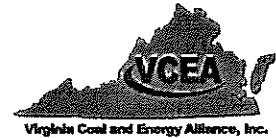
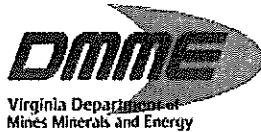


***2016 Virginia Governor's Cup
Mine Rescue and Safety Skills Competition***

JUDGES PACK

**Virginia Coal and Energy Alliance,
Virginia Department of Mines, Minerals, and Energy &
The University of Virginia's College at Wise
Wise, Virginia**



Thursday June 2nd, 2016

***The University of Virginia's College at Wise
1 College Avenue • Wise, VA 24293
Phone: (276) 328-0100***

Governor's Cup 2016

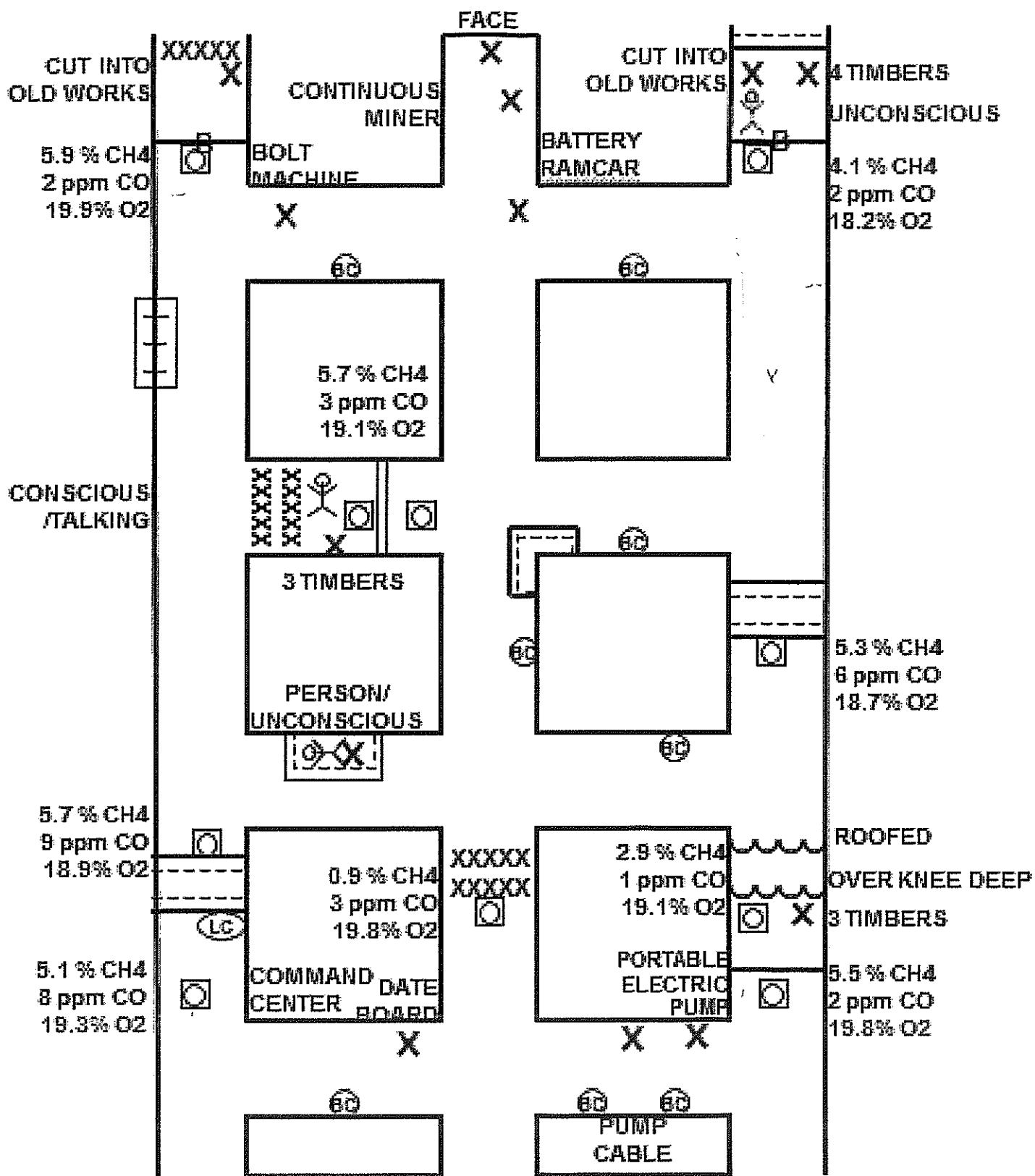
I am _____, Superintendent of Clean Coal Company # 1 Mine. Thank you for responding to our emergency. Last night a 3 person crew entered the mine to perform work. The section is driving toward another mine and had reported intersecting the mine in the # 1 Entry. When the outside person had not heard from them in a while, she tried to communicate with them and was not able to make contact. She contacted the mine foreman and he immediately came to the mine. As he began to enter the mine, he encountered high levels of methane, elevated carbon monoxide, and low oxygen. He was forced to exit the mine, notify the agencies, and notify mine rescue teams.

