

2015 KCA Regional Mine Rescue Skills

April, 9th 2015



Problem Statement

You are located on the surface of the KCA Mine. This is a new slope mine that is developing the main entries to turn left and right in the near future.

The 3rd shift foreman sent a four man crew up to the section to roof bolt and do normal service work at 12:01am this morning.

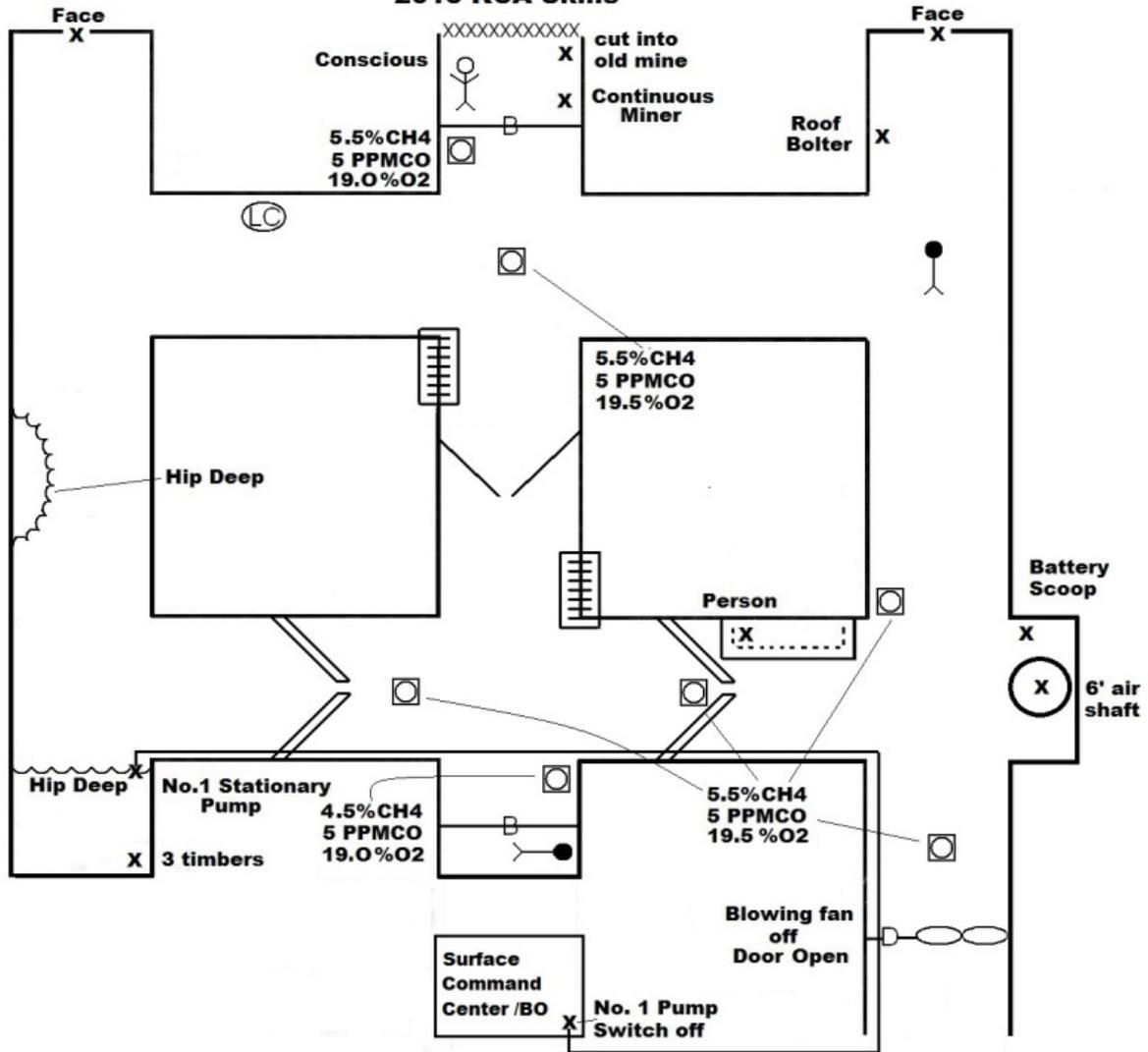
An explosion was heard about 2 hours ago and we tried to enter the slope but found high concentrations of methane just inby the fan. The tracking system shows all 4 men are still on the section. Phone communication has been unsuccessful.

