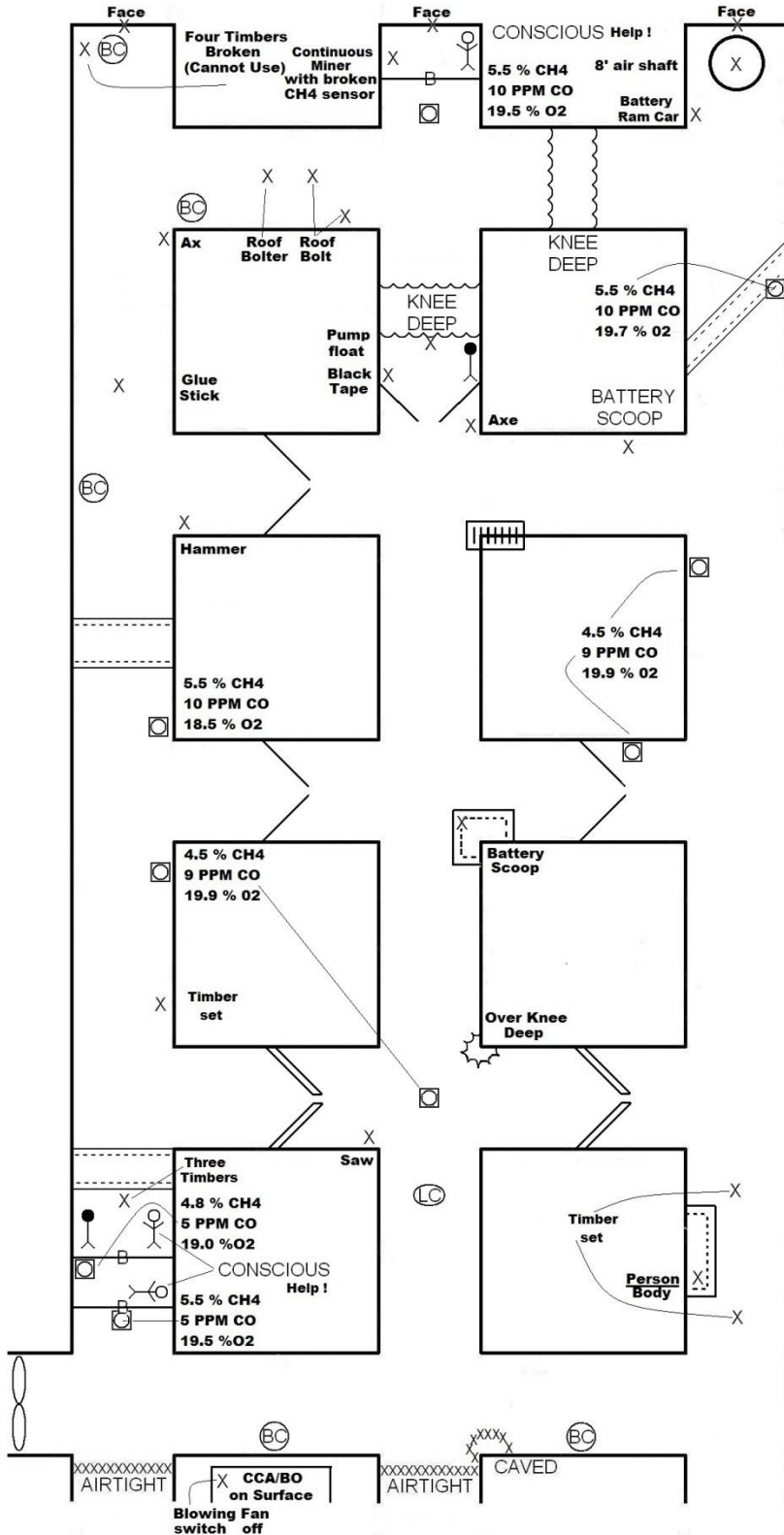


2016 Post 5 & West Virginia State Mine Rescue Contest Day 1



Problem Briefing

2016 Post 5 Day 1



2016 Post 5 & West Virginia State Mine Rescue Contest Day 1 Statement

You are located in the first crosscut of WVS # 1 mine. This mine just reopened after several years of being idle due to bad roof and high methane liberations. Thanks for answering our call for help.

