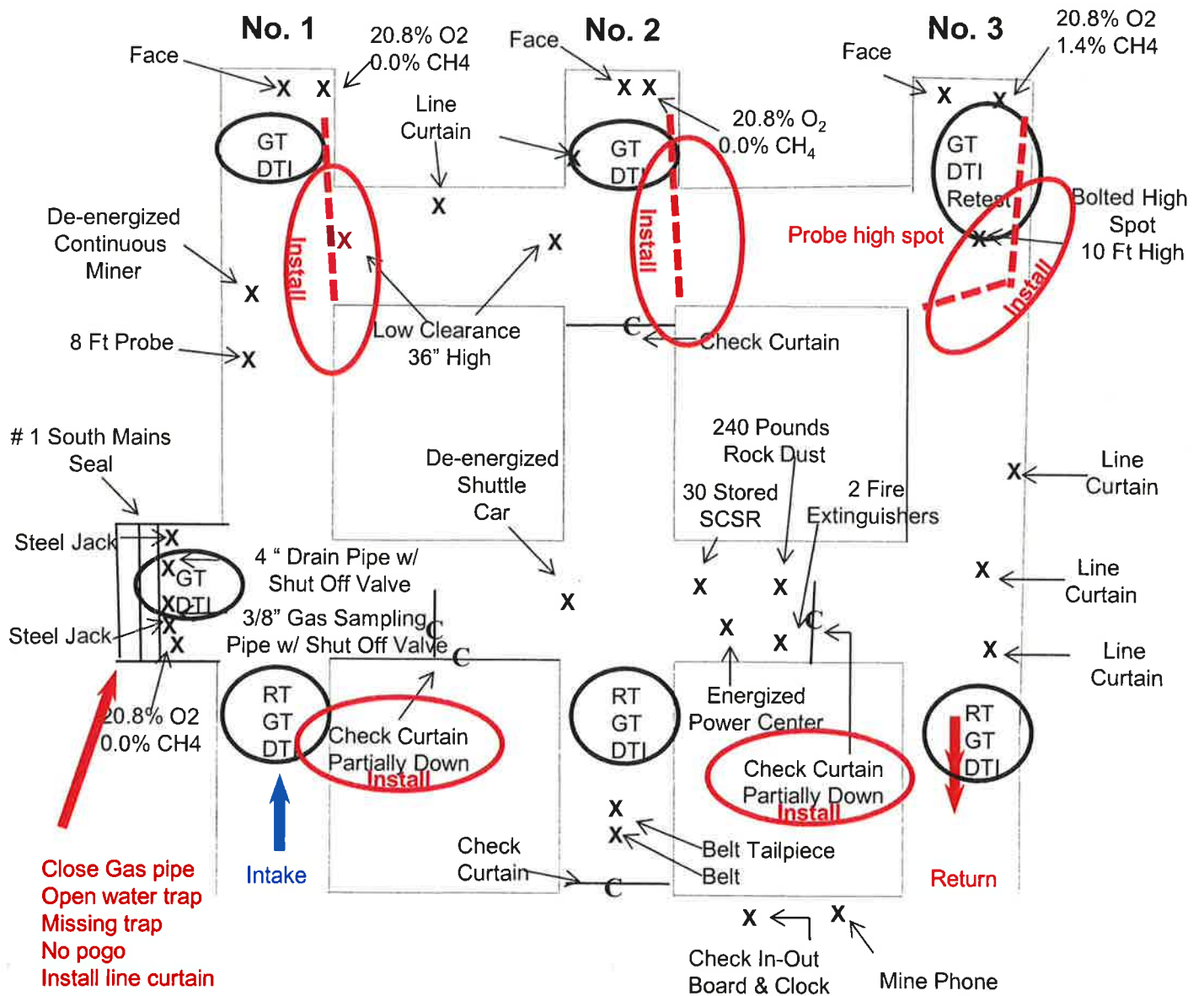
Times

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

2017 Governor's Cup Preshift Contest Problem Map



2017 Governor's Cup 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 Entry # 1 seal	No line curtain	Hung line curtain	0.0%
# 1 Entry # 1 seal	No convergence pogo stick	Dangered off	
# 1 Entry # 1 seal	Discharge pipe shut-off valve closed	Opened valve on discharge pipe	
# 1 Entry # 1 seal	Discharge pipe- no trap in pipe	Dangered off	
# 1 Entry # 1 seal	Gas sample pipe shut-off valve open	Opened valve	
# 1 Entry # 1 seal	Gas sample pipe- not non conductive	Dangered off	
1 st xcut between # 1 & 2	Check curtain down	Hung check curtain	
# 1 Entry Face area	No line curtain	Hung line curtain	0.0%
1 st xcut between # 3 & 4	Check curtain down	Hung check curtain	
# 2 Entry Face area	No line curtain	Hung line curtain	0.0%
# 3 Entry Face area	No line curtain	Hung line curtain	0.0%
# 3 Entry Face area	1.4% CH ₄	Hung line curtain, reduced CH ₄ to 0.0%	0.0%

