

2014
INDIANA STATE
MINE RESCUE CONTEST



26TH ANNUAL CONTEST
JUNE 5TH 2014

2014 Indiana Mine Rescue

Thank your for assisting us with our emergency at the Vincennes No. 1 Mine. You are located at the fresh air base established by the previous exploring mine rescue team. At around 4 am this morning a 7 man crew entered the No. 3 Section to prep the unit and to load coal once the belts became available. From what we can tell they began loading coal around 6:00 am. At approximately 6:30 the dispatcher got a call from the unit stating that 2 miners where at the dinner hole and heard a rumbling sound and then they were knocked off the bench from the air rush. These two men did not wait around for the others on the crew and begin travels out the primary escapeway. They tried to call the No. 3 section once they got to the first belt drive location and could not get an answer on the phone from the No. 3 section. These two men have already made it to the surface and are getting interviewed now. The No. 3 section had mined into an air shaft yesterday. The shaft is not available to be used for ventilation at this time, but we have a crew working on it as we speak.

This mine has experienced poor roof conditions and high concentrations of methane gas and troubles with water accumulation in the past. It is mining adjacent to the abandoned and sealed Vincennes No.2 mine. The mine is being ventilated with blowing fan that can be shut off to reverse and be used as an exhausting fan, but not stalled out. We have power to the pump switch located at the fresh air base. The mine maps you will receive are not up to date. That is all the information we have available at this time and you have 90 minutes to complete the problem.

Written Instructions

- Bring all survivors to the fresh air base
- Explore all areas of the mine that can be done safely
- You must ask the superintendent for permission to change the fan from blowing to exhaust or exhaust to blowing
- You can not carry more than 2 sets of building materials at one time
- The fan must remain on at all times other than the brief time it takes to shut off to reverse if needed
- You have 90 minutes to complete the problem.

Judges Information

- Please be sure the placard in the unsafe is a person before you begin the problem. All placards and barricade in No. 1 need to be turned over at the start of the problem
- Once the team puts pump in the water and has the power turned on wait 5 second for the water to be pumped. Turn placard over to show ankle deep water. Once it pumped down it will stay down.
- Once water is pumped down tell the team the air shaft can now be used if needed
- Once the team get to RA they will get a verbal response from inside the RA. They will have to go in to get him and put a SCSR or breathing app prior to bringing him out. Once captain takes gas test after opening the outer door, he and 1 other can go into the RA. Once in the RA they will take another GT and find low O2 they will purge the airlock (5 seconds), then retest. The air in the airlock will be respirable. He will open the inner door and have to take gas test in the RA as well it will be respirable.
- Once the team reaches the airshaft they have means to ventilate to get the person out from behind the barricade in No. 3 entry
- For the first vent the team must move the battery mine phone, install the temp controls and ask superintendent for permission to change the fan to exhausting
- The patient behind the barricade in No. 3 entry will give them a verbal response, but once the get in to him they will find the patient un-conscious
- 2nd vent the team will get the triangle 5% of Ch4 that they couldn't get in the first vent. There are two options to do so. First vent and remove the diagonal or build as shown in booklet.
- For the third vent to get the barricade in No.1 cleared they will have to switch the fan back to blowing. They will get a verbal response, but they will find a body when they get in there
- Do not let the team move the pump any further than the water roofed.
- Map judges please go and walk the fields with you "KEY" maps to make sure placards match you maps.

RA Patient Statement

Help get me out of here, I am gonna be late for my fishing trip

Statement for Barricade 3

- Help get me out of here. I'm supposed to go fishing with my buddy.