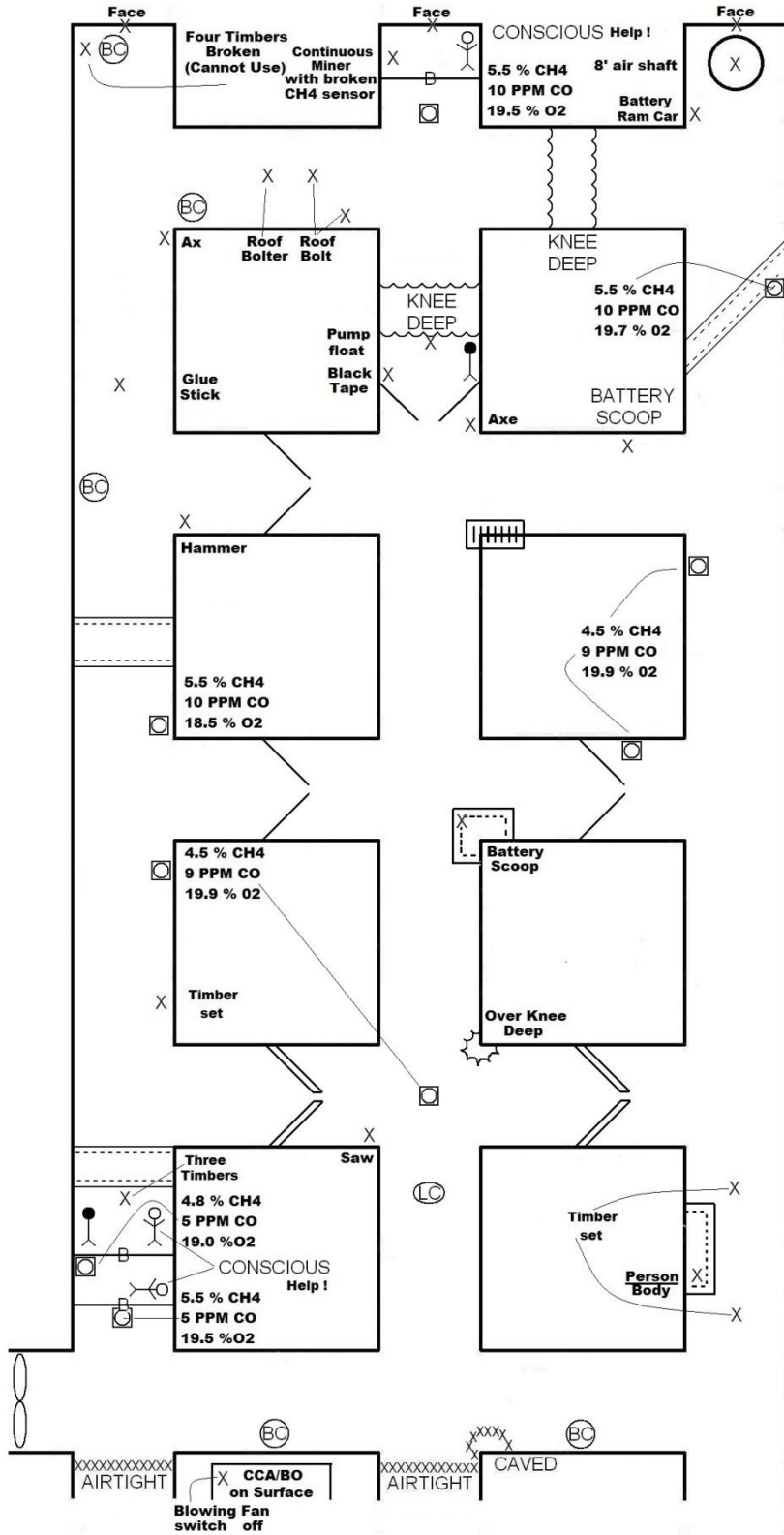
The RP reported over an hour ago that the blowing fan had stopped suddenly and that he called underground and did not get a response. He said that six miners was sent to the unit early this morning to prepare for day shift coal production. The RP also reported high concentrations of methane in the no.1 entry after the fan stopped and a decision was made by management to call for professional help.

The fan has been checked by electricians and has been deemed safe for use if needed. We do have an airshaft in the no.3 entry that can be use for ventilation. The power inby the fresh air base has been locked out and is being guarded. A trained mine rescue team is here to back you up and the mine maps that you will receive once the clock is started are up to date. We have had constant trouble with our methane monitor on the continuous miner giving false readings. We believe this may have contributed to our emergency situation here today.

Please find the six missing miners and bring survivors to the fresh air base.