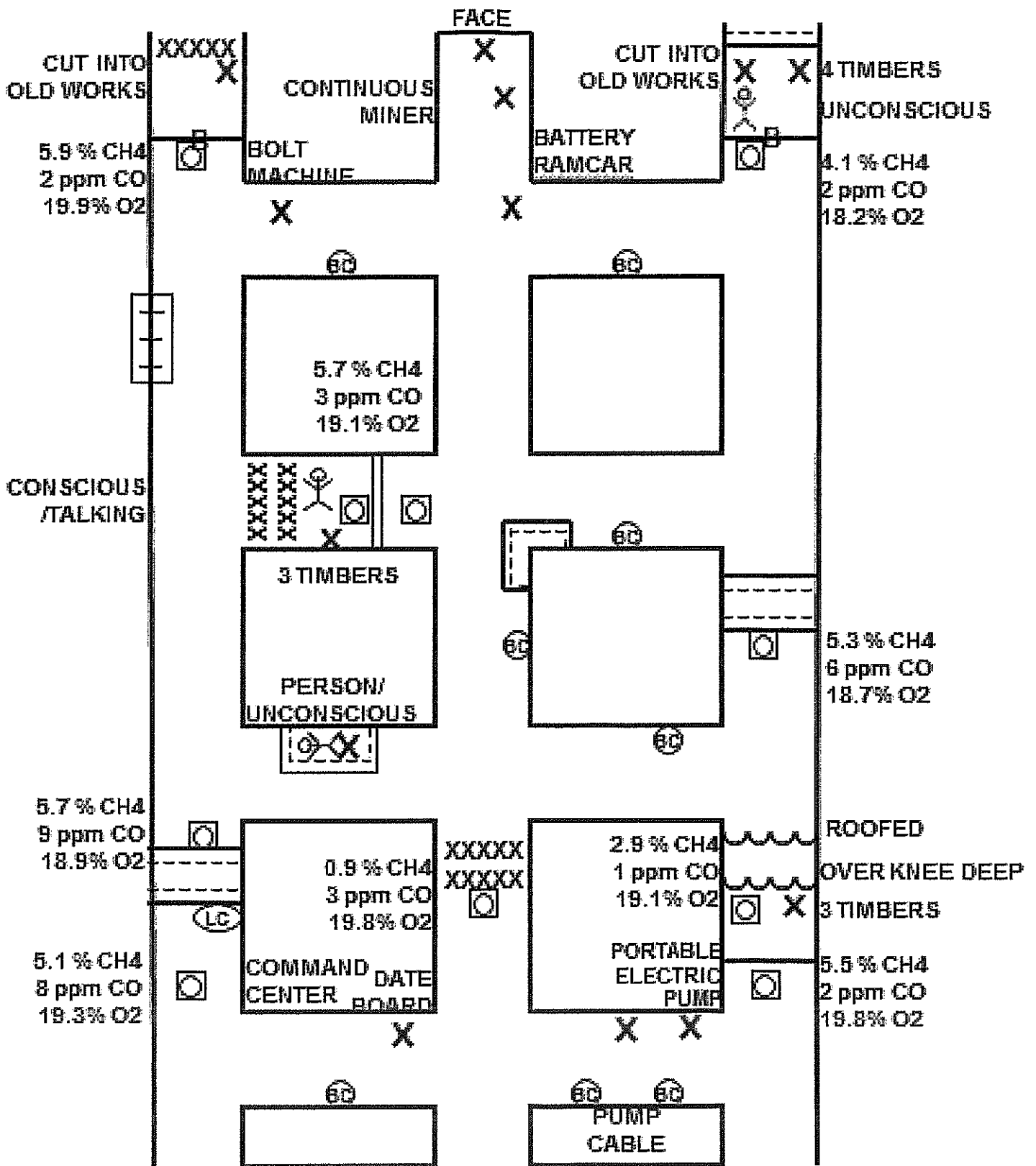
The miners were assigned to rock dust, clean up, and install additional roof support. The mine is ventilated by an exhausting fan that can not be stopped or reversed. Air intakes up the # 2 Entry and returns out the # 1 and # 3 Entries. All mine power has been disconnected but power requests can be made by having your briefing officer or command center attendant contact the superintendent. There is a low spot located in the # 3 Entry just inby the Fresh Air Base and it fills with water. The water must be pumped continuously or the water will immediately return. The power switch for the pump is in the command center.

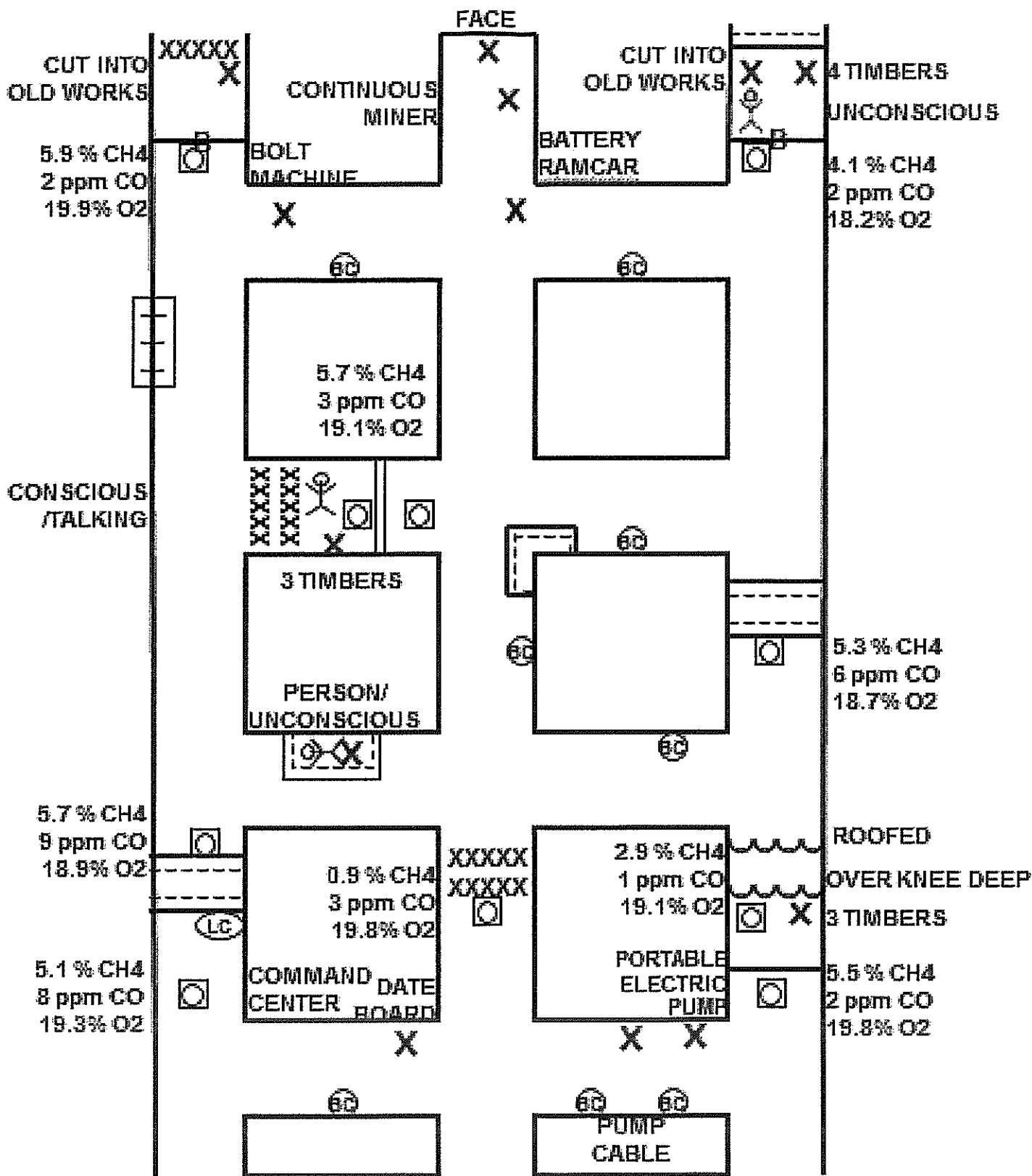
We will have a backup team ready if you have an emergency but they will not be able to perform any work in your area.