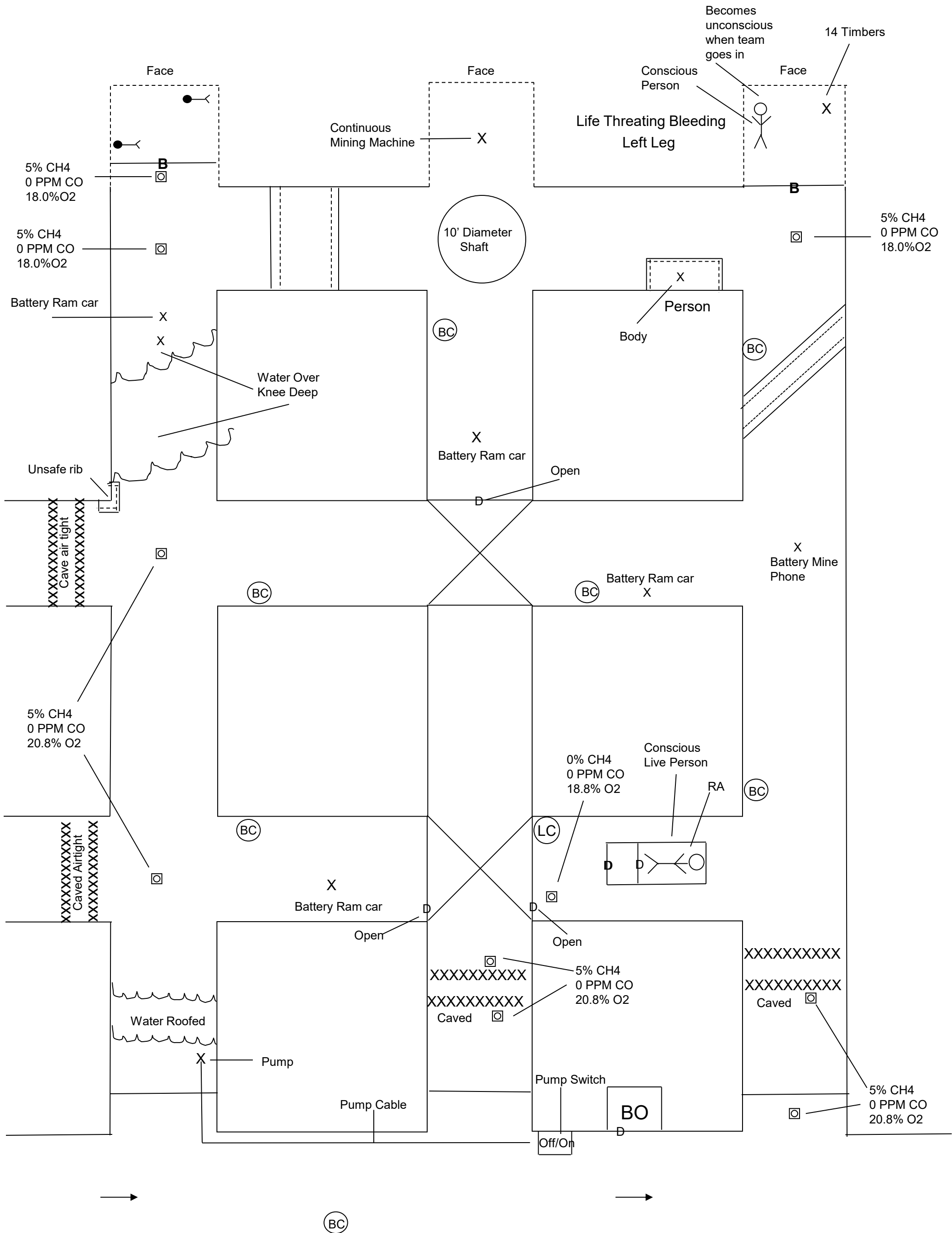
DO NOT READ THIS PORTION

You will become unconscious once the team begins to air lock into get you. Lay with head facing the right (looking inby)