We have a blowing fan in the slope that is being use for ventilation. The explosion door on the fan was blown open and can be closed by your team if needed. The fan is off at this time, but can be turned on/off by the superintendent if needed. We also have just completed an air shaft just inby the fan that can be used for ventilation.

There is a trained mine rescue team here to back you up and the power has been locked out and guarded. The maps were up to date as of yesterday.

Please be careful and find our miners.

2015 KCA Skills



2015 KCA Regional Skills Contest

Written Instructions

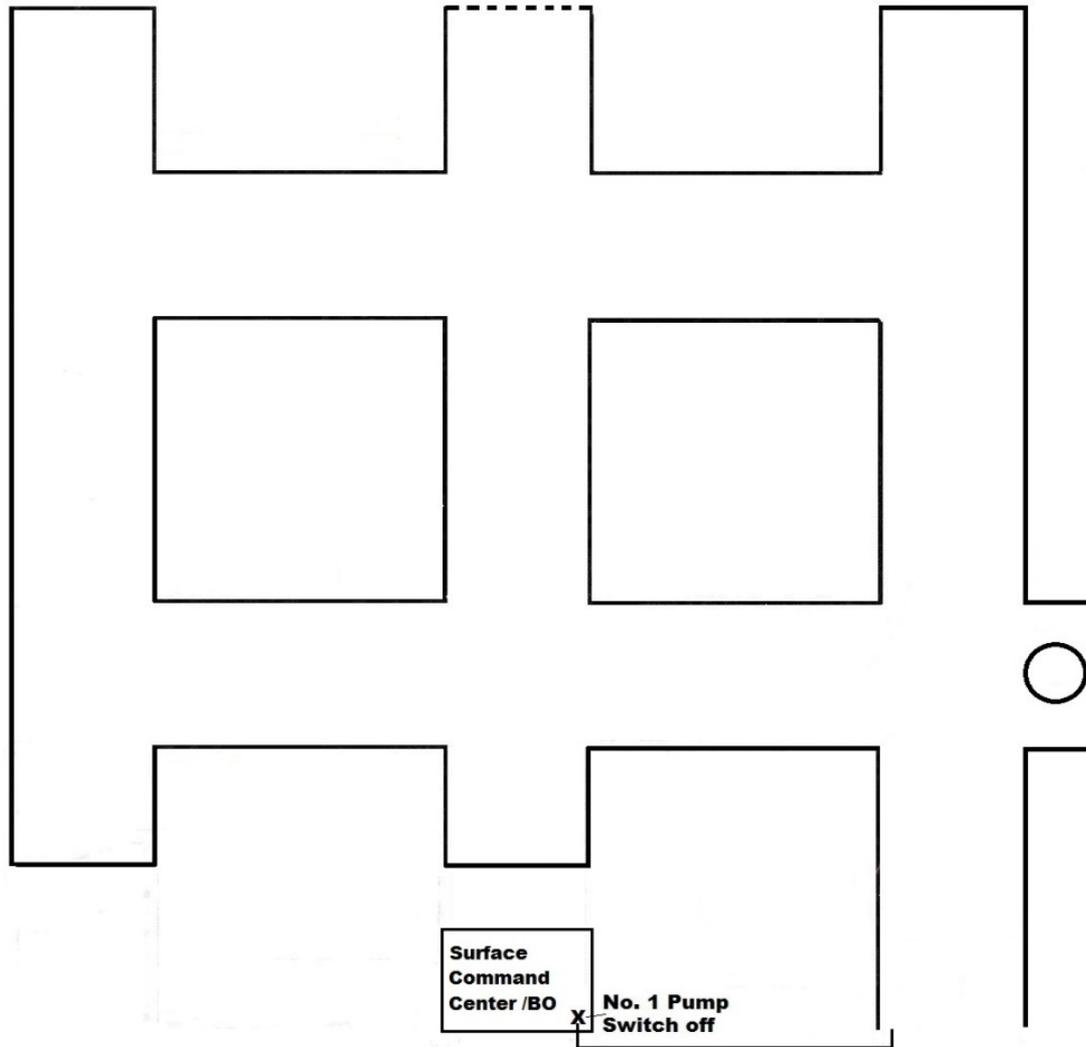
ACCOUNT FOR ALL MISSING MINERS

THE BLOWING FAN CAN BE REVERSED

**THE BRIEFING OFFICER/COMMAND CENTER HAS
BEEN ISOLATED AND MUST REMAIN IN A
RESPIRABLE ATMOSPHERE**

Patient Statement behind Barricade
inby last open crosscut

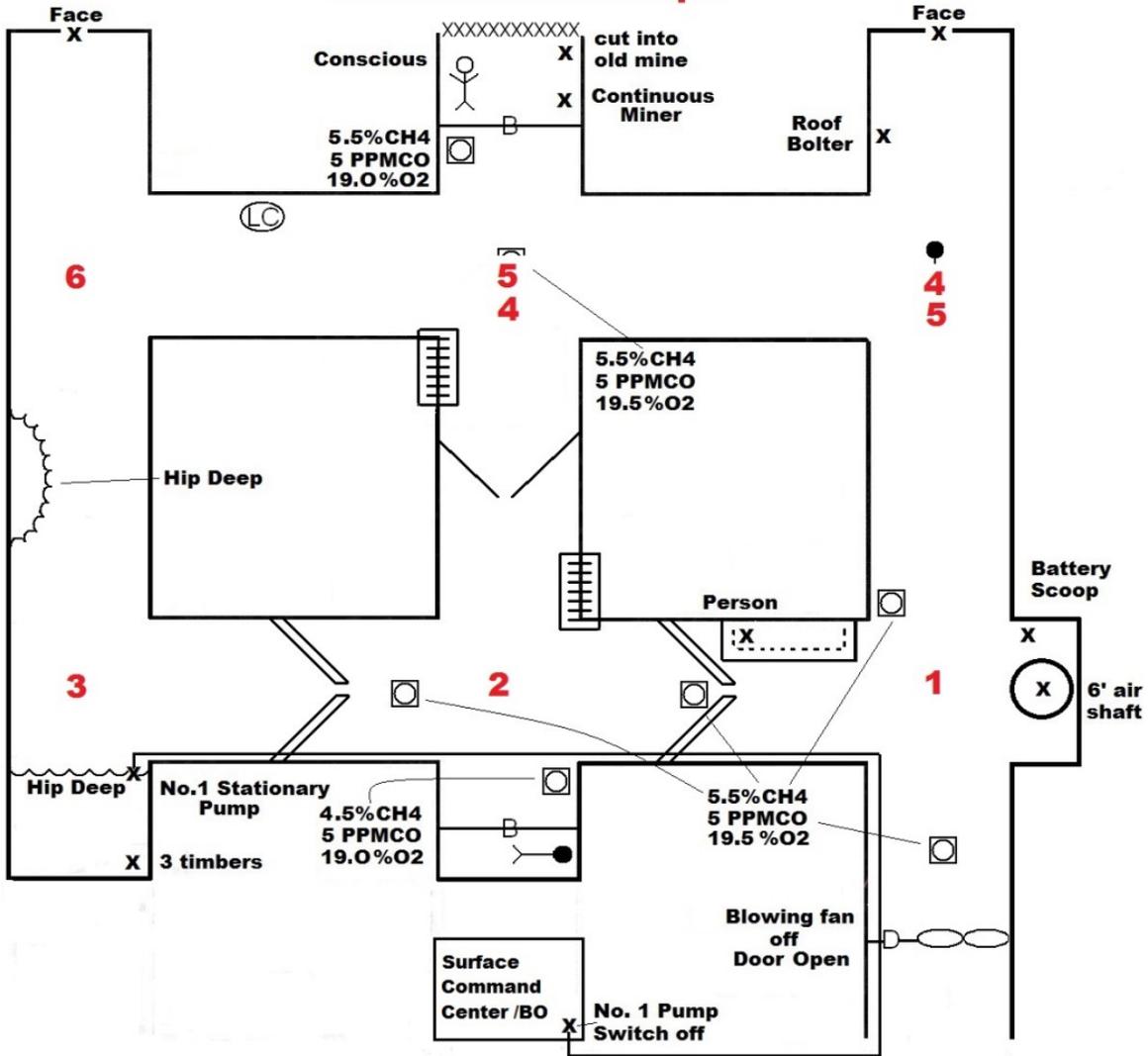
Help! Get me out !