Governor's Cup 2016 Team Instructions

- Account for the missing miners.
- Explore all areas of the mine that can be done so safely.
- There is a 90 minute time limit and you will receive a 10 minute warning.



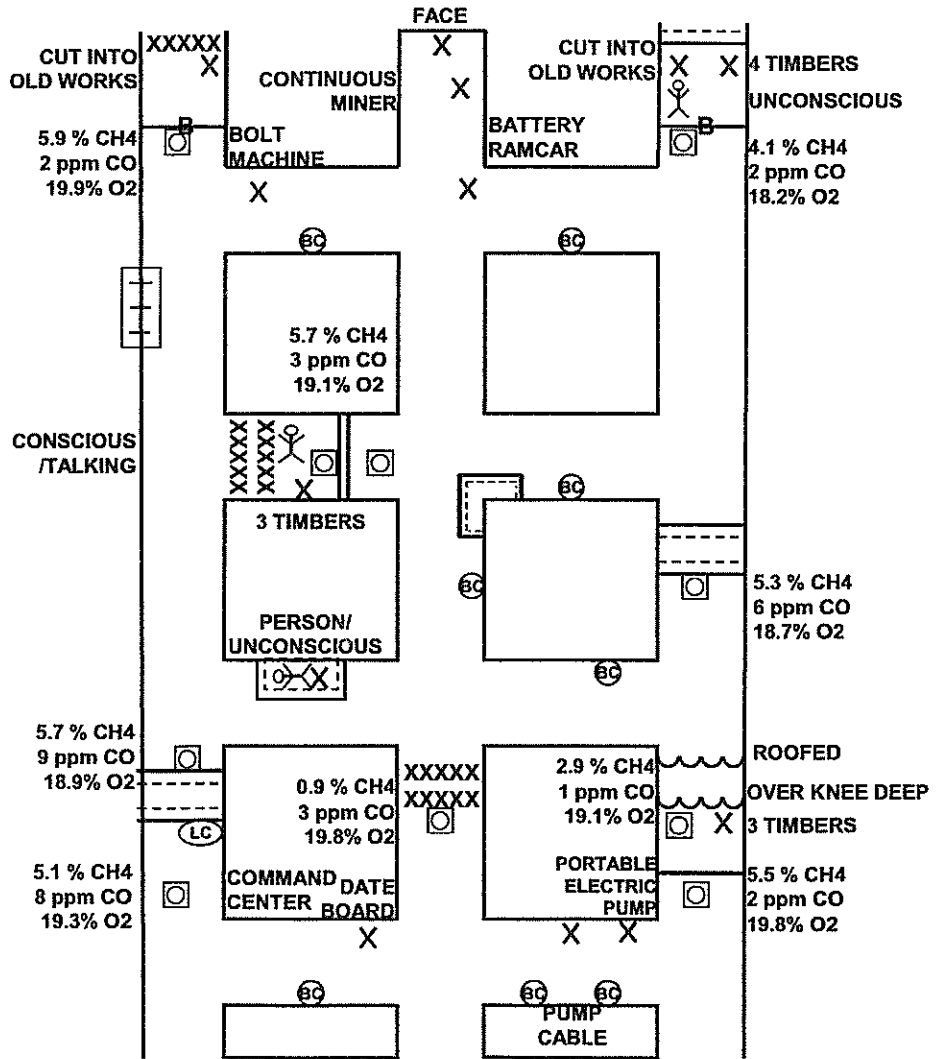




Problem

The unsafe roof in # 1 is 12 foot wide. The 3 timbers in # 3 will not enable the team to timber through the unsafe roof.

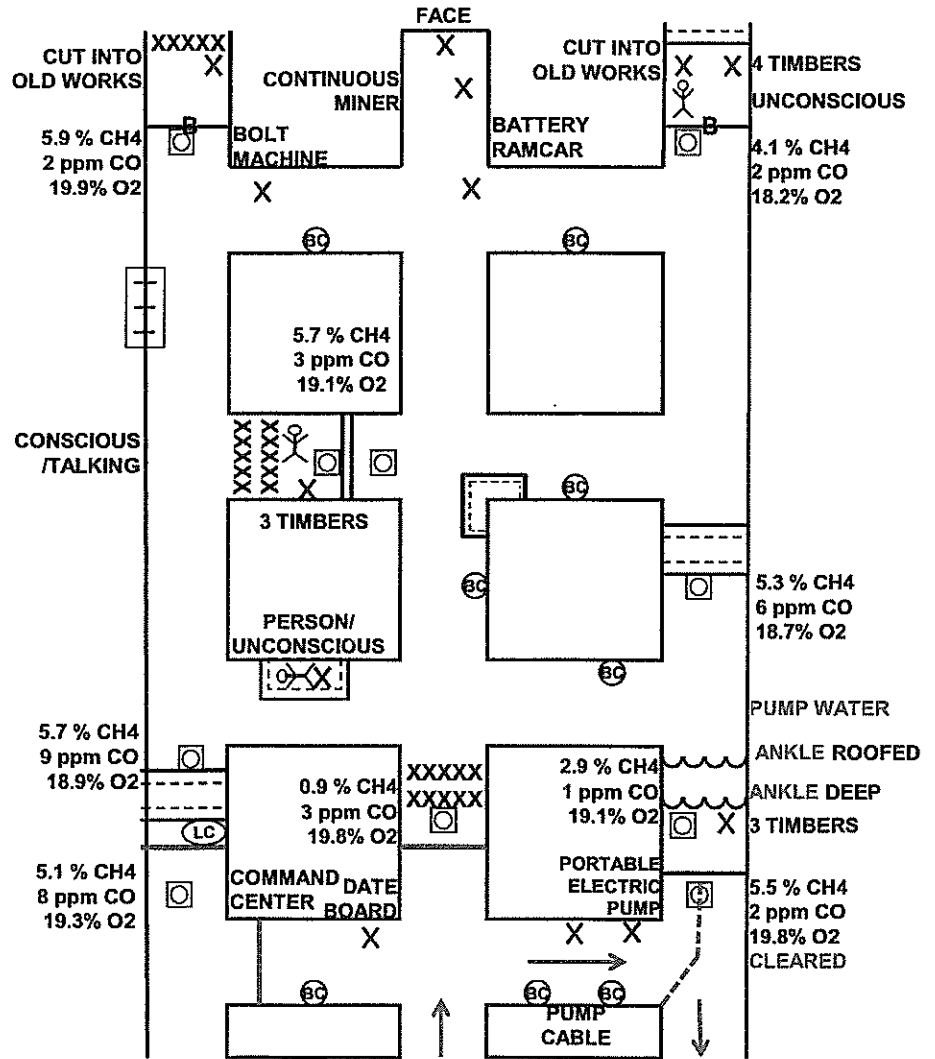
The team should first advance up # 3 entry after venting and pumping water.