Statement for barricade 1

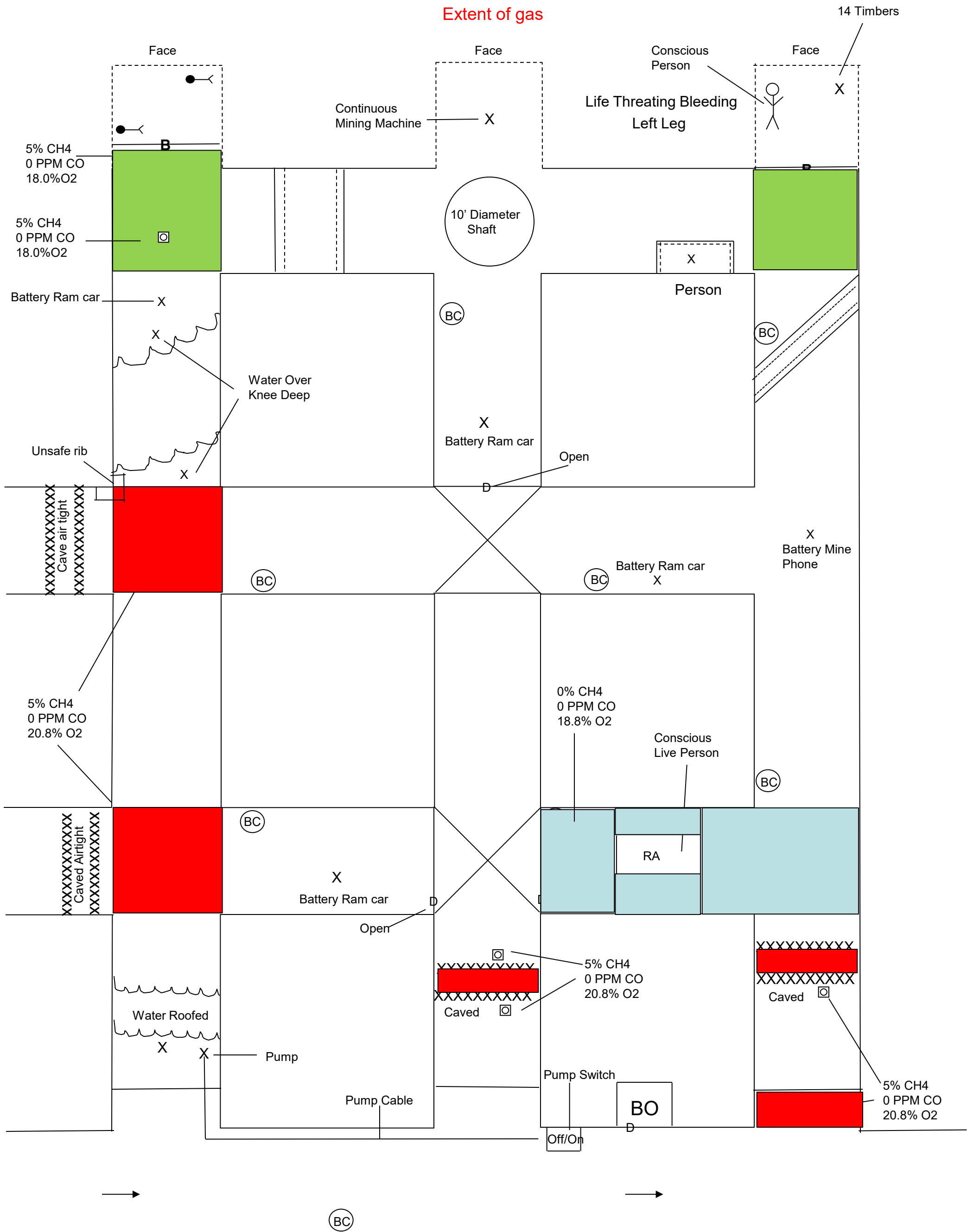
- Help help help get me out of here, Me and my buddy are in here. Its getting hard to breathe.