Be careful and explore with safety.

2016 Post 5 Day 1



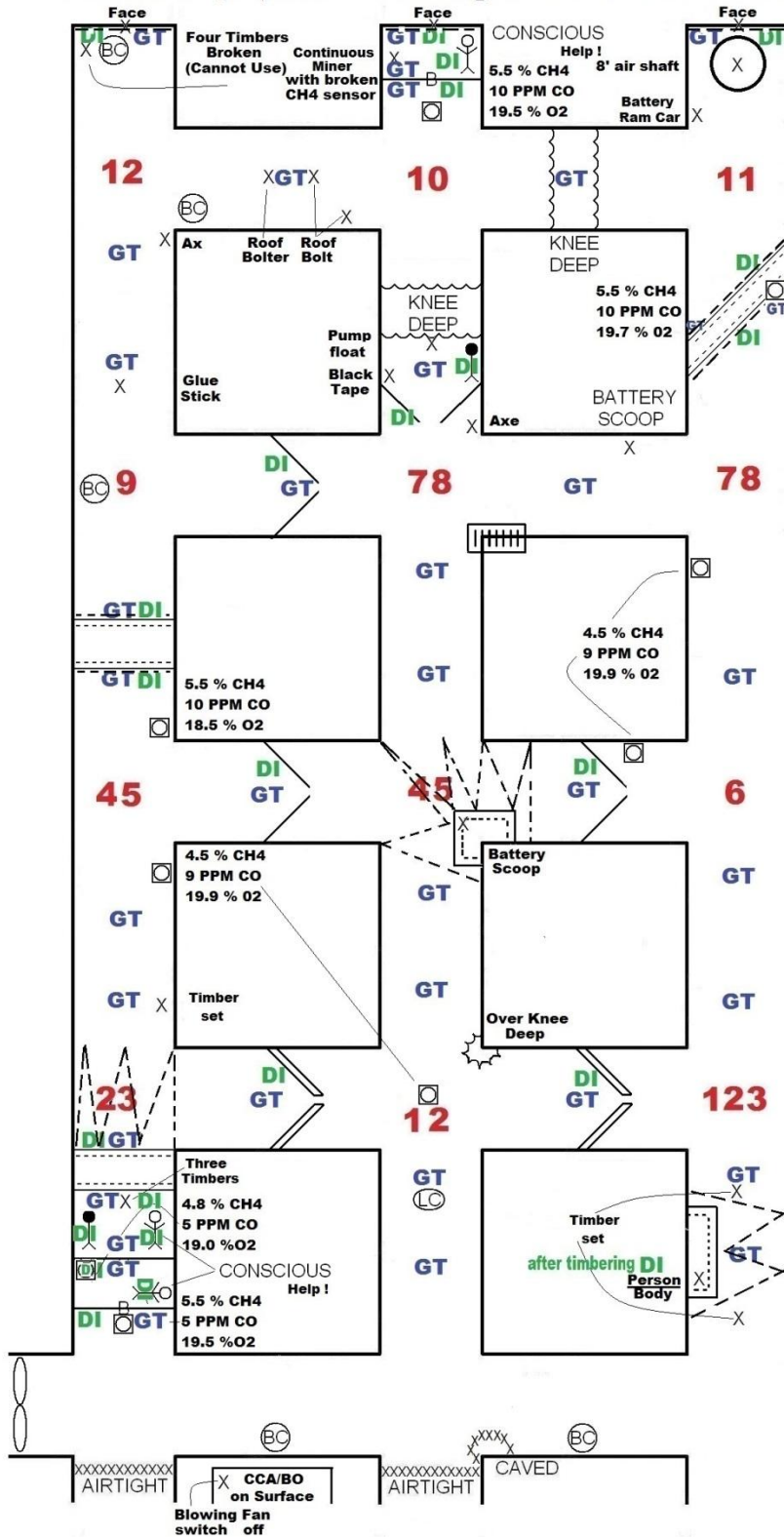
2016 Post 5 Day 1

Problem

(Written Instructions)