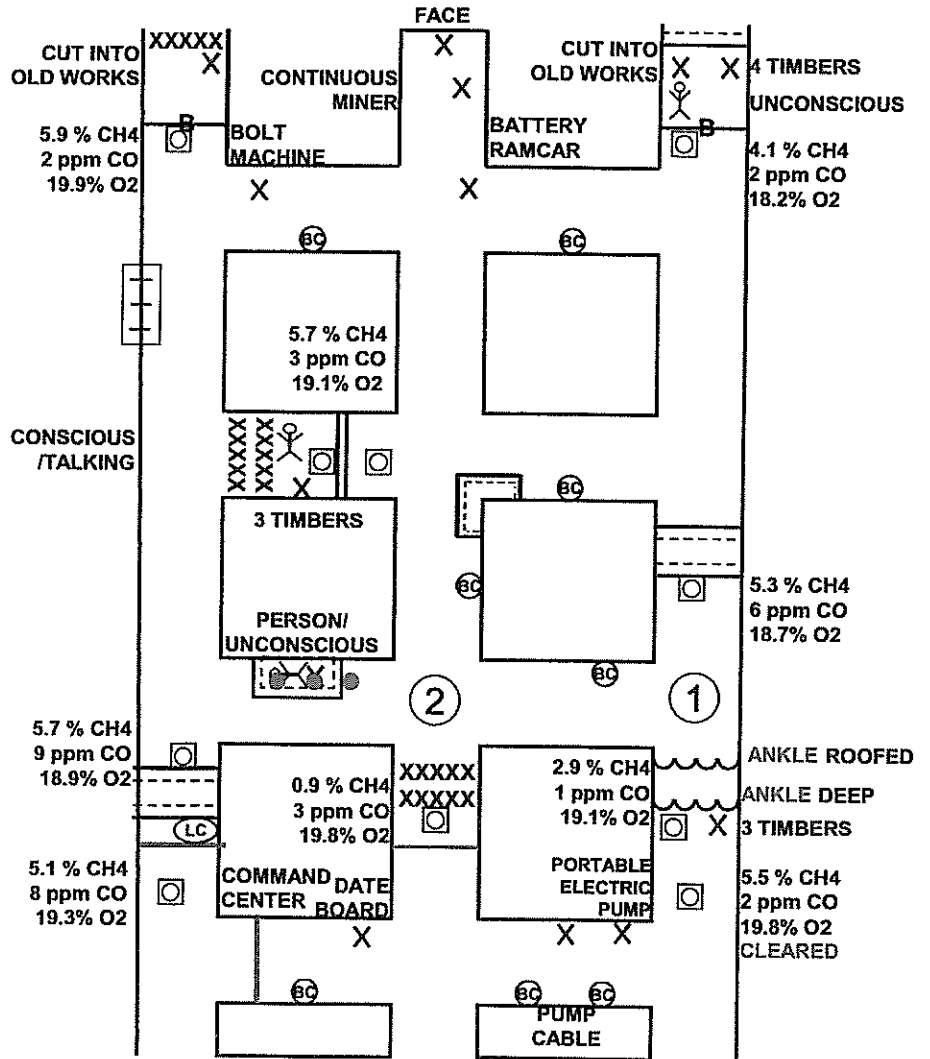
VENT 1

The water in # 1 is "over knee deep" on the outby side. If the pump is later turned off, the water will "roof" on the inby side and provide an airtight separation.