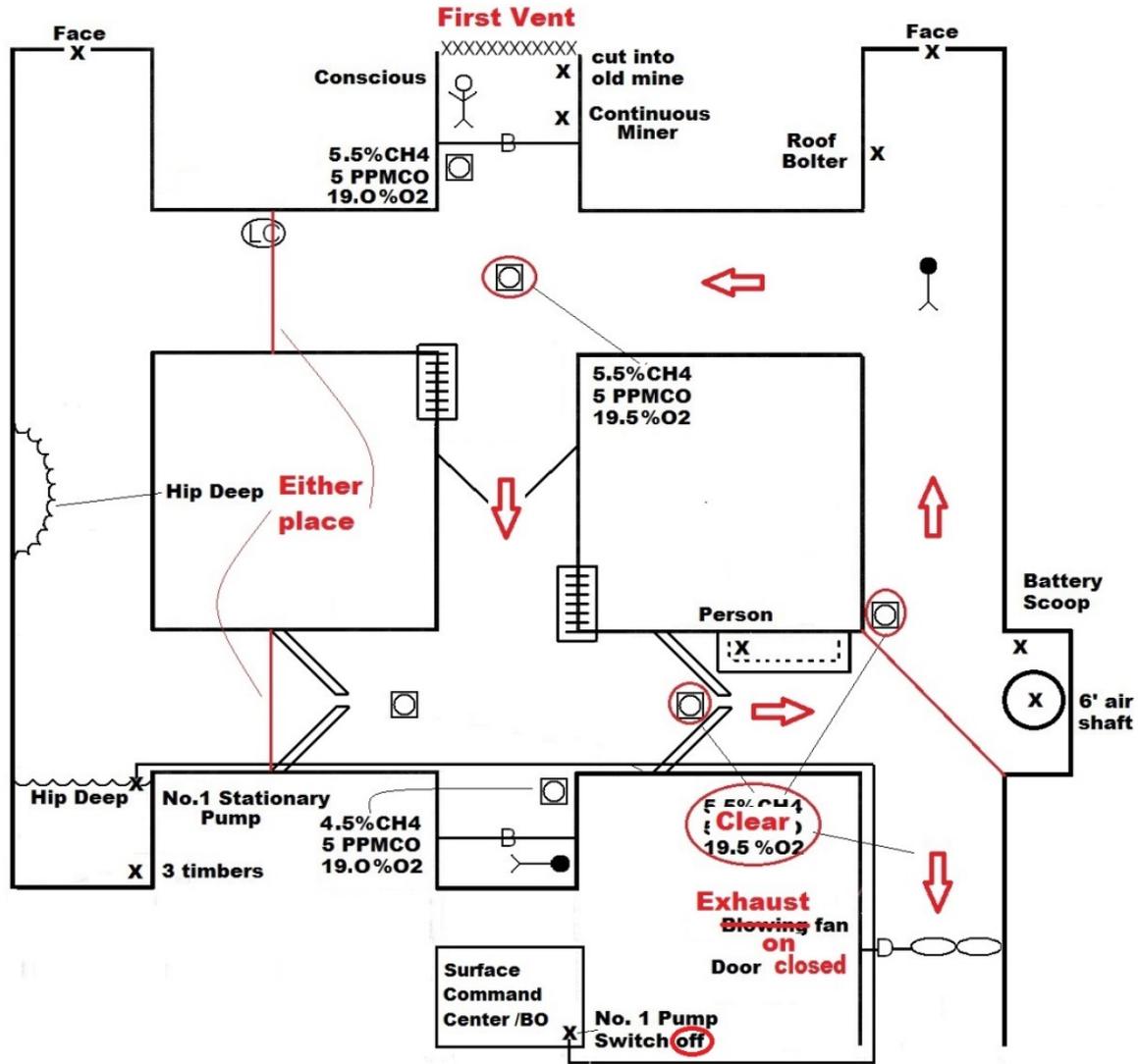


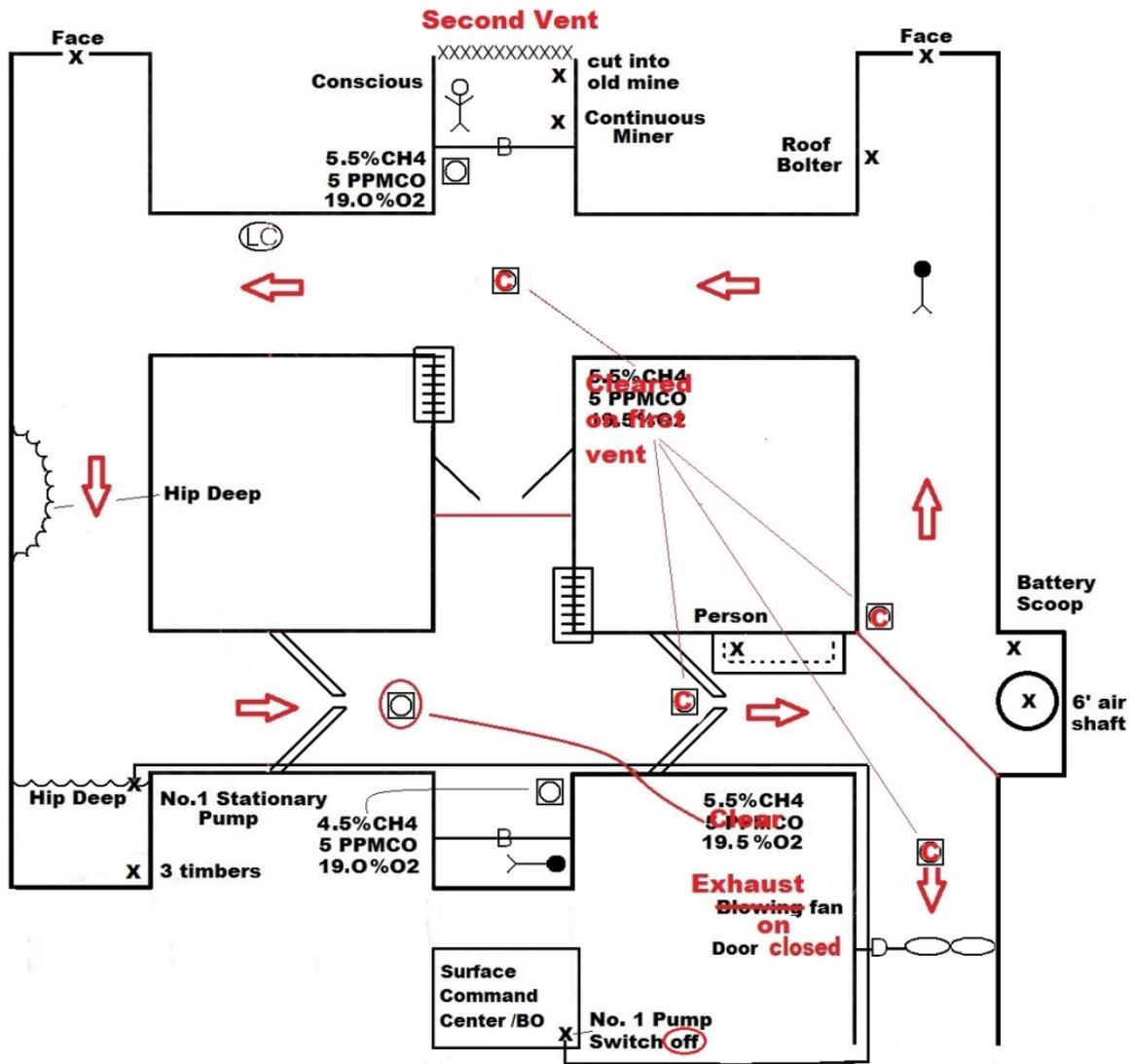
**Surface
Command
Center /BO**

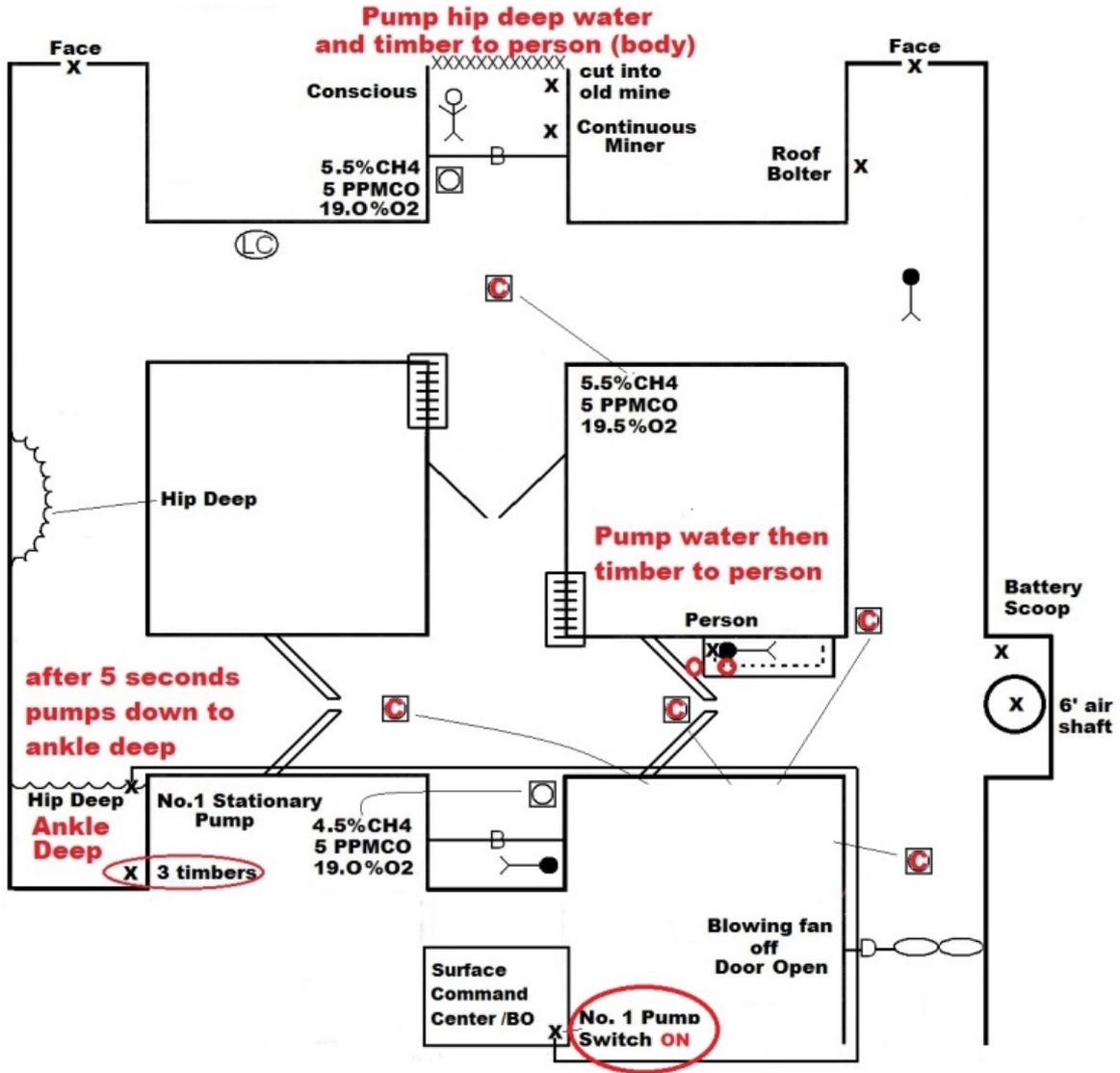
**No. 1 Pump
Switch off**