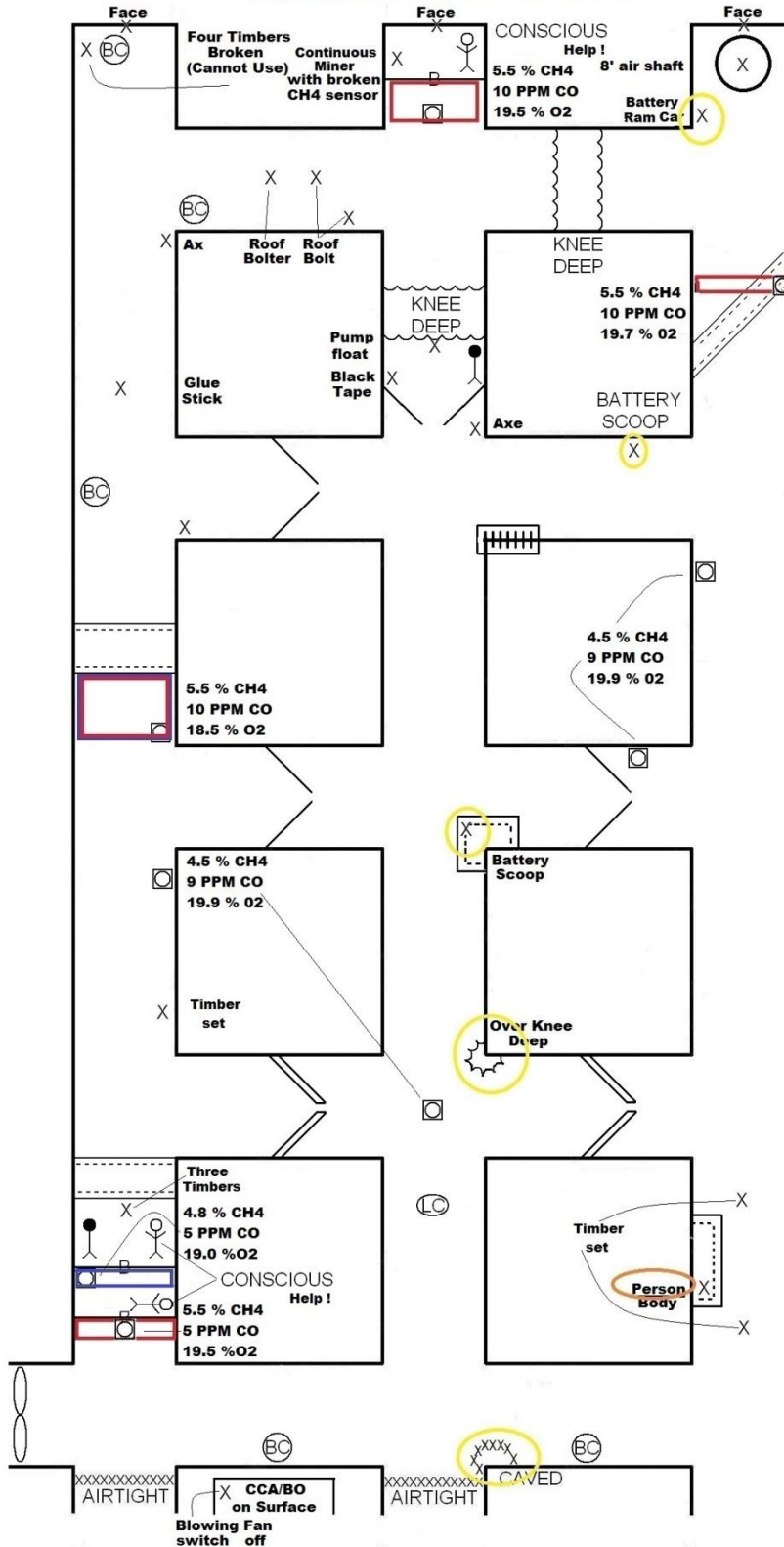
- **EXPLORE THE ENTIRE MINE THAT CAN BE SAFELY EXPLORED**
- **FAN SWITCH IS CONTROLLED BY THE COMMAND CENTER / BO**
- **THE BLOWING FAN CANNOT BE REVERSED**
- **THE BLOWING FAN CANNOT BE STOPPED OR STALLED AFTER STARTING**
- **YOU CANNOT CARRY MORE THAN 3 BRATTICE CLOTH WHILE ADVANCING OR RETREATING**
- **BO/CCA IS OUTSIDE AND ISOLATED**