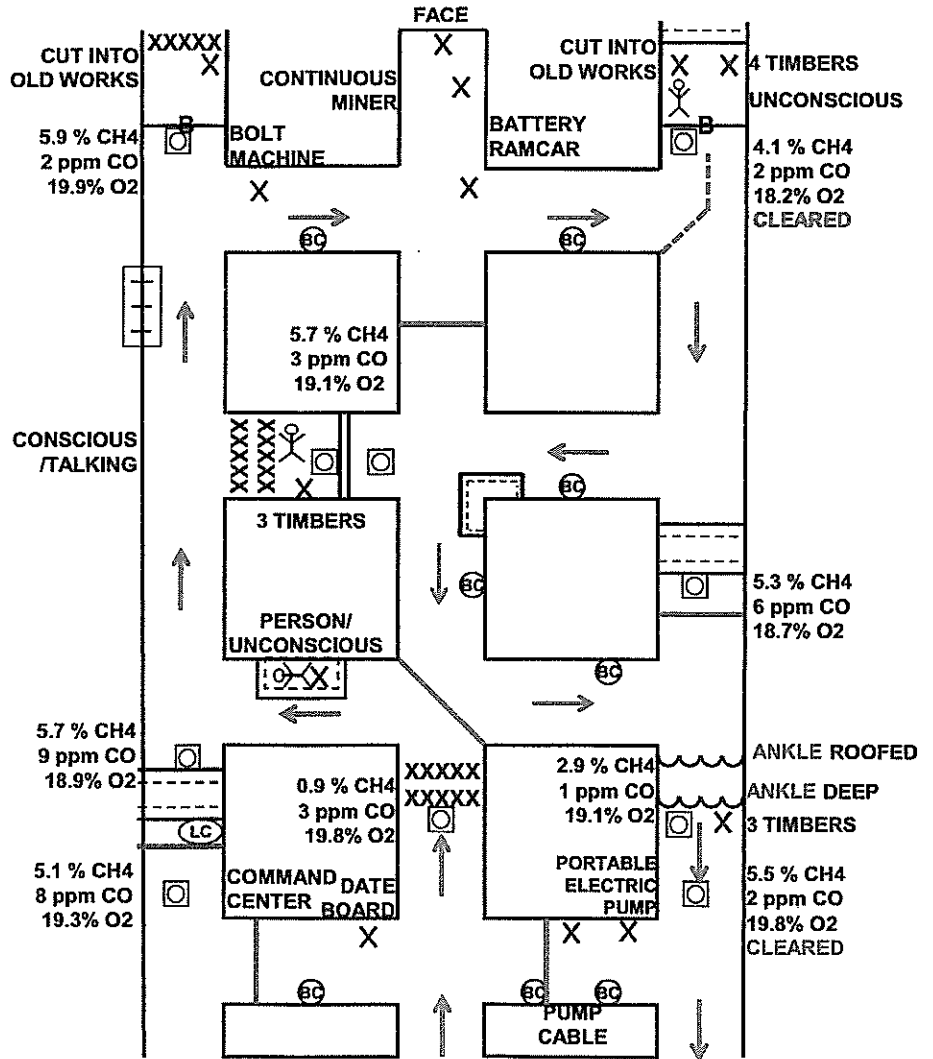
Winging out # 3 will remove the explosive mixture but not the irrespirable mixture just outby the water.



TEAM STOPS



VENT 2

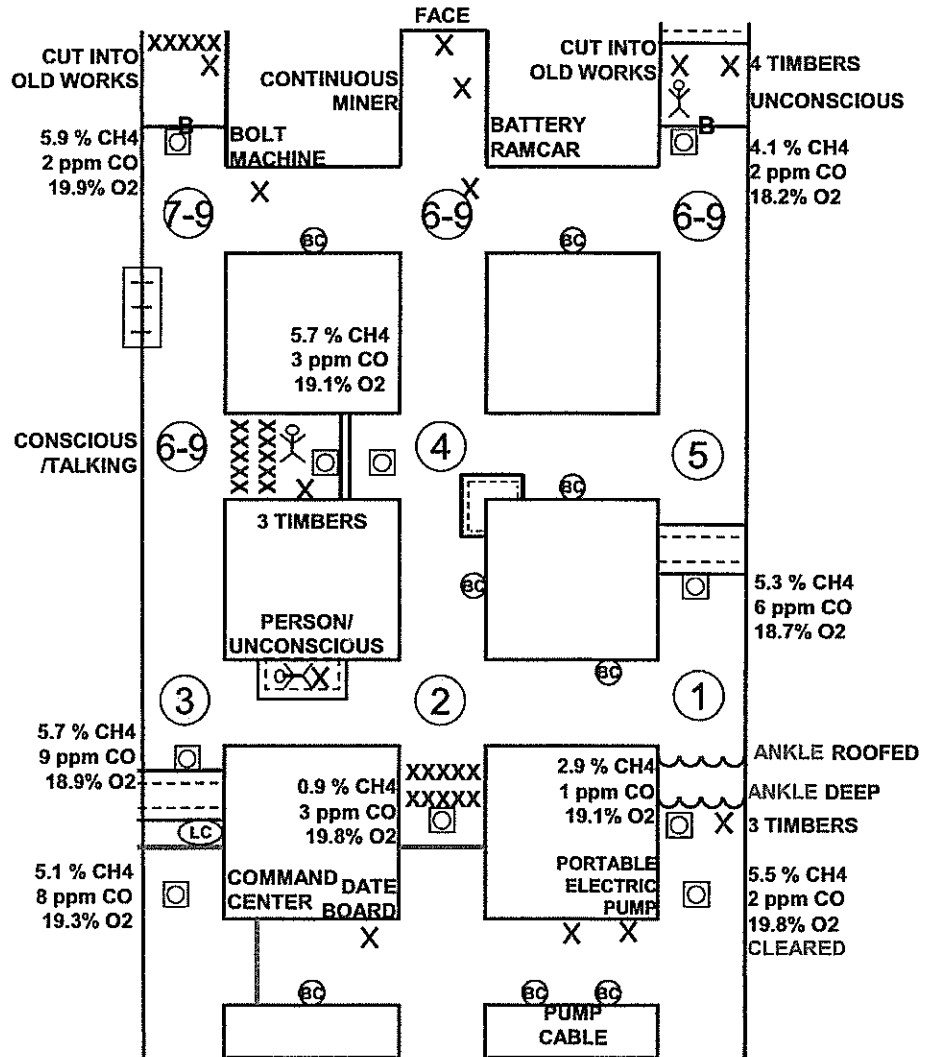


TEAM STOPS

Patient Statement when Team reaches Stop 4:

"Hey, anybody out there? Get me outta here!"