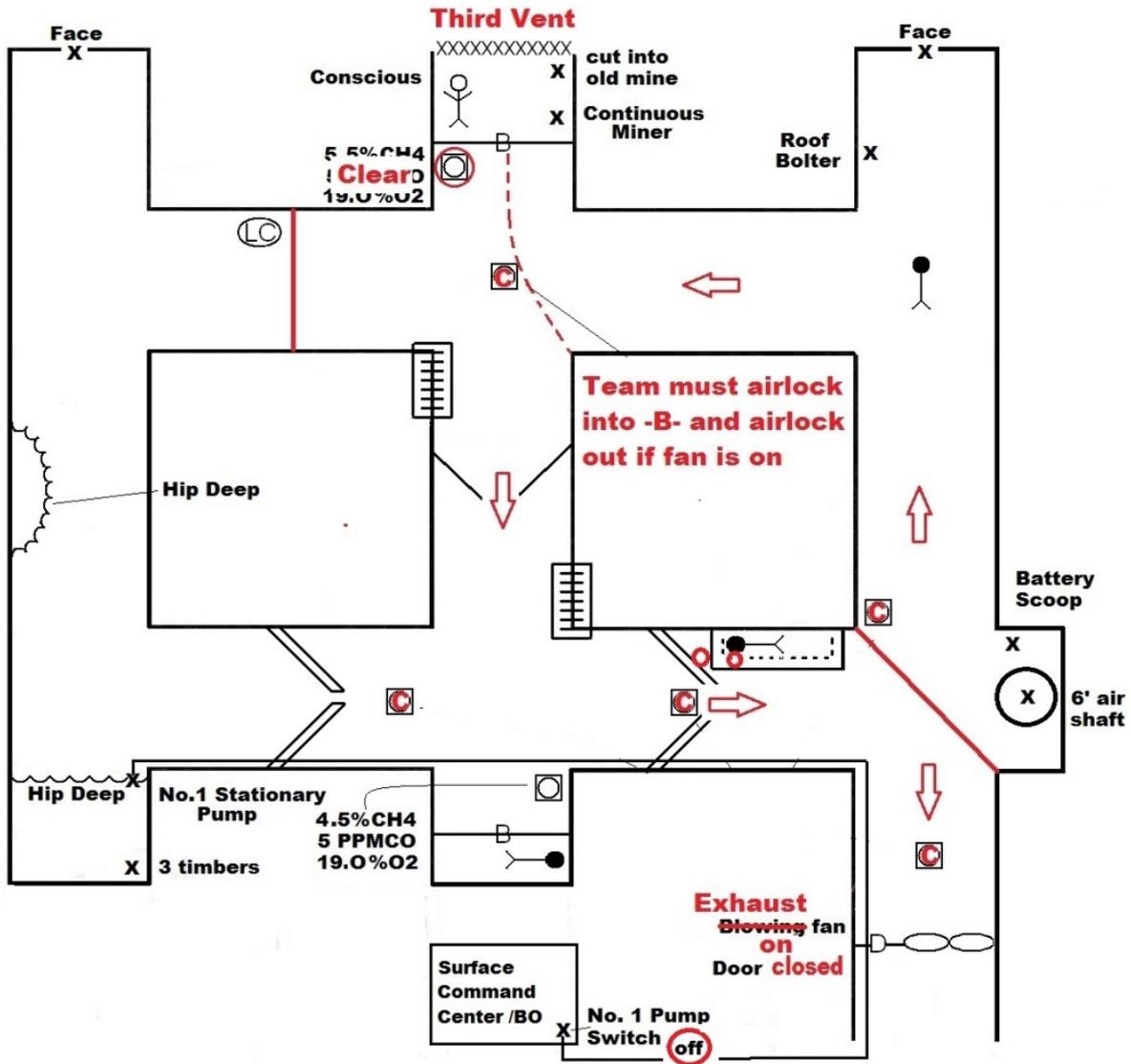
Possible Team Stops

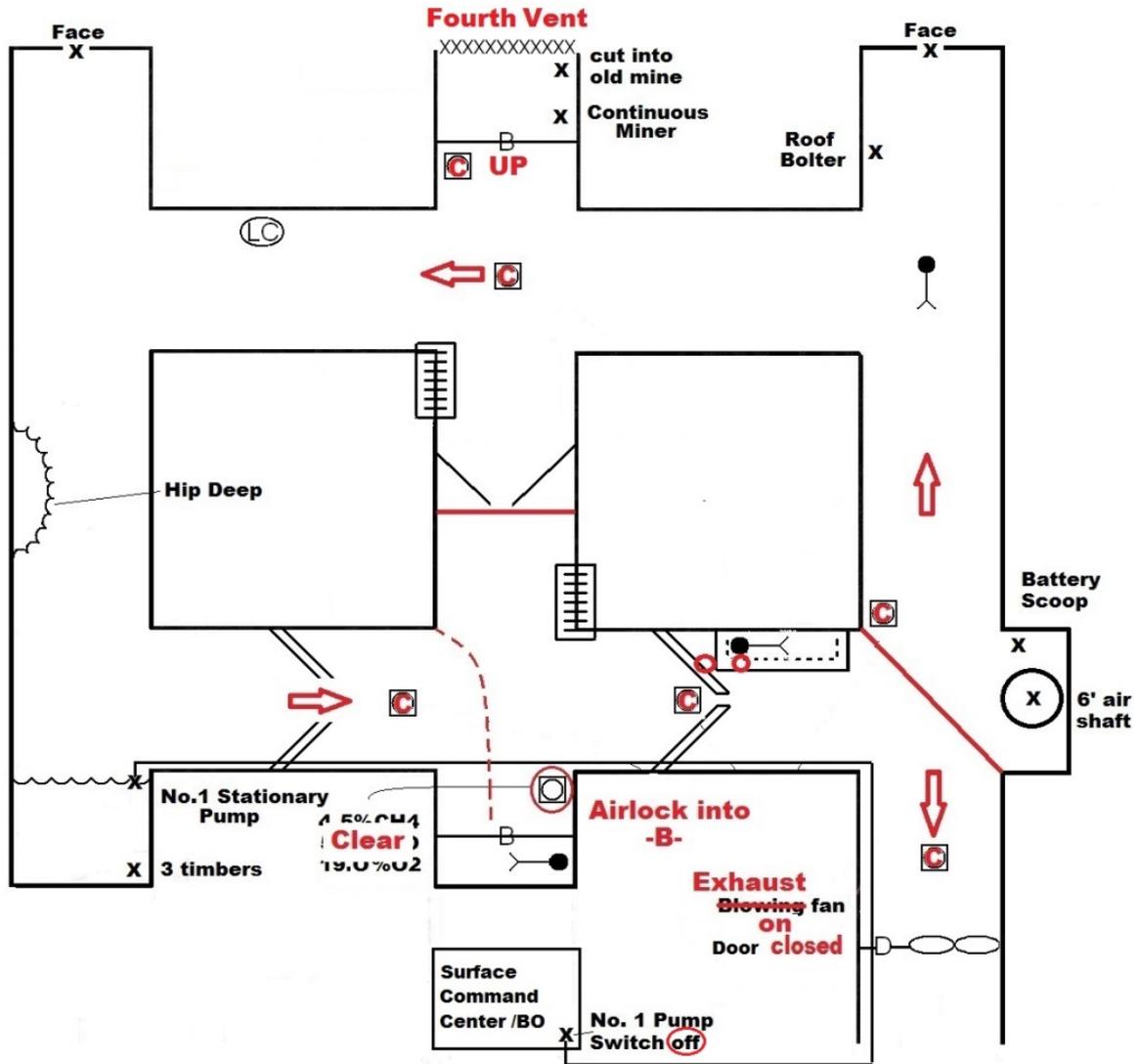












Keys to Problem

- **Team must enter the mine in the # 3 entry (Slope)**
- **The blowing / exhaust fan is in by the FAB, so air will migrate in the mines when fan is on. Regardless if door is open at fan**
- **Team must not let explosive mixtures flow over batteries, caved area and water hip deep**
- **Team must not let irrespirable atmospheres flow over person in unsafe roof or over water hip deep**
- **To ventilate correctly, team must remove explosive mixtures before ventilating the barricade to rescue patient**
- **Team must timber to person after pumping water**