

Post 5 2009 Mine Rescue Contest



Morgantown, WV

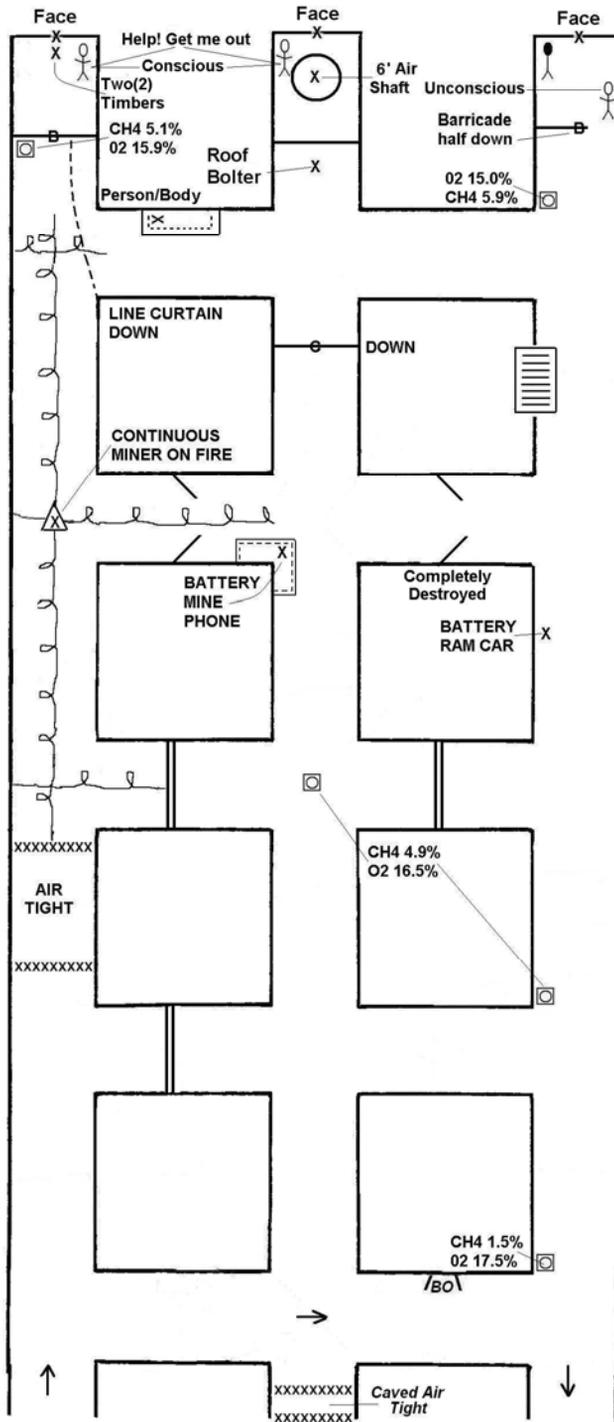
Post 5

Mine Rescue Contest

Mine Foreman Statement

Thank you for responding to our mine. We are not sure what has happened on the First Right Section. There is an air shaft four crosscuts inby the fresh-air-base. The air shaft was just completed and was blocked off with a temporary stopping yesterday. The air shaft has been made on the surface and no air movement was detected. Bareface crews established a fresh air base here and need your help. The map is solid line and is up-to-date. The exhaust fan on the surface is on and must remain on during the working of the problem. Five men were sent to the section to weld on the miner and rock dust. One of them called outside and said a fire had occurred and that he was going back to look for his buddies. Shortly after the phone call, a loud noise was heard and attempts to reach the section by phone has been unsuccessful. The section is walking height and the roof is supported by bolts unless otherwise shown. All electrical circuits have been locked out and guarded. All officials have been notified and are present. A back-up team is on site. Water and methane have been frequently encountered at this mine. No material, other than what you find on the section, is available to you.

You will receive two blank maps and final instructions when you start the clock. Thanks for being here and good luck.