Team stops, date & int. gas test & roof test



Gas Extents

Explosive Irrespirable Person



PATIENT STATEMENT IN FIRST
BARRICADE IN NO.1 ENTRY

**HELP! THERE IS AN
AIRTIGHT
BARRICADE
BEHIND ME.**

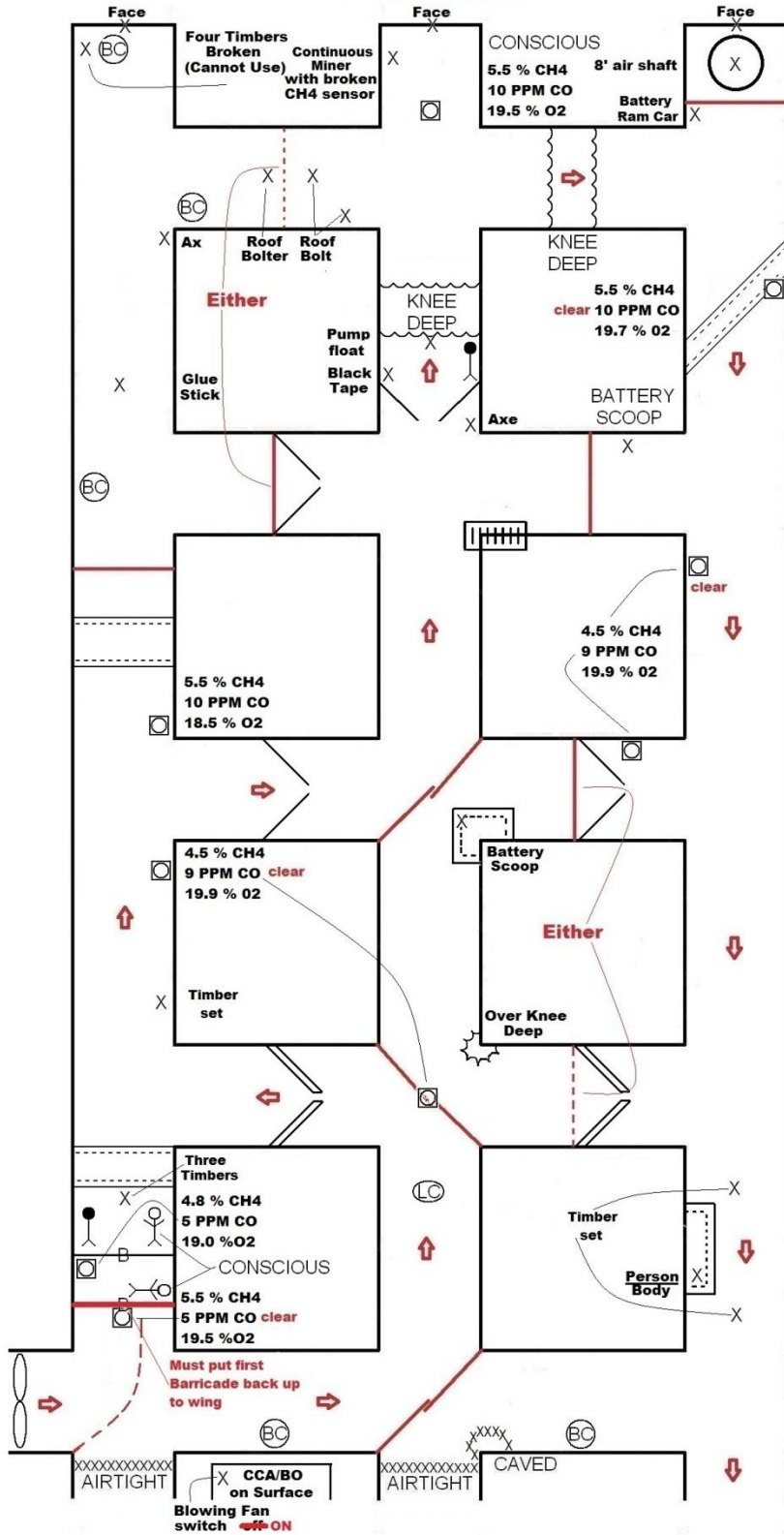
PATIENT STATEMENT
IN SECOND BARRICADE
JUST INBY FIRST BARRICADE

**HELP! GET ME OUT
OF HERE !**

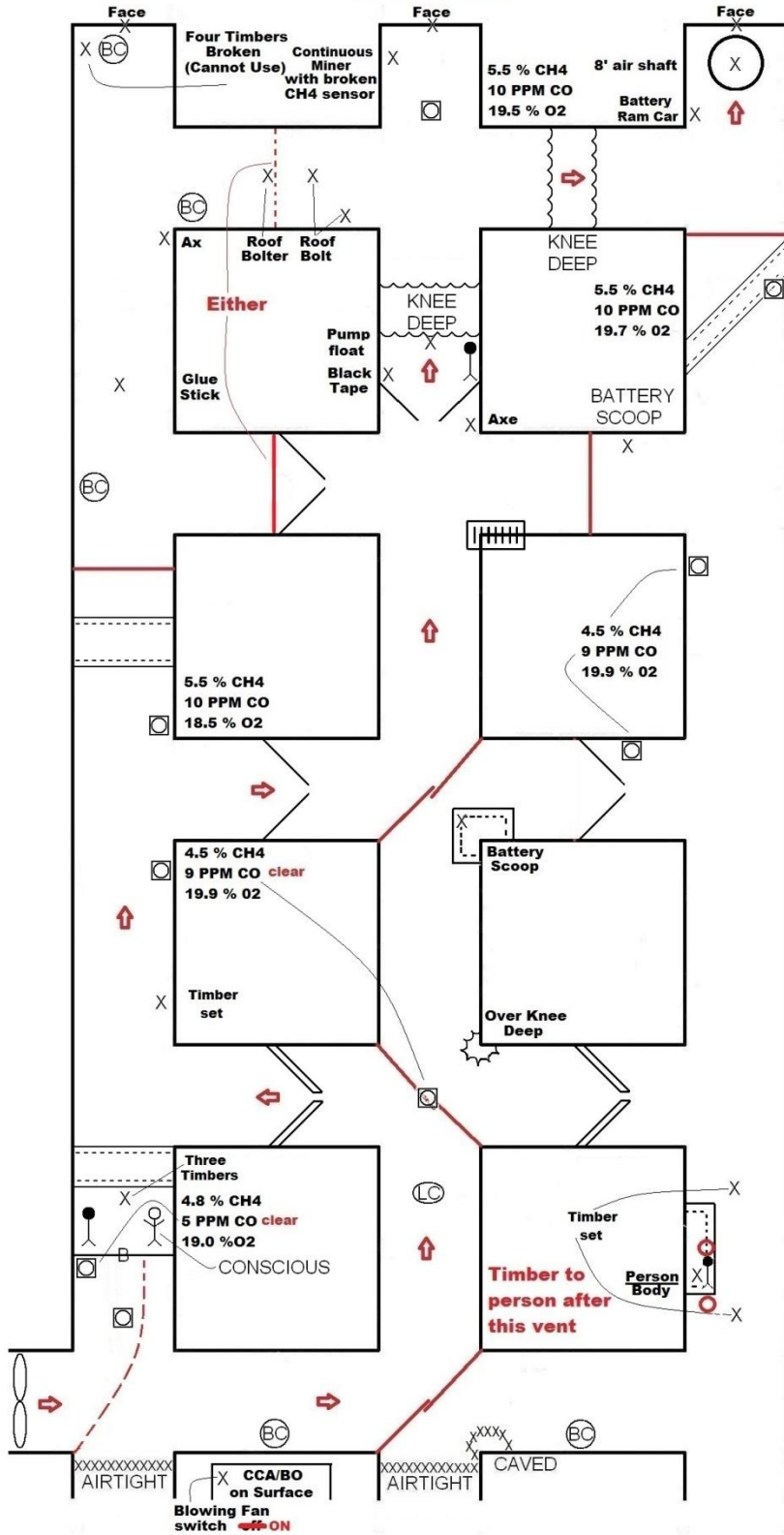
PATIENT STATEMENT IN
BARRICADE INBY LAST OPEN
CROSSCUT IN NO.2 ENTRY

**HELP! GET ME OUT
OF HERE!**

First Vent



2nd Vent



Keys to Problem

- **Team must rescue patient in first Barricade before entire team goes in by fresh air base**
- **Team must rescue patient in Barricade at team stop #10 before going to next team stop**
- **Team must ventilate to get patient in 2nd Barricade in no.1 entry before going to team stop # 12**
- **4 broken timbers in no.1 face area cannot be used for timbering**
- **Team must put first Barricade back up in no.1 entry to wing out explosive mixture (see vent 1 map) on first vent. Then team can take first barricade down to vent irrespirable 19.0 %O₂ (see second vent map) going to second barricade**
- **Team must not send low O₂ over person in unsafe roof in no.3 entry**
- **Team must use the three timbers in barricade to timber to person in unsafe roof before exploring team stop # 12**
- **Team must explore team stop #12 before stopping the clock**