

Welcome to the 50<sup>th</sup> Consecutive Virginia Mining Institute  
Safety Day Contest  
2016



"Mine Safety Through Education And Training"

VIRGINIA MINING INSTITUTE

Day 1

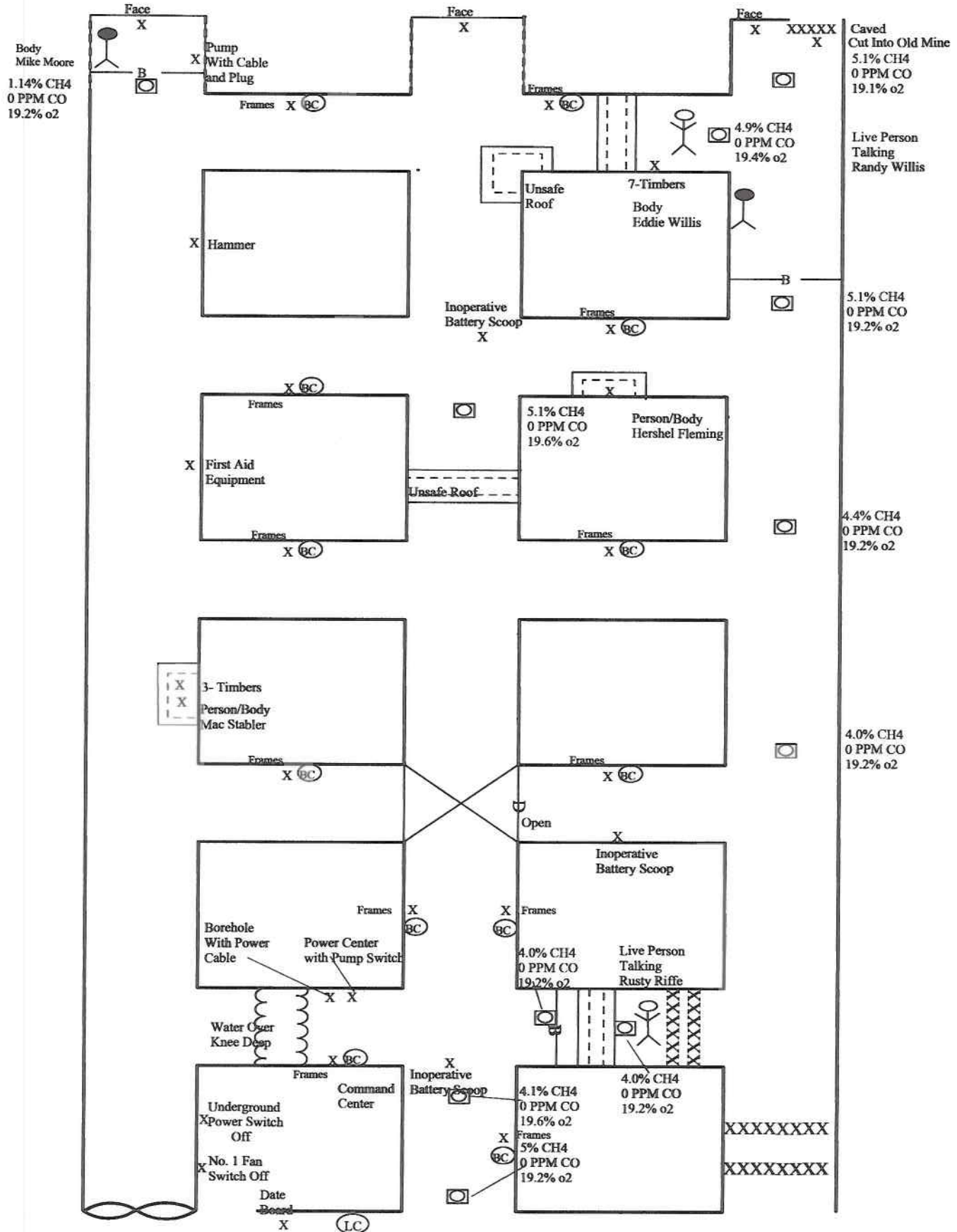


SAFETY FIRST

# Virginia Mining Institute

August 3, 2016

V-1-16



**Virginia Mining Institute**  
**V-1-16**  
**Statement**

**Thank you for answering Virginia Mining Company's call for help. We have had a problem at the No. 50 mine and your assistance is urgently needed. When you arrive at the mine site you will be located on the surface near the mine portals. The mine is being ventilated by an exhaust fan installed in the no. 1 entry. The fan is presently off and can be started by turning the switch on, in the command center. When started, it cannot be turned off or reversed.**

**This morning at 7:01am 7 men entered the mine to produce coal. At 8:00 am one man exited the mine reporting that he thought that the crew had cut into an old mine and that low oxygen had been detected on the section and the crew was feeling dizzy. Several attempts to contact the missing miners have been unsuccessful.**

**The mine does liberate methane gas. Poor roof conditions have been encountered at times and some water accumulation has occurred from time to time.**

**All electrical power to the underground area of the mine has been de-energized and locked out, power is supplied to the fan and power switches located on the surface in the command center. Power cable extends underground through a borehole to a power center located near an area where water that has to be pumped periodically. If the team needs to turn on the fan and/or power doing the working of the problem, the team needs to instruct the command center to do so.**

**Virginia Mining Institute**  
**V-1-16**  
**Statement**

**The mine map is not up to date; when more information is obtained you will be notified.**

**Both agencies have been notified and are present.**

**A backup mine rescue team is present to act as your back up**

**We have a competent life line judge available (point out). Two blank maps and the team's written instruction will be provided when you are ready to begin work.**



**Virginia Mining Institute**  
**V-1-16**  
**Team Instructions**  
**Problem**

- Rescue all live persons and bring them to the surface.
- Account for all missing miners.
- After the team starts the mine fan they cannot stop or reverse the fan.
- The team cannot move any ventilation control that's anchored to the ground.
- Team must identify all missing persons by recording their name on the team map after captain examine the missing person.
- A time limit of 95 minutes has been established for this problem. The team will be advised 10 minutes prior to this time limit expiring

**Virginia Mining Institute**

**V- 1 – 16**

**Patient Note #1**

**(Patient “Rusty Riffe “Behind barricade at Caved area  
between No. 2 and 3 entry)**

**“ Help, Help, get me out..... I have a  
Caved Area Behind me”**

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**V- 1 – 16**

**Patient Note #2**

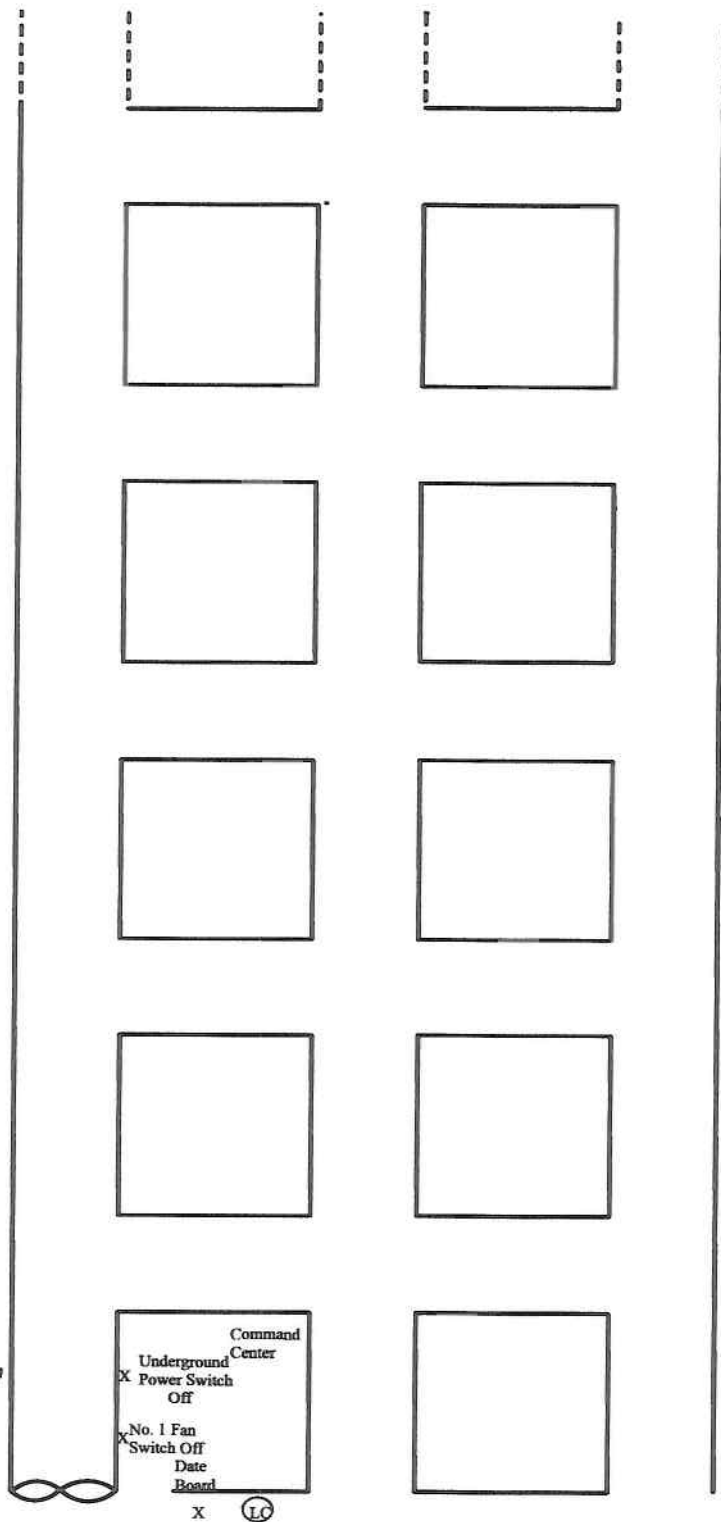
**(Patient “Randy Willis” Behind barricade in # 3 entry - Last  
open crosscut)**

**“ Help, Help, get me out.....”**

Team Map  
Team No. \_\_\_\_\_

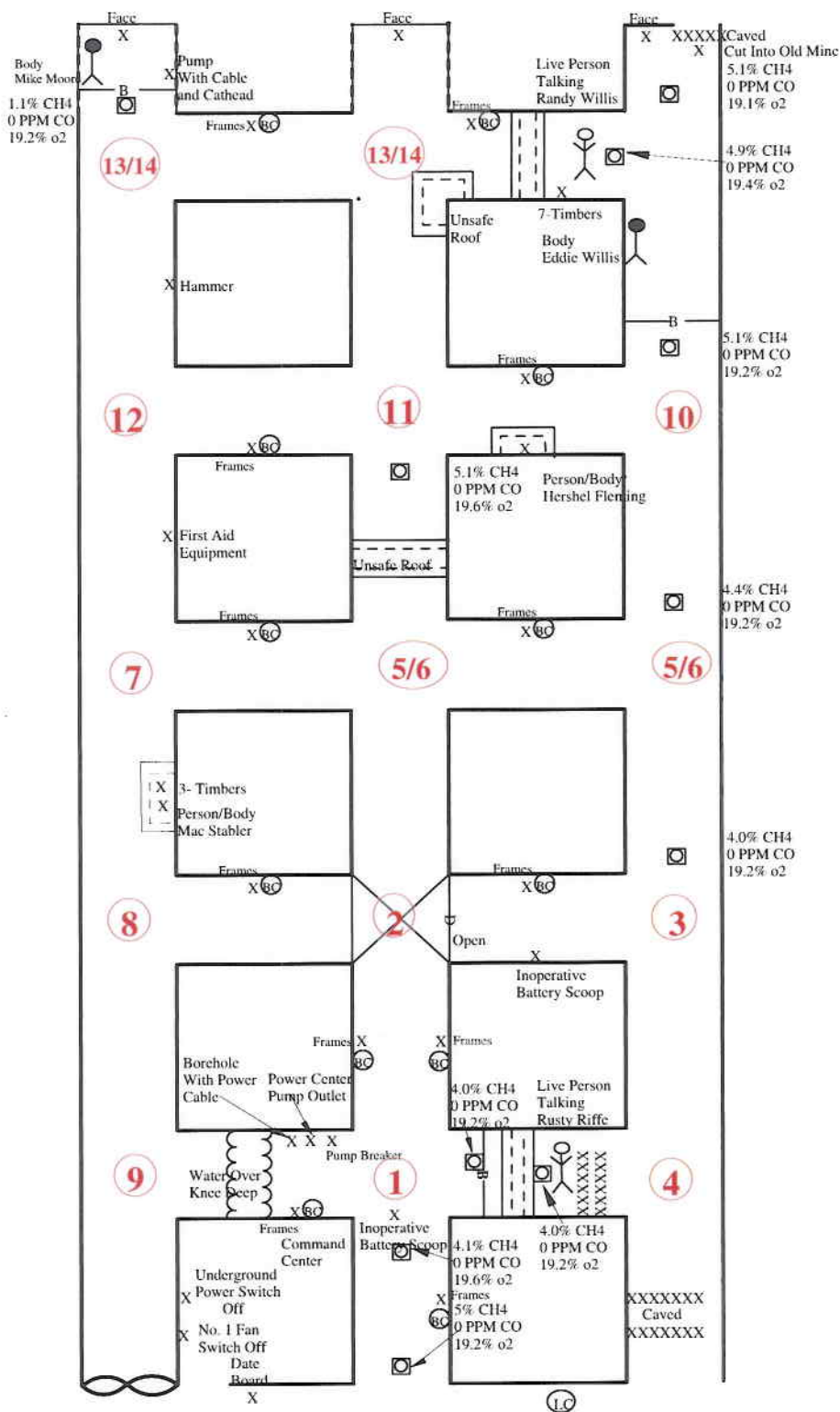
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Scale: 1" = 10'



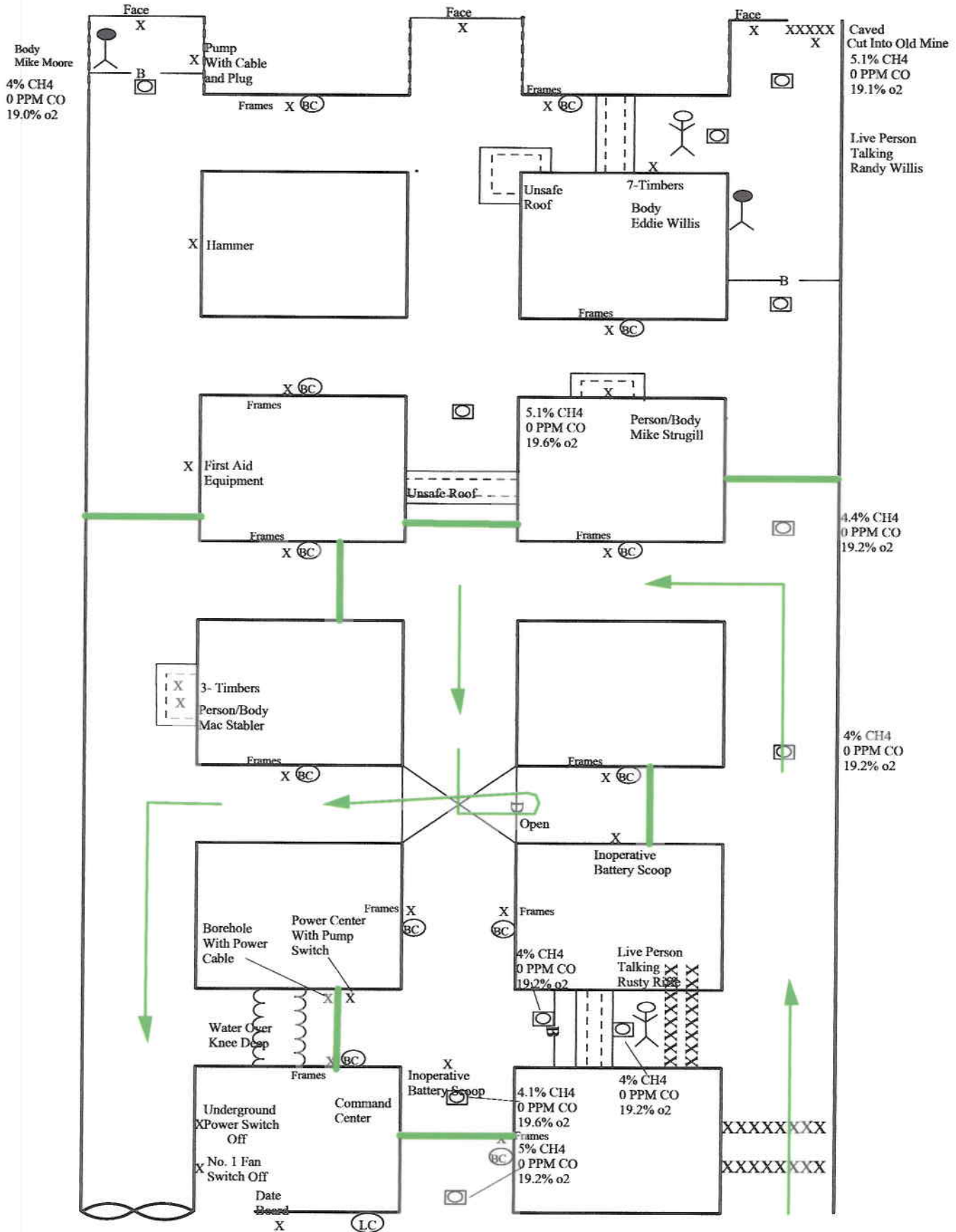