TEAM INSTRUCTIONS

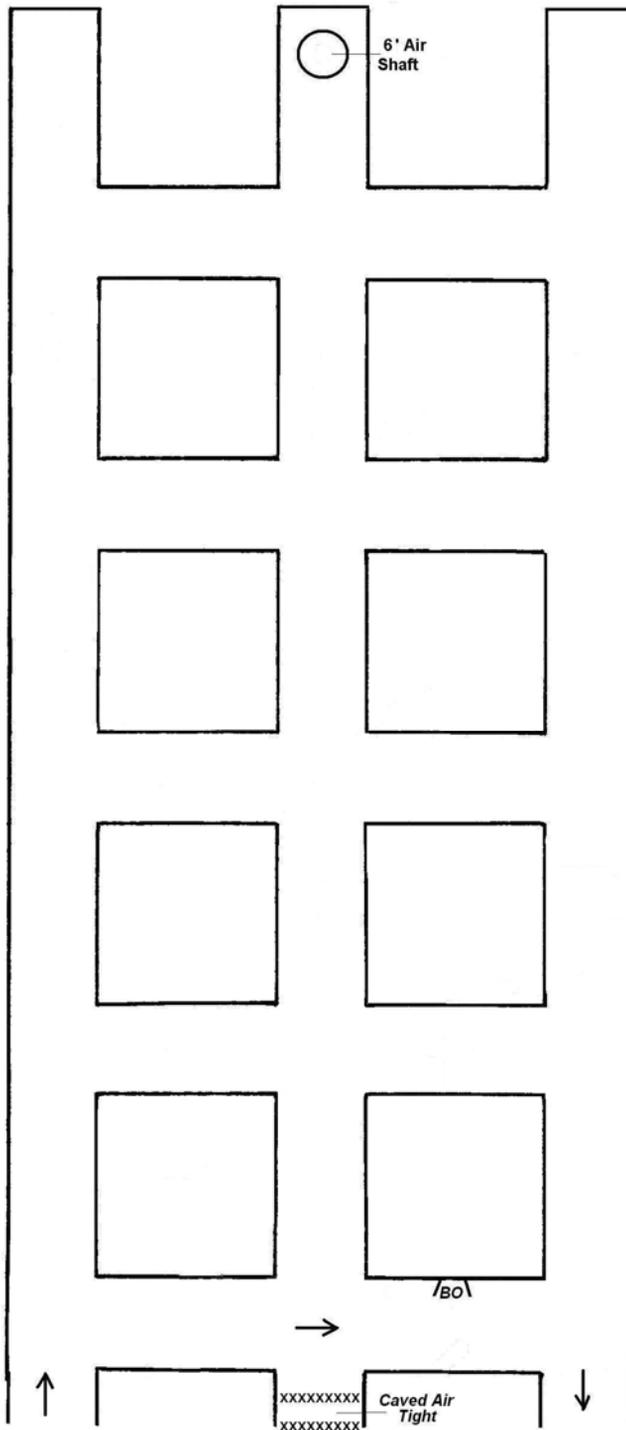
- Exhaust fan cannot be stopped stalled or reversed.
- Account for all missing persons
- Bring any survivors to the fresh air base
- Leave the mine where bodies if found, can be recovered barefaced
- Bodies if found, must not be moved

Patient Statements

No.2 entry behind Temporary stopping. Have patient read when captain breaks line going toward stopping. **Help! Get me out!**