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TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

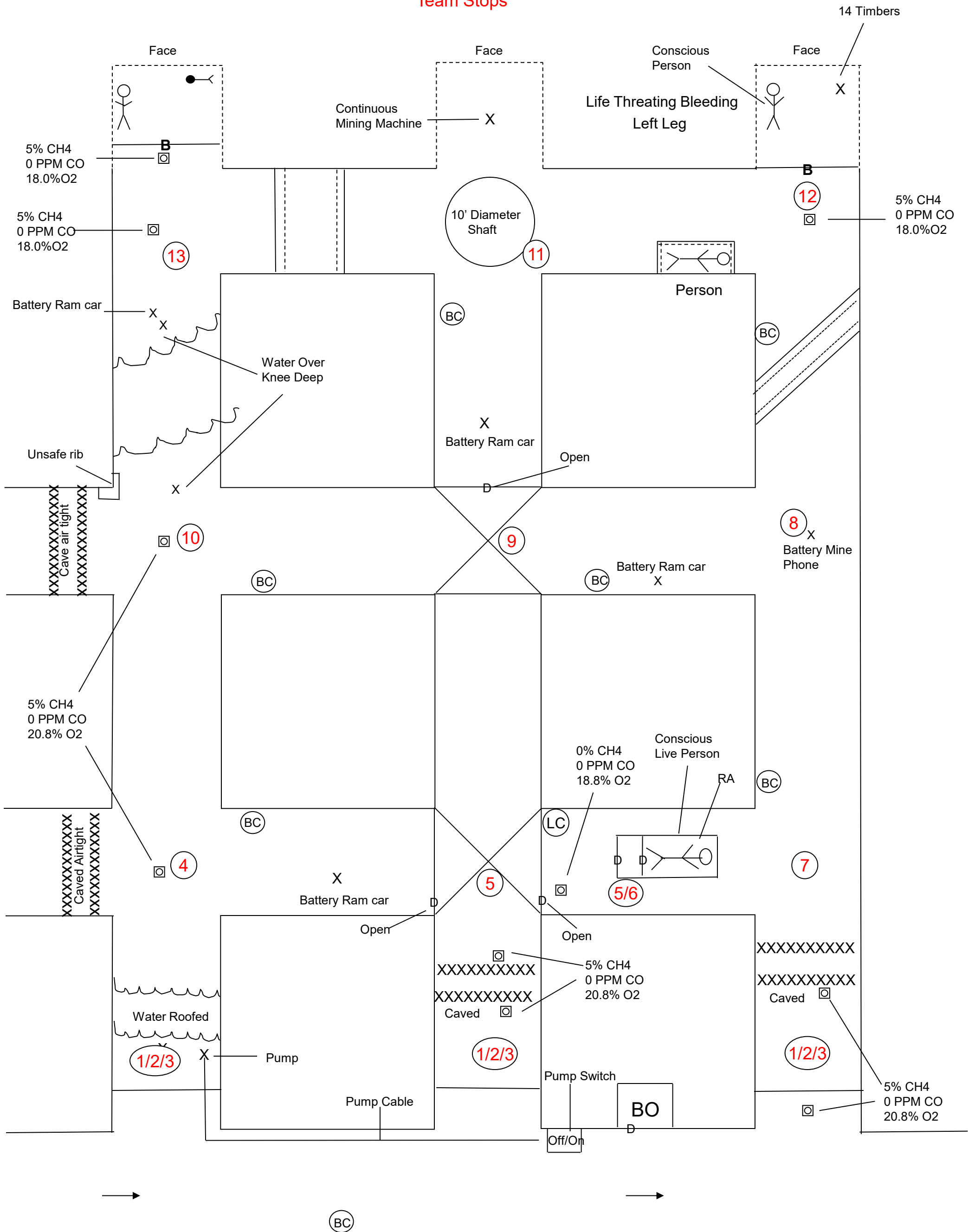
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TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

