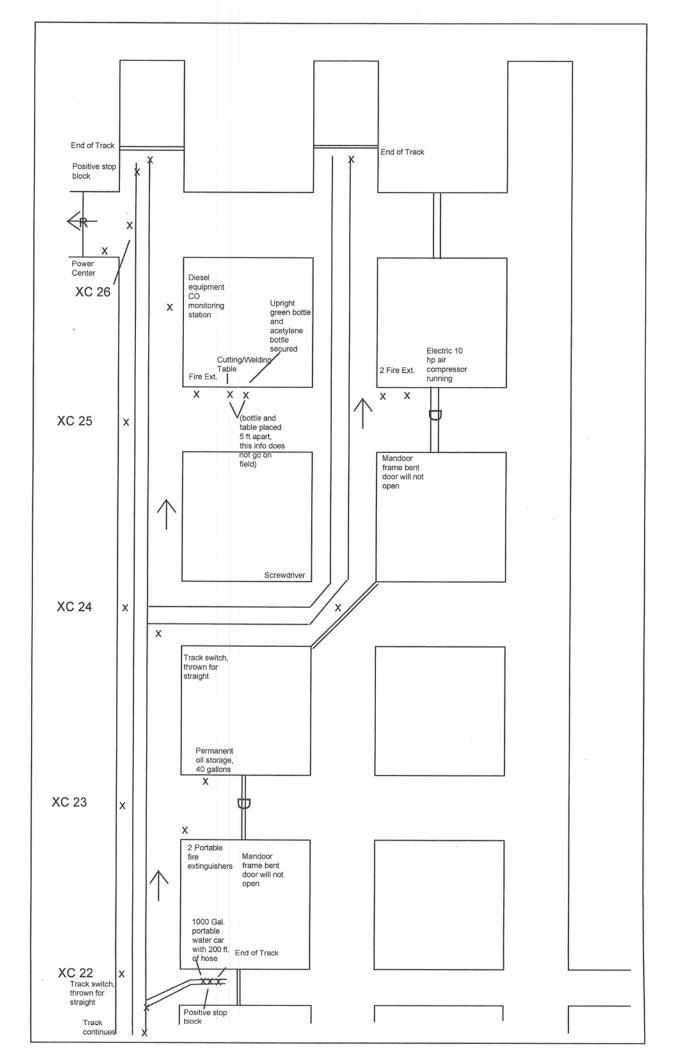
Alabama Preshift Problem 2016



Judges Info

The field is cut in half on a sort of diagonal.

Make sure Crosscut number placards are in place.

Ensure the cutting table and the gas bottles are 5 feet apart.

The power center should only have pumps and the 10 HP air compressor. Only the Air compressor should be de-energized.

Air reading required to be taken at the CO monitoring station.

Area - 20 x 7

Velocity 200 (as long as no ventilation changes were made.)

If a contestant removes a stopping, discount under rule 17.

All gas readings are 0% CH4, 20.8% methane

List of hazards

XC 22, #1, water car is missing 100ft. of water hose.

75.1100-1(b)

XC 23, #1, oil storage is missing 240 lbs of rock dust

75.1100-2(f) "and" statement

XC 23, #1, man door won't open

75.333(c)

XC 25, #1, cutting table too close to bottles

75.1106-4(g) 5 ft apart, not >10ft

XC 25, #1, oxygen bottle not labeled

75.1106-3(a)(1) o2 not labeled

XC 25, #2, man door won't open

75.333(c)

XC 25, #2, air compressor running non

75.344(a)(1) or (a)(2) not manned, or monitored and vented

XC 26, #2, missing stop at end of track

75.1403-10(e) end of track with no stop

Scorecard Items

| Start Clock | Υ | N | Rule #1 Field |
|---|---------|---|-------------------|
| Check In | Υ | N | Rule #1 Field |
| Check Out | Υ | N | Rule #1 Field |
| Stop Clock | Υ | N | Rule #1 Field |
| Equipment List | Υ | N | Rule #2 Field |
| Examine SCSR | Υ | N | Rule #3 Field |
| Gas Detector Per Rules | Υ | N | Rule # 25 General |
| #1 Entry | | | |
| Visual Roof and Rib | Υ | N | Rule #10 Field |
| Gas Test In Entry (Other gas tests in #1 will count) | Υ | N | Rule #5 Field |
| Gas Test CO Station Air Reading | Υ | N | Rule #5 Field |
| DTI Gas Test | Υ | N | Rule #4 Field |
| DTI Entry (hazard DTI can count) | Υ | N | Rule #4 Field |
| Danger Off Missing Hose water car | Υ Υ | N | Rule #11 Field |
| Danger off Missing rock dust oil sta | ation Y | N | Rule #11 Field |
| Danger off mandoor | Υ | N | Rule #11 Field |
| ID Table/Bottles Too close | Υ | N | Rule #11 Field |
| Correct Table/Bottles too close | Υ | N | Rule #12 Field |
| Gas Test Power Center | Υ | N | Rule #5 Field |