* 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

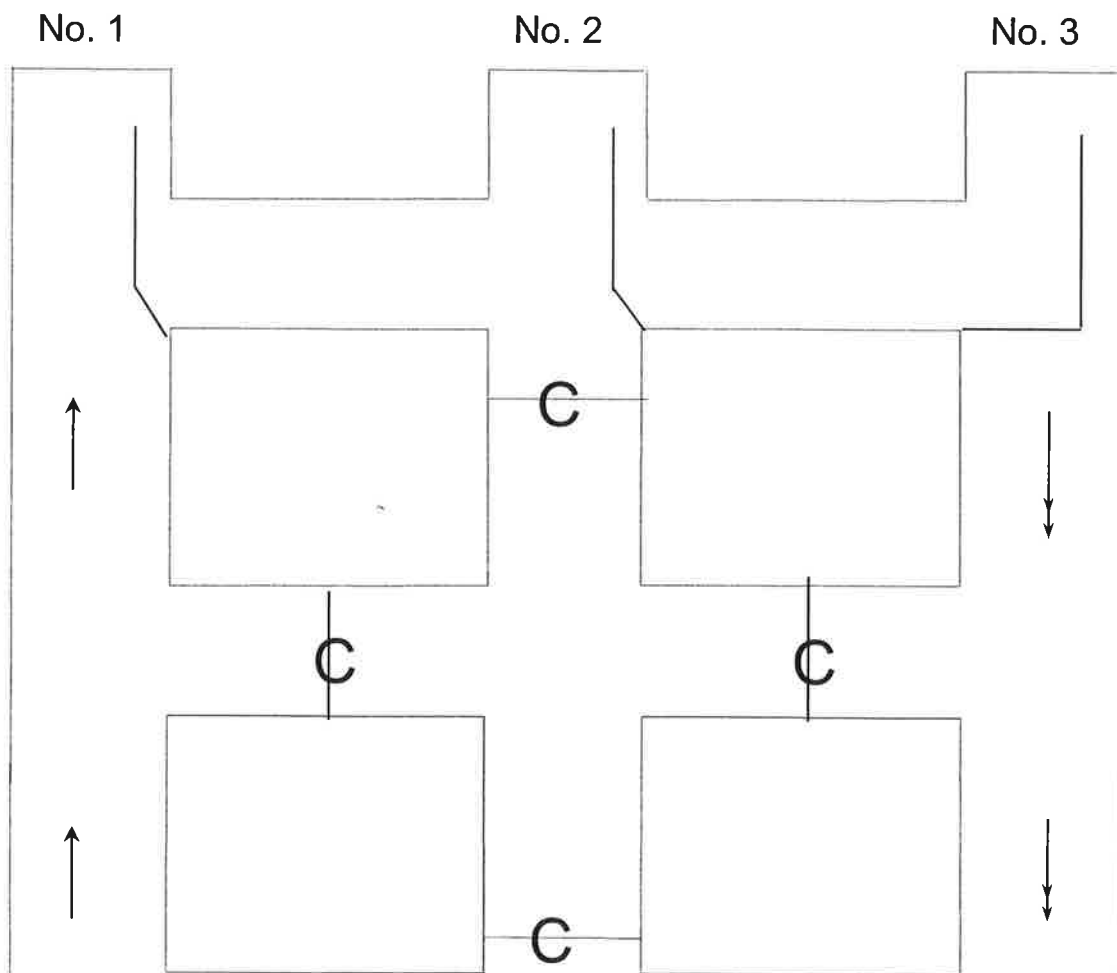
Location	CFM	Location	CFM
Last open crosscut	14,400		

Remarks: _____

 Signed by Pre Certified Examiner Date Certification Number

 Countersigned by Mine Foreman Date Certification Number

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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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1 SOUTH MAINS SEAL PLAN

Type: Seals are 120psi type Micon Main Line Hybrid II seals.