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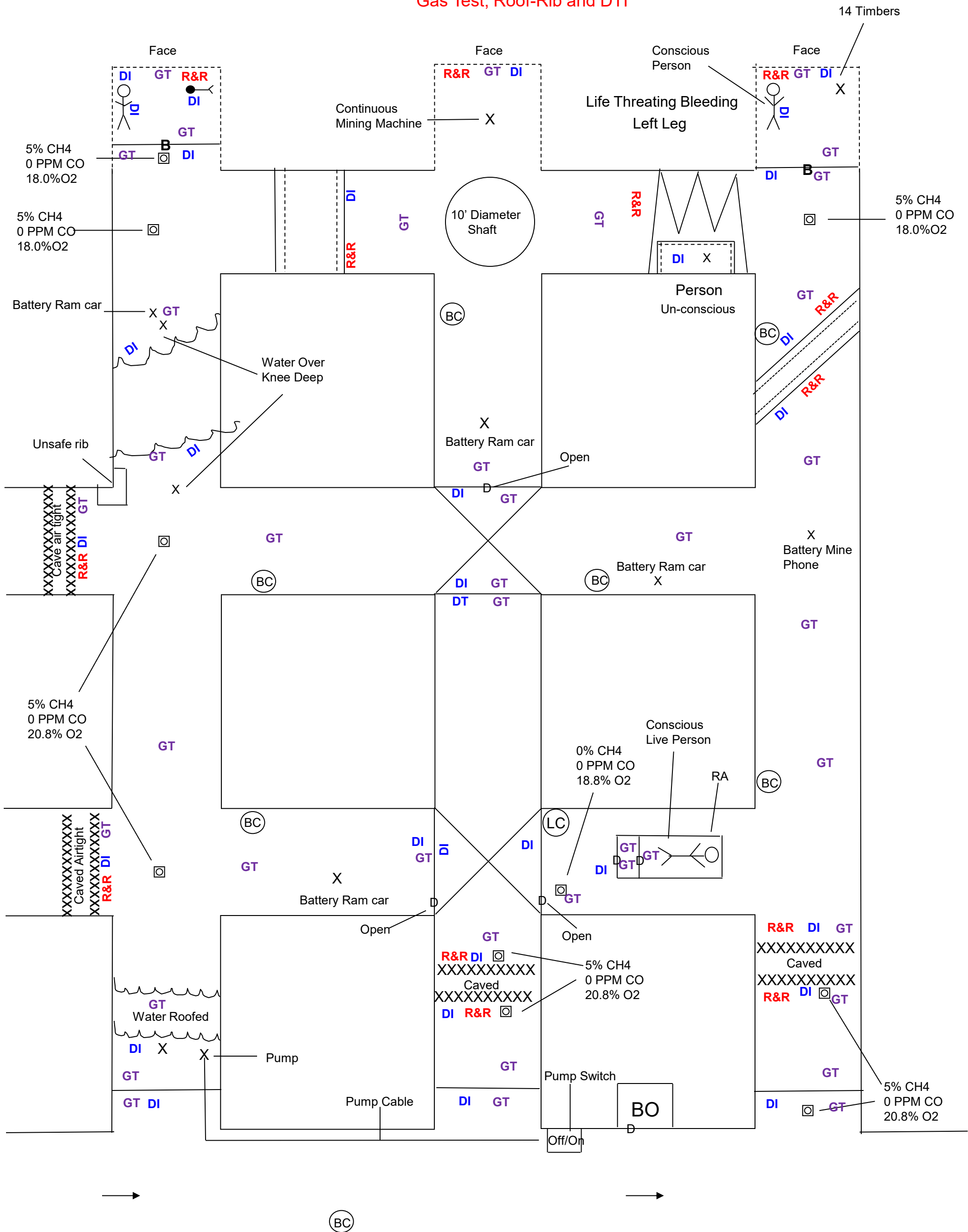
Team Stops



TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

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Gas Test, Roof-Rib and DTI

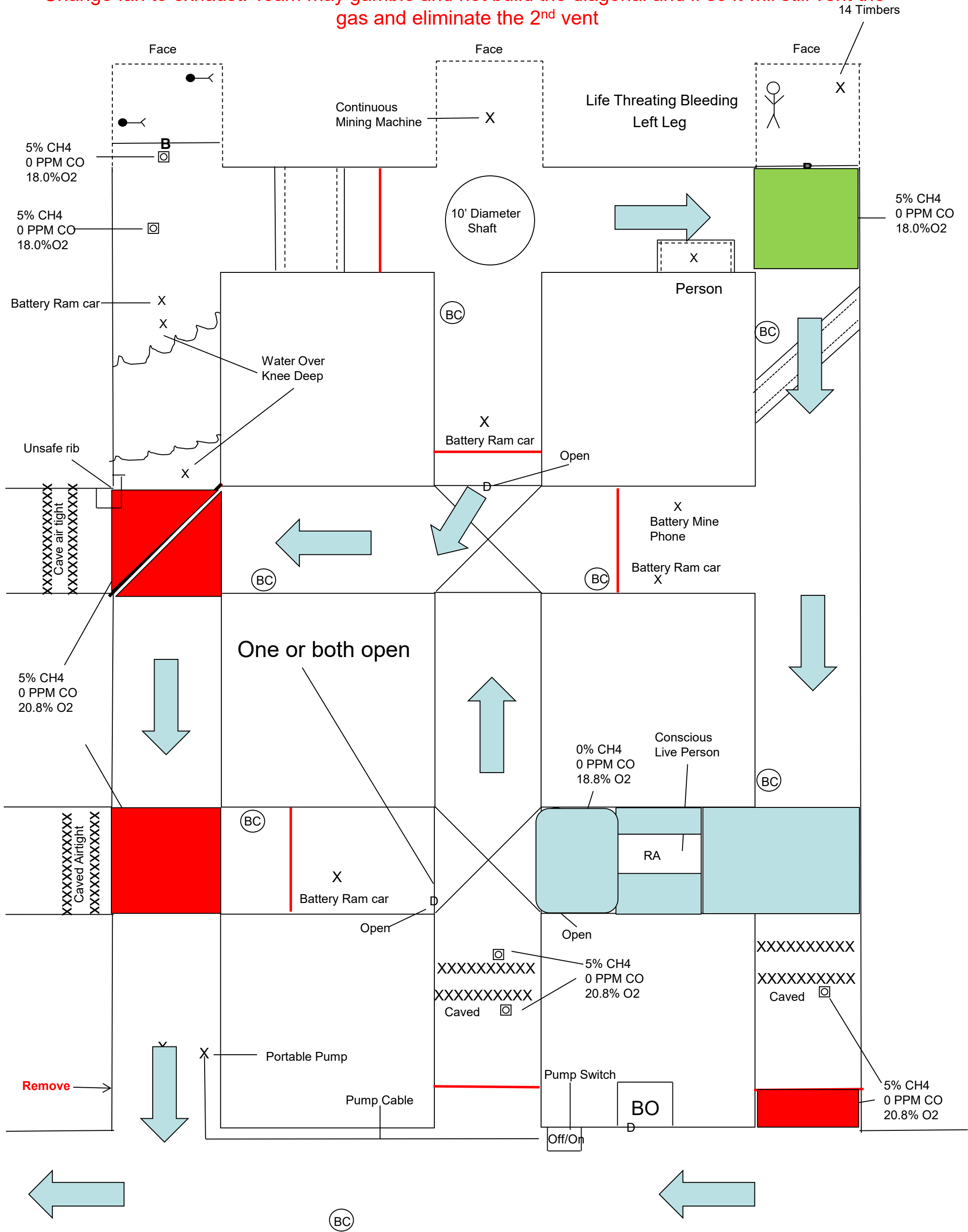


TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

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1st Vent

Change fan to exhaust. Team may gamble and not build the diagonal and if so it will still vent the gas and eliminate the 2nd vent