| DTI Power Center | Υ | N | Rule #4 Field |
|---|-----|---|----------------|
| Verbalize Regulator | Υ | N | Rule #7 Field |
| Entry #2 | | | |
| Visual Roof and Rib | Υ . | N | Rule #10 Field |
| Gas Test In Entry (Other gas tests in #2 will count) | Υ | N | Rule #5 Field |
| Danger off missing stop block | Υ | N | Rule #11 Field |
| ID Running Air Compressor | Υ | N | Rule #11 Field |
| Gas Test Air Compressor | Υ | N | Rule #5 Field |
| Correct Air Compressor | Υ | N | Rule #12 Field |
| Danger off mandoor | Υ | N | Rule #11 Field |

| Date of Exam | | Time of | Exam | AM/ | PM to | AM/PM |
|------------------|------------------------------|------------|------------------------------------|-----------------------|--------------|--|
| Section/Area | Area Reported Outside YES No | | | | | |
| Reported By: | Reported By: Received By: | | | | | |
| | | | | | | • |
| Location | 02 % | CH4% | Haza | rd or Viol | tion | Action Taken |
| XC 22 #1 entry | 20.8 | . 0 | water | ar missing | g hose | danger |
| XC 23 #1 entry | 20.8 | 0 | oil storage | e missing ı | ock dust | danger |
| XC 23 #1 entry | 20.8 | 0 | | oor won't | | danger |
| XC 25 #1 entry | 20.8 | 0 | cutting tabl | e to close bottles | to oxygen | moved dolly 10 ft away |
| XC 25 #1 entry | 20.8 | 0 | "green b | ottle" not | labeled | danger (does not know contents cannot label) |
| XC 25 #2 entry | 20.8 | 0 | man d | oor won't | open | danger |
| XC 25 #2 entry | 20.8 | 0 | air compressor running | | | de-energized at power center |
| XC 26 #2 entry | 20.8 | 0 | end of track missing positive stop | | ositive stop | danger |
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| | | | | | | |
| t and the second | | dings / Ga | | | | |
| Location | CFM | | 0 | 2% | CH4% | Direction |
| CO station | 28,000 | CFM | | 20.8 | | north/proper |
| Power Center | | | | 20.8 | 0 | |
| Air Compressor | | | | 20.8 | 0 | |
| , | l | | | | | |

Date

Cert. Number

Signed by Preshift Examiner

Thank you for pre-shifting our motor pit area. No one has been working in the area since it was pre-shifted for last shift. We need you to preshift crosscuts 22-26, intake entries only. You are pre-shifting for the oncoming maintenance crew that will be performing CO exhaust readings on several pieces of equipment including 2 lo-tracs and 3 locomotives. Please take an air reading at the CO station, ensuring enough air for one piece of equipment at a time. This mine utilizes 2 portable water cars for firefighting protection. Someone else is preshifting the return entries. The power center must remain energized to run the pumps in the return, unless a hazard dictates knocking all the power. For the purpose of this problem, all electrical cables have been removed, but any equipment that would normally have a cable we will assume it has a cable. Placards will indicate if equipment is running or not. Permanent stoppings cannot be removed. Only man doors can be used for travel between entries. You must start your examine in the #1 entry.

Ventilation Plan

CM Sections

Faces using line curtain to ventilate

- 17,500 CFM required to ventilate face where mining is occurring.
- 12,500 CFM required to ventilate faces where roof bolts are being installed
- 17,500 CFM required to ventilate idle, un bolted places
- 5,000 CFM required to idle faces bolted within 5 feet.

Longwall Sections

- Last open crosscut must maintain 50,000 immediately outby stageloader
- 725 ft/min shield 10
- 675 ft/min midface
- 563 ft/min shield 178