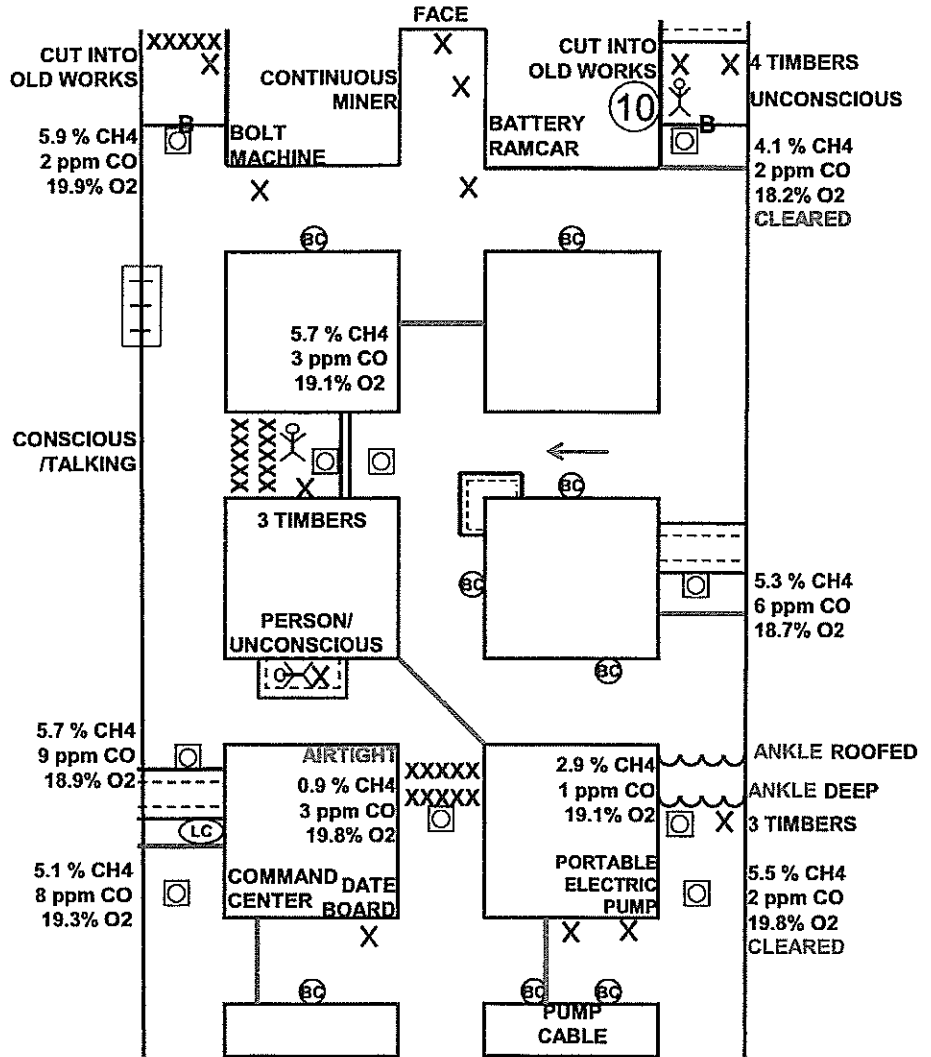
The atmosphere in front of barricade in # 1 is respirable. The teams may enter it at any time with venting or airlocking.



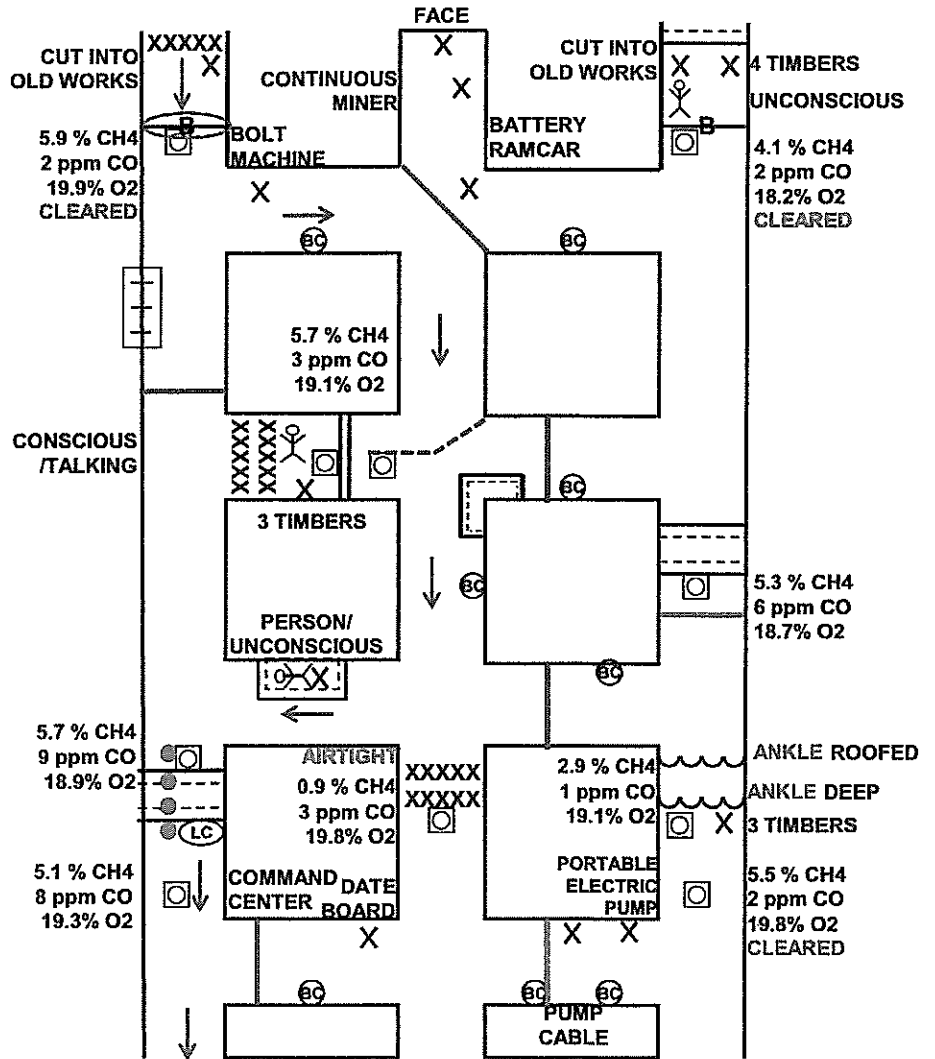
TEAM STOPS

NOTE to Team after entering barricade in # 3:

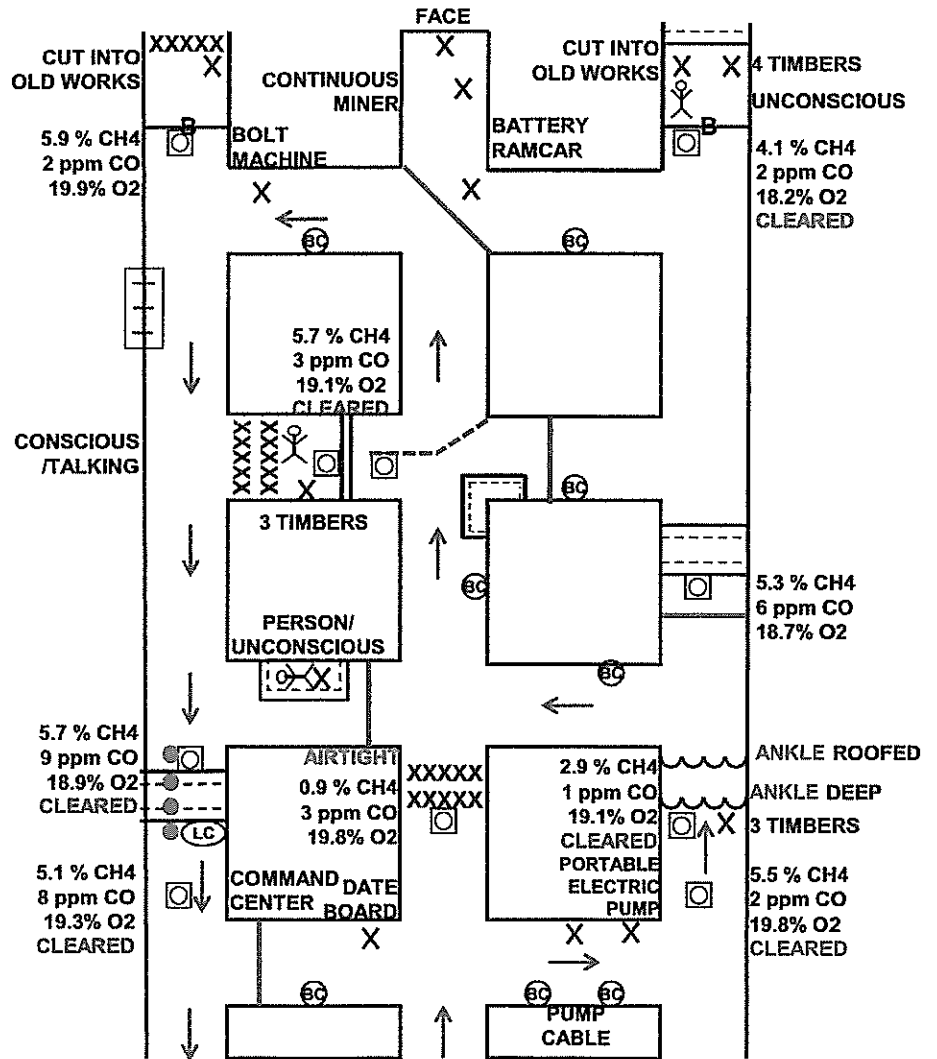
“The back-up team has just informed your Briefing Officer that the caved area in # 2 has been working is now Airtight. Also, other mine rescue teams have completely explored the old mine and report no miners found but the mine is free of low oxygen and explosives mixtures.”



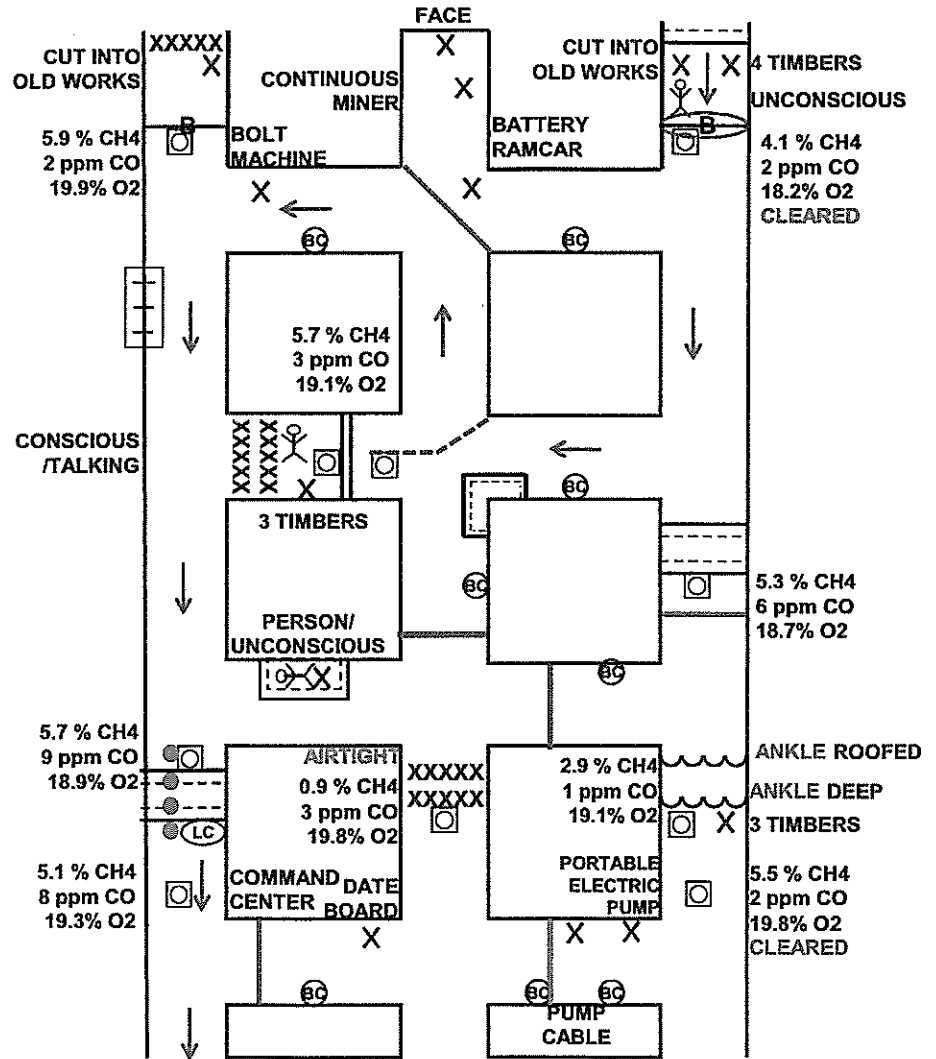
VENT 3 (Alternate)