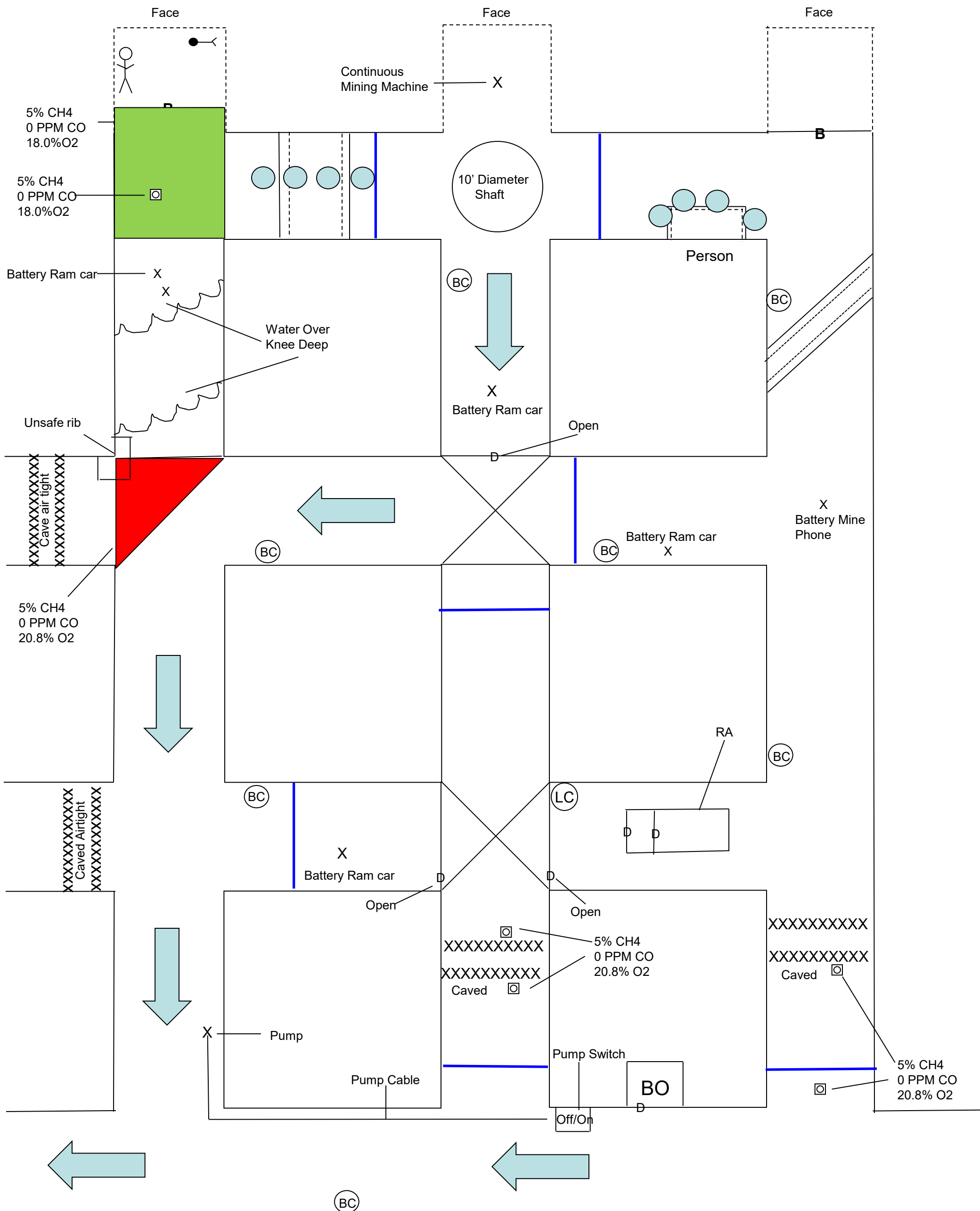


TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

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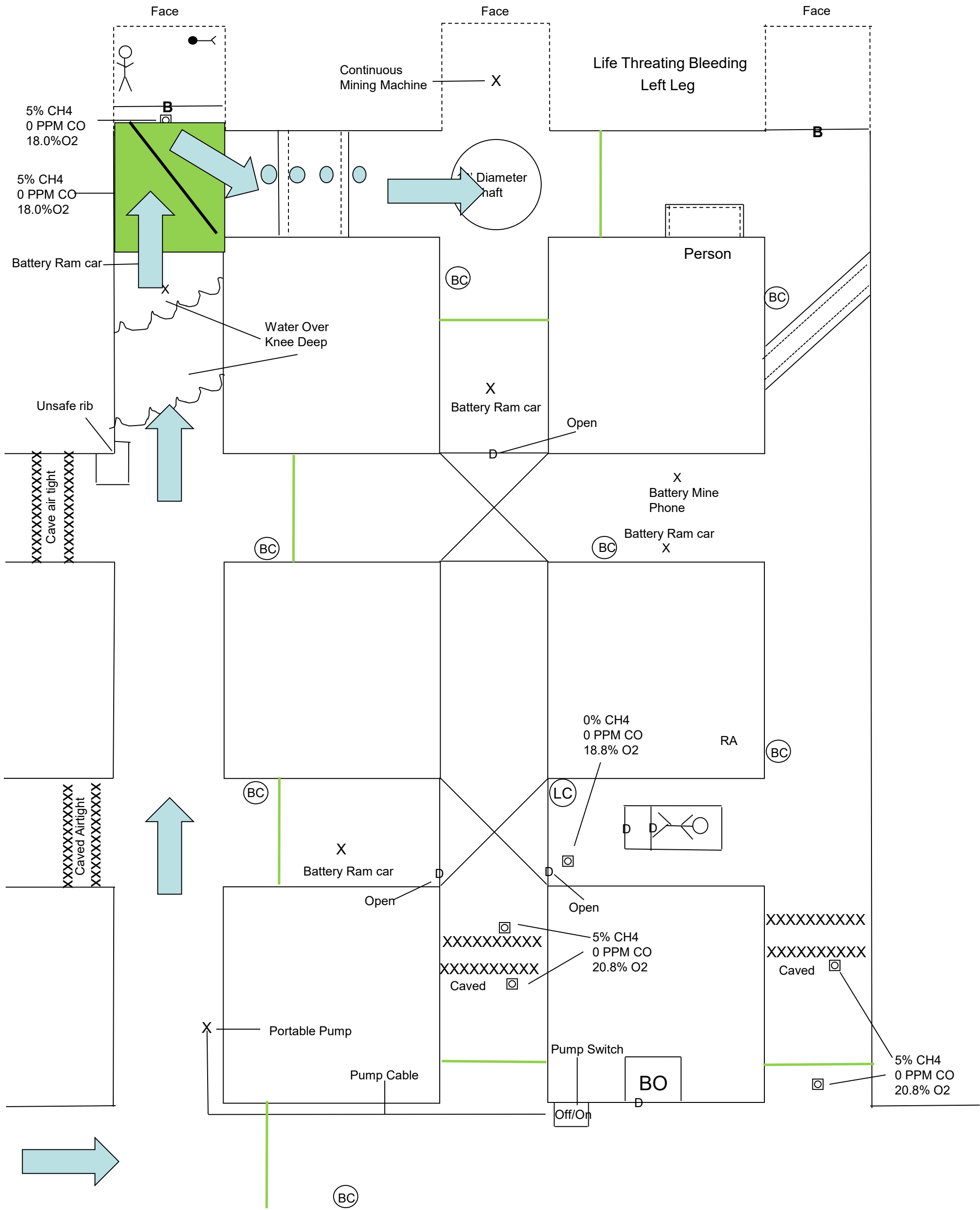
2nd Vent

Leave fan on exhaust Team may also use vent 1 but remove diagonal



TEAM NO. _____
FIELD NO. _____
SCALE 1" = 10'

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3rd Vent
Change fan to blowing



TEAM NO. _____
 FIELD NO. _____
 SCALE 1" = 10'

**THANK EACH AND EVERY
ONE OF YOU FOR YOUR
PARTICIPATION AND
COMMITMENT TO MINE
RESCUE**