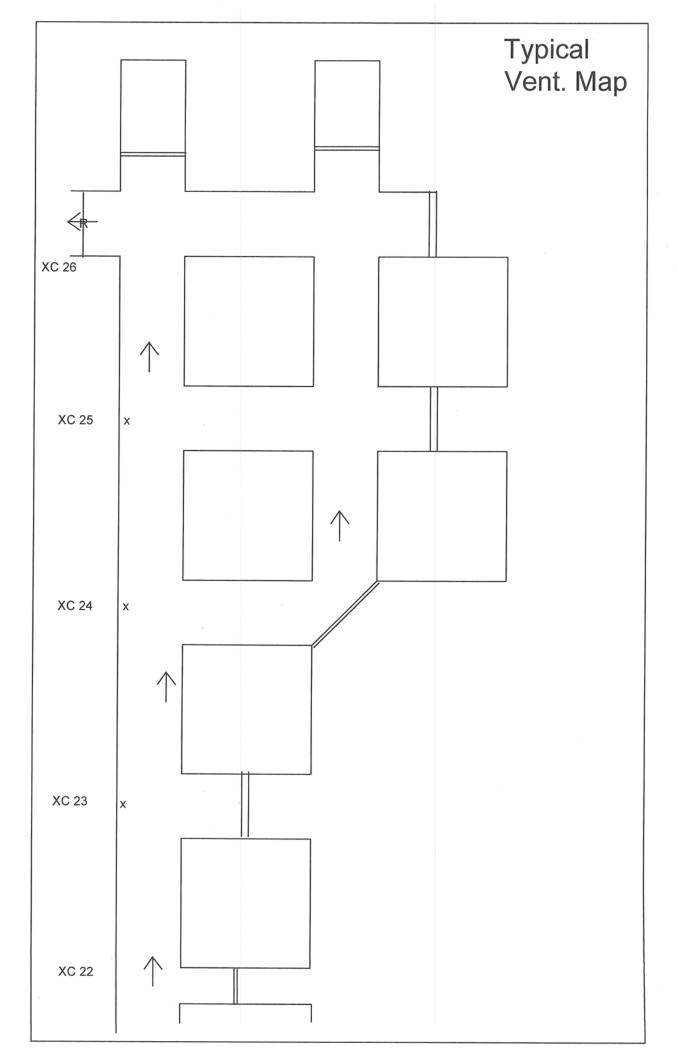
Outby

Minimum Air requirements for outby diesel equipment

- Track bolter when tramming only 10,000 CFM
- Track bolter when bolting when installing roof bolts 17,500 CFM
- Lo-trac 15,000 CFM
- 5 man personnel carriers 10,000 CFM
- 10 man personnel carriers 15,000 CFM
- 16 man personnel carriers 20,000 CFM
- Locomotives 17,500 CFM

Hot work

Anytime anyone will be actively cutting, burning or welding underground, a burn permit must be requested by the working crew to at least the assistant mine foreman or higher. Burn permits also require the area to be adequately rock dusted prior to work being performed. Once finished, the area must be adequately wet down and a fire watch performed for 10 minutes after the last hot work action.



Roof Control Plan

Minimum required roof support is 5 ft. by 5 ft.

Roof support materials include

- 8 ft. resin bolts
- 4 ft. resin bolts
- Timbers
- Cribs
- Pilasters
- Pumpable cribs

Along trackways with adverse roof conditions, collars and timbers or screw jacks must be utilized.

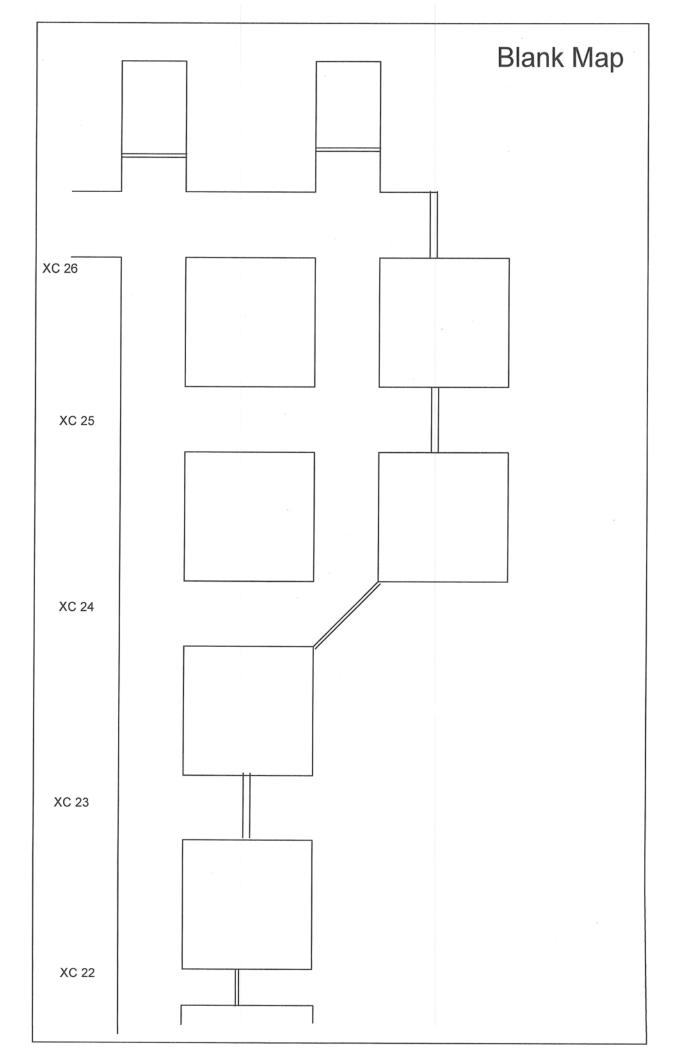
Brows extending 18 inches past solid rib must be supported with timbers and then chain link fence installed.

Water must not be allowed to accumulate over the track rails.

All end of tracks must have a positive stop block.

All switches will be maintained in safe operating condition.

De-coupler devices must be maintained on both ends of all track mounted equipment.



| Date of Exam | | _ Time of | Exam | AI | M/PM to | AM/PM |
|-----------------------|---------|-----------|-------------|------------|---------|--------------|
| Section/Area | | Repo | rted Outsid | le YES | No | |
| Reported By: | | | Received | Ву: | | |
| Location | 02 % | CH4% | Н | azard or V | ioltion | Action Taken |
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| | Air Rea | dings | | | | |
| Location | CFM | | | 02% | CH4% | Direction |
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| | | | | | | |
| Signed by Preshift Ex | aminer | | | Date | | Cert. Number |