Ventilation: Line curtain will be hung from the nearest airway to within 5 feet of the face of the seal.

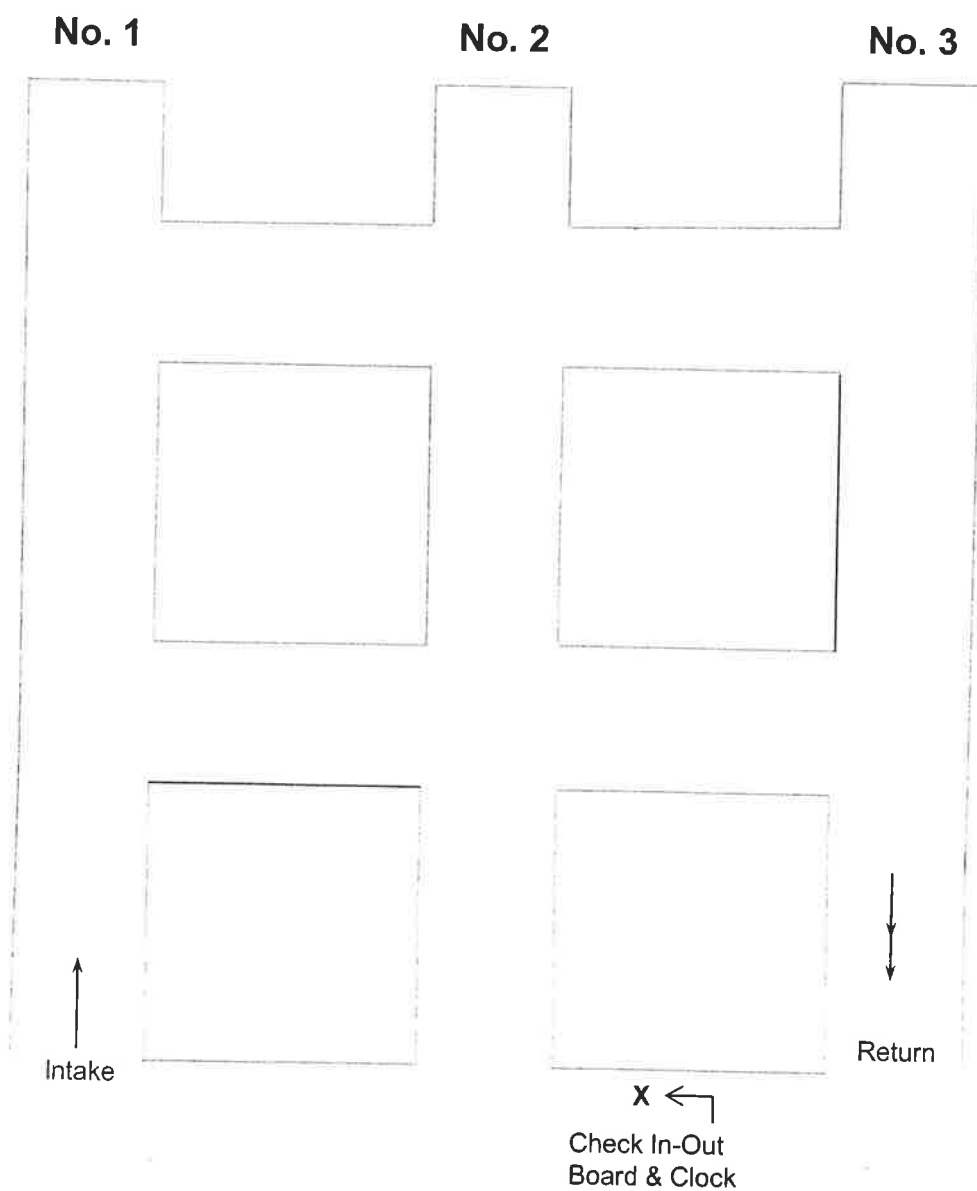
Roof support: 2 Wooden cribs or 2 Steel jacks will be installed on the outby side of each seal.

Water drainage system: 4 inch diameter drain pipe with a water trap, shut off valve will be left open.

Gas monitoring system/Sampling tube: Sampling pipes specific to this plan will consist of a 1/2 inch or less diameter pipe constructed of non-metallic corrosion resistant material with a shut-off valve. The shut-off valve will remain closed.

Convergence: A pogo stick marked in one inch increments will be installed in the middle of the entry within 5 feet of each seal. The pogo stick will be marked in one inch increments.

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Judges Map



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