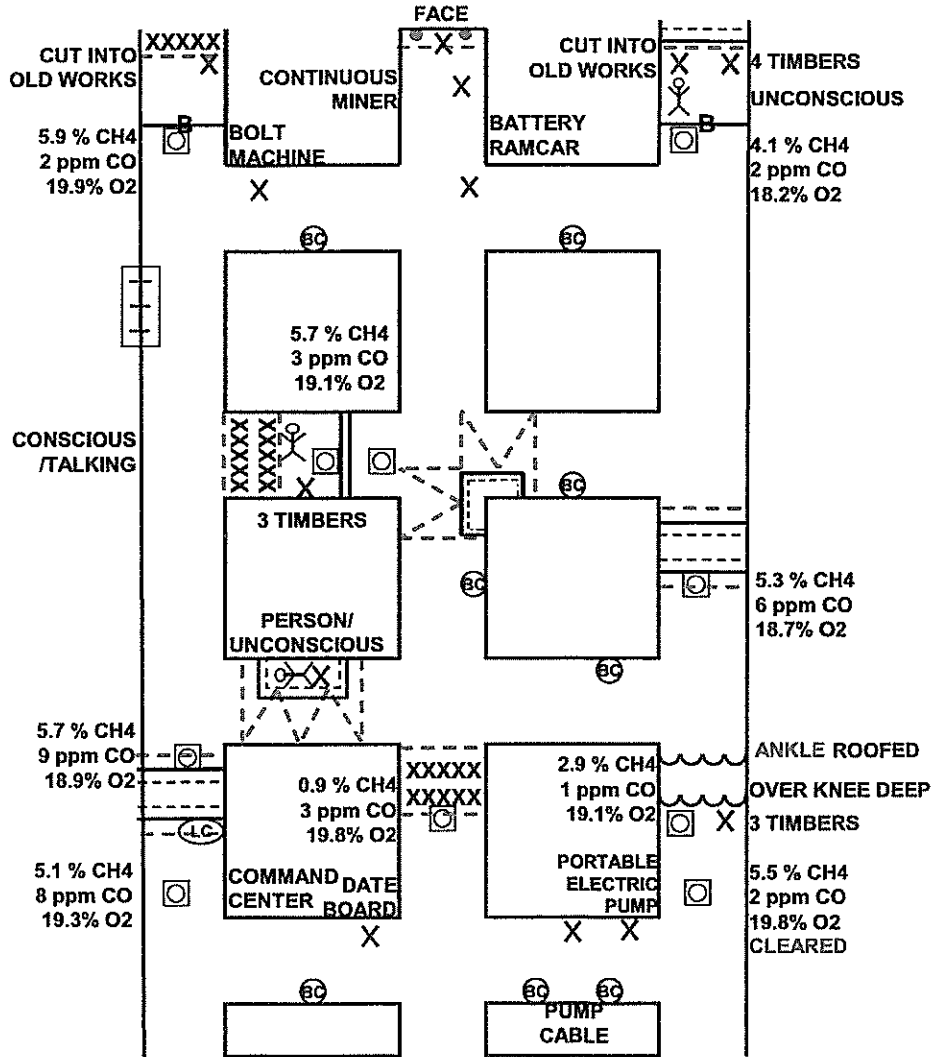
VENT 3 (Alternate)




VENT 3 (Alternate)





ROOF TESTS

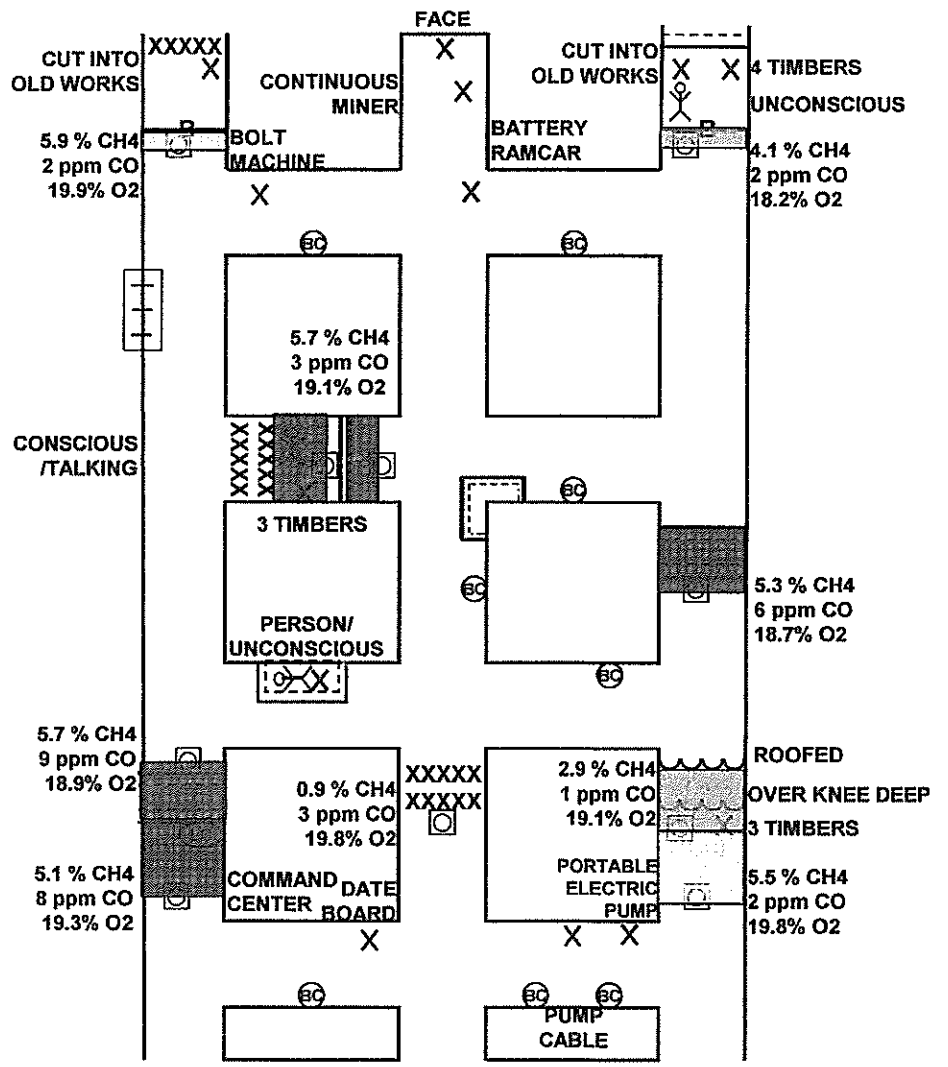


EXTENT OF GASSES

Explosive/Irrespirable 

Explosive 

Irrespirable 



DATES & INITIALS