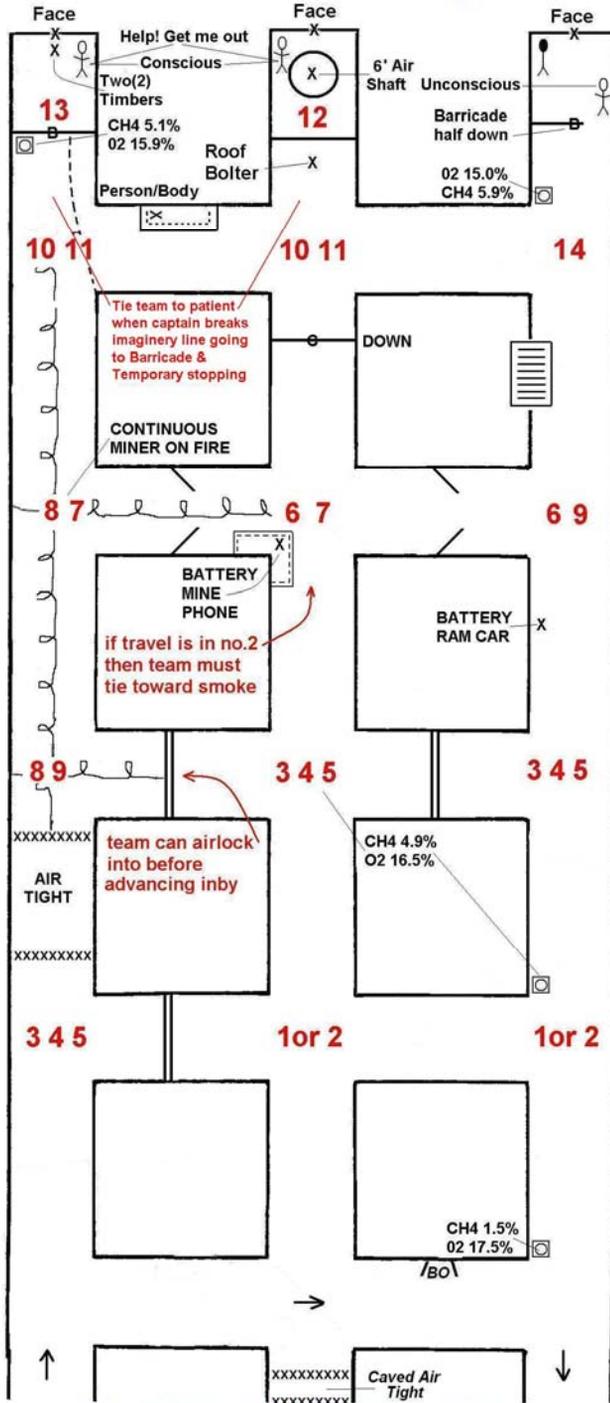
No.1 entry behind Barricade. Have patient read when captain breaks line going toward barricade. **Help! get me out!**

Team Map



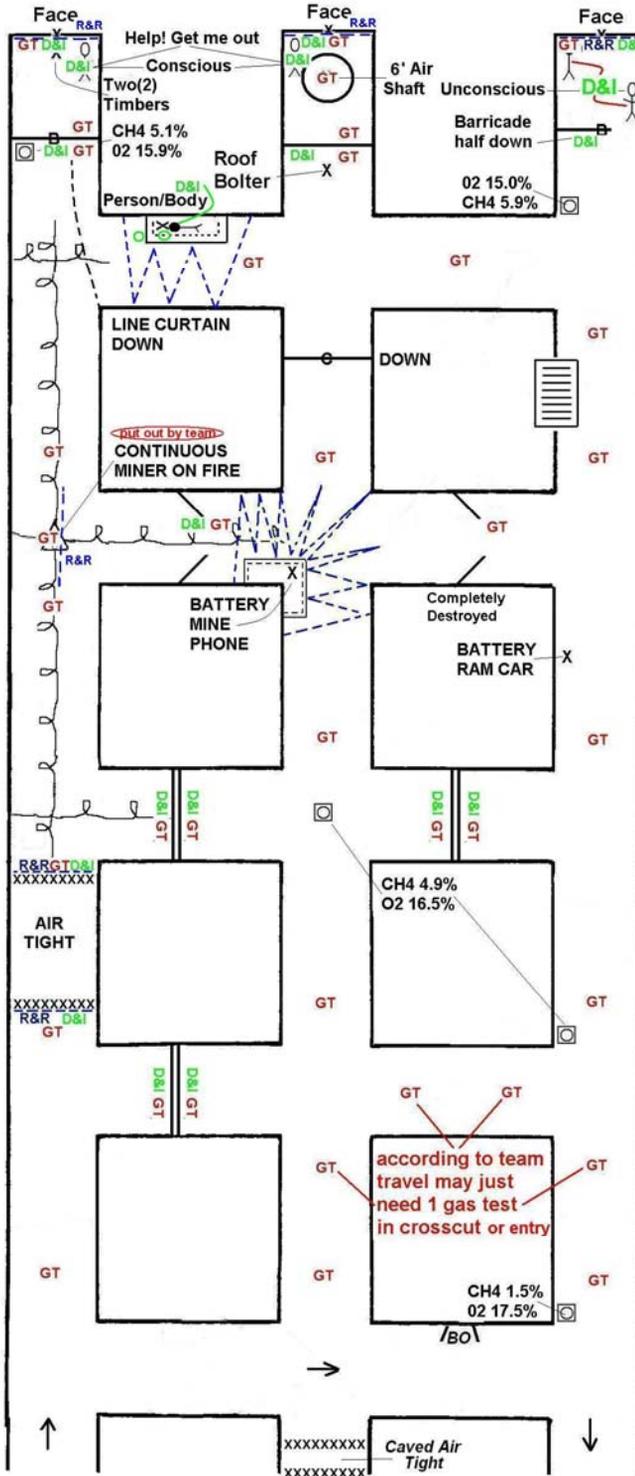
Team map 1inch is 10 feet

Possible Team Stops



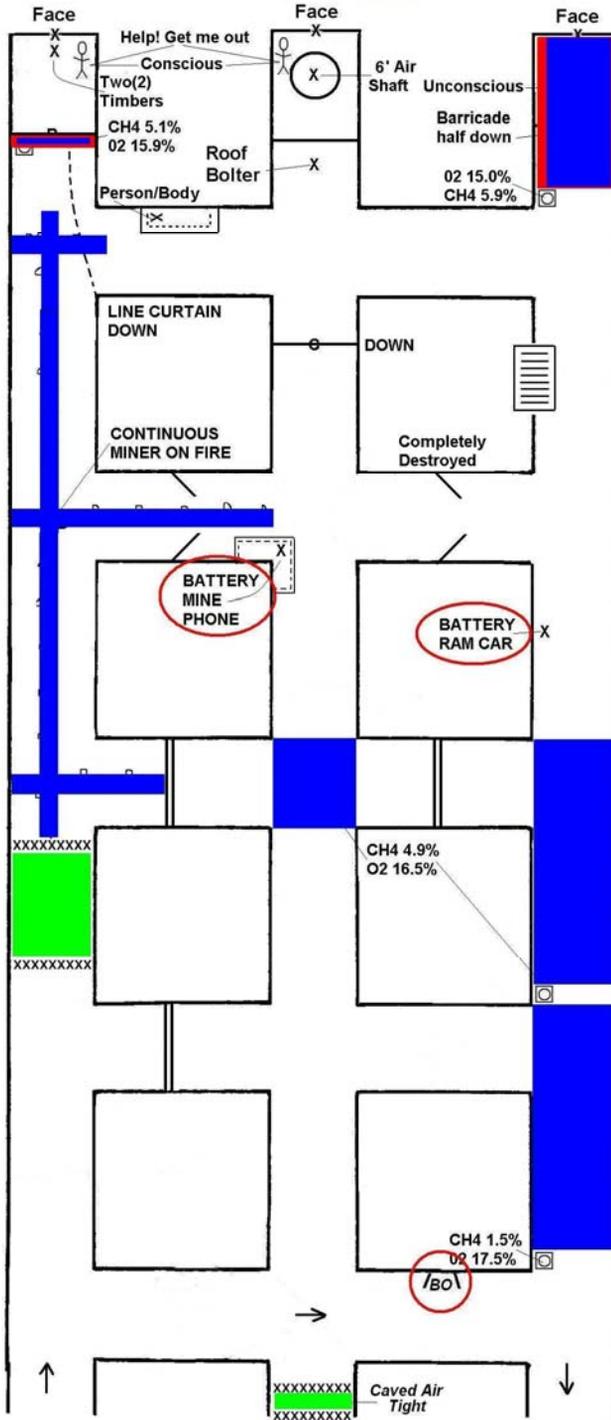
Team must rescue patient behind temporary stopping with airshaft at that team stop. Patient must be put under O2 to bring to FAB

R&R Roof and Rib Test
GT CH4-CO-O2 Test
D&I Date and Initials

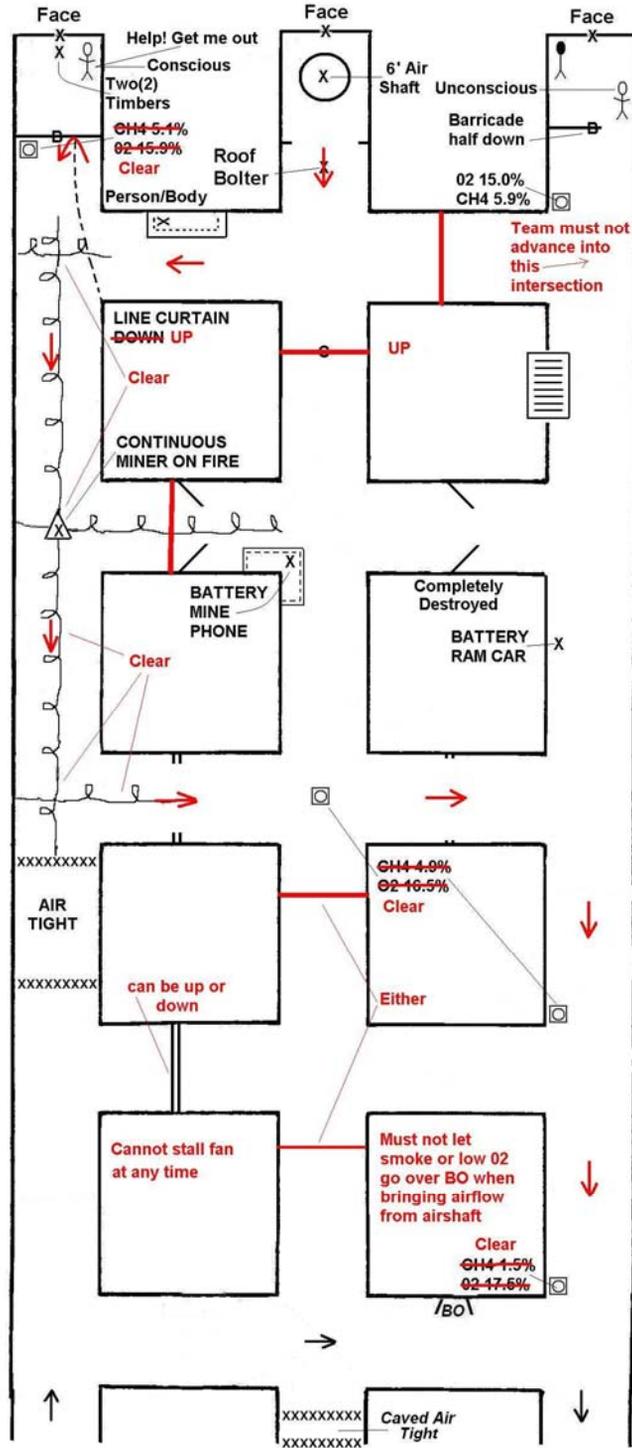


Extent of Gases and Smoke

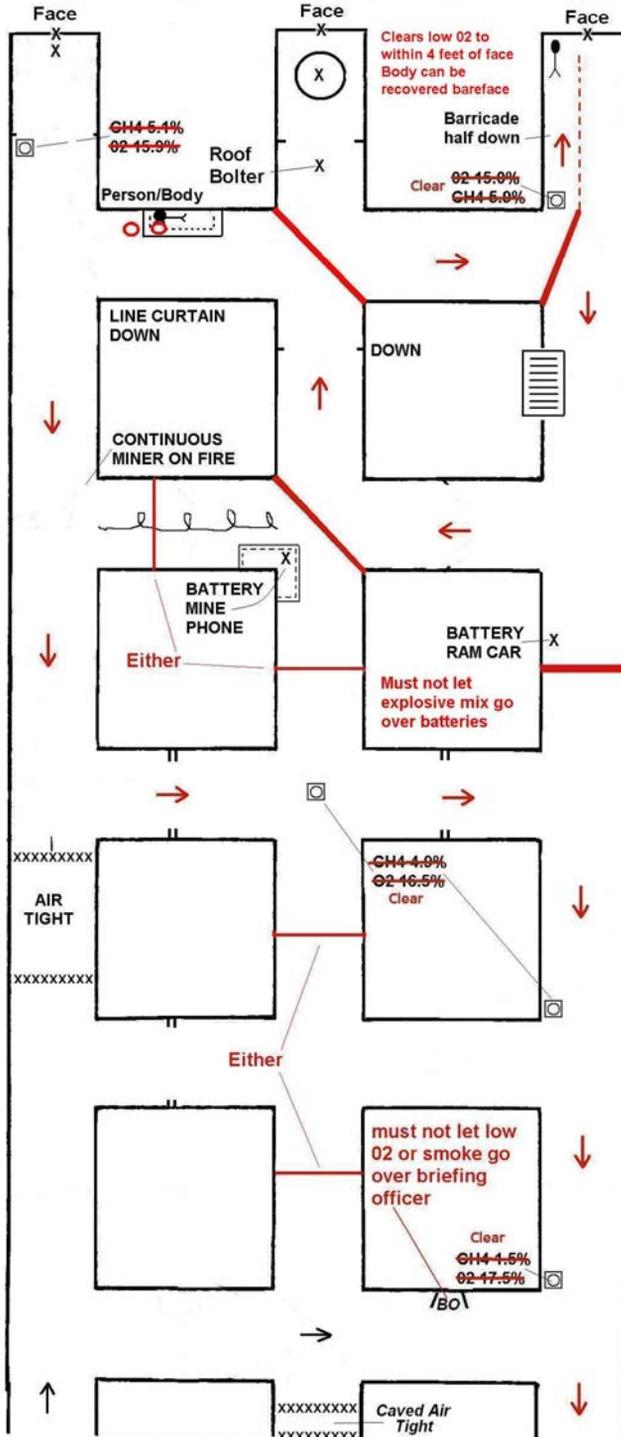
Explosive █
 Irrespirable █
 Unexplored Areas █



First Ventilation

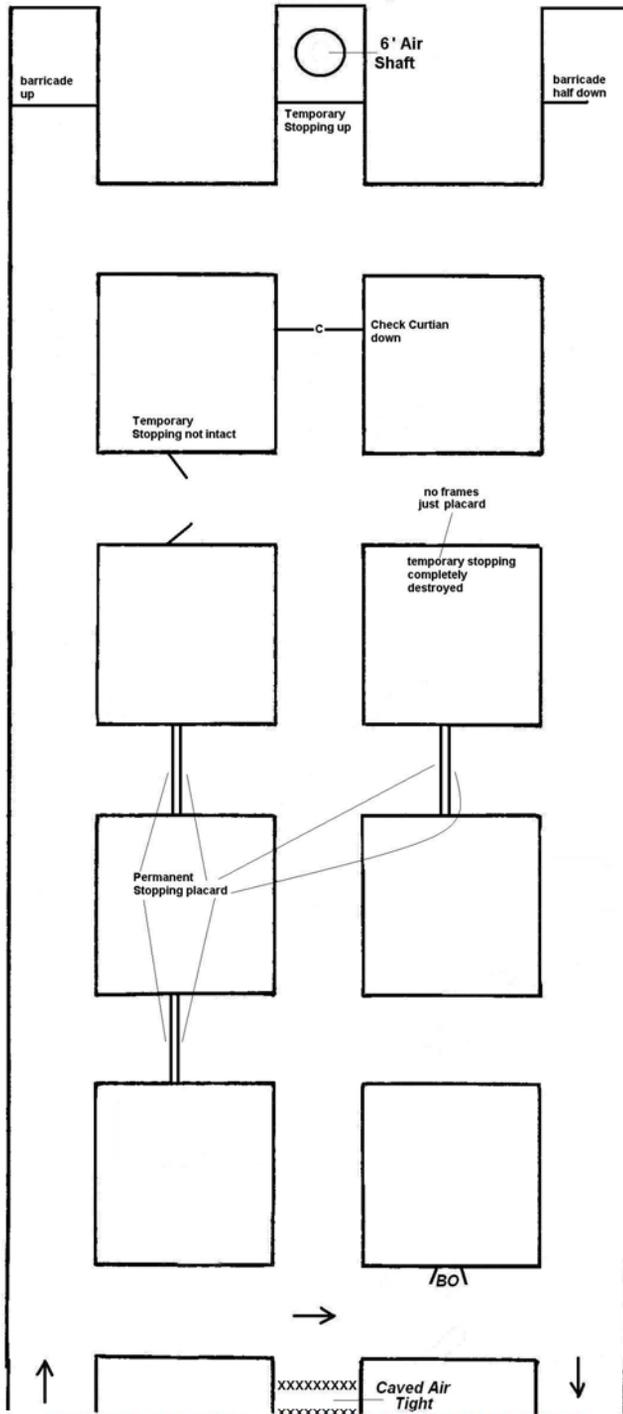


Second Ventilation



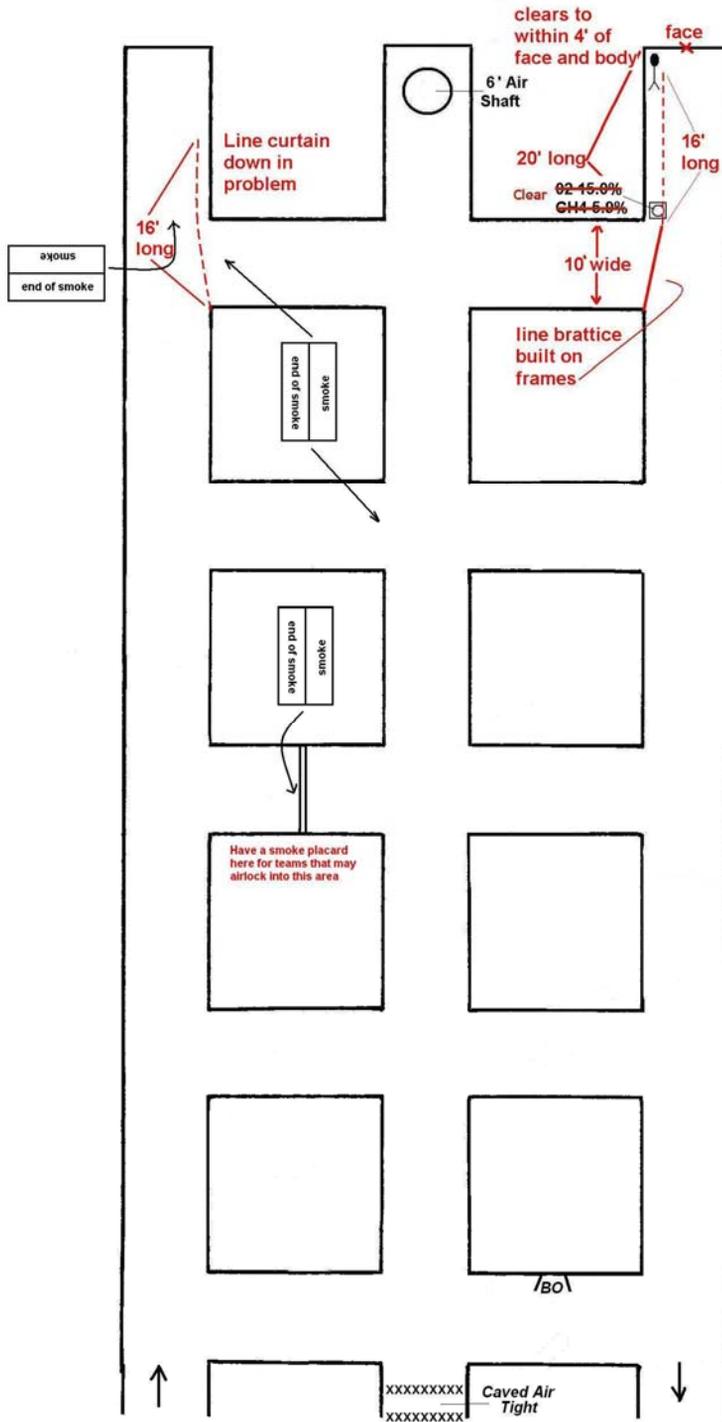
This vent takes 8 sets of frames.
 Line brattice built on frames can extend from the face
 or from the corner (like shown above)

Frame Map



8 sets of frames per field.... line curtain is laying stretched out in no.1 entry just outby barricade.....2 unsafe roof areas and 1 unsafe rib..... 2 timbers per field

Line Curtain and smoke example



Keys Points to Problem

- Teams must rescue man behind Temporary stopping at that team stop. No irrespirable outby temporary stopping.
- Teams must not advance to intersection of half down barricade until they have rescued man behind barricade in no.1 entry. (see vent 1 map)
- Team must timber to person after taking patient in no.1 entry barricade to FAB
- The irrespirable gas outby the half down barricade extends to the face. Team must follow written instructions and wing low O2 so body can be recovered barefaced. (see vent 2 map)
- The line curtain is not long enough to wing to the face. To extend, teams must build line brattice with brattice cloth and frames to extend line curtain to sweep irrespirable so body can be recovered barefaced.
- Teams must be careful not to let low O2 or smoke go over briefing officer. The air coming from the airshaft can pull low O2 over BO if teams do not block off before letting air come from airshaft.
- Must bring unconscious man out under oxygen
- Must not send explosive mixtures over batteries
- Just enough frames (8 sets) available to ventilate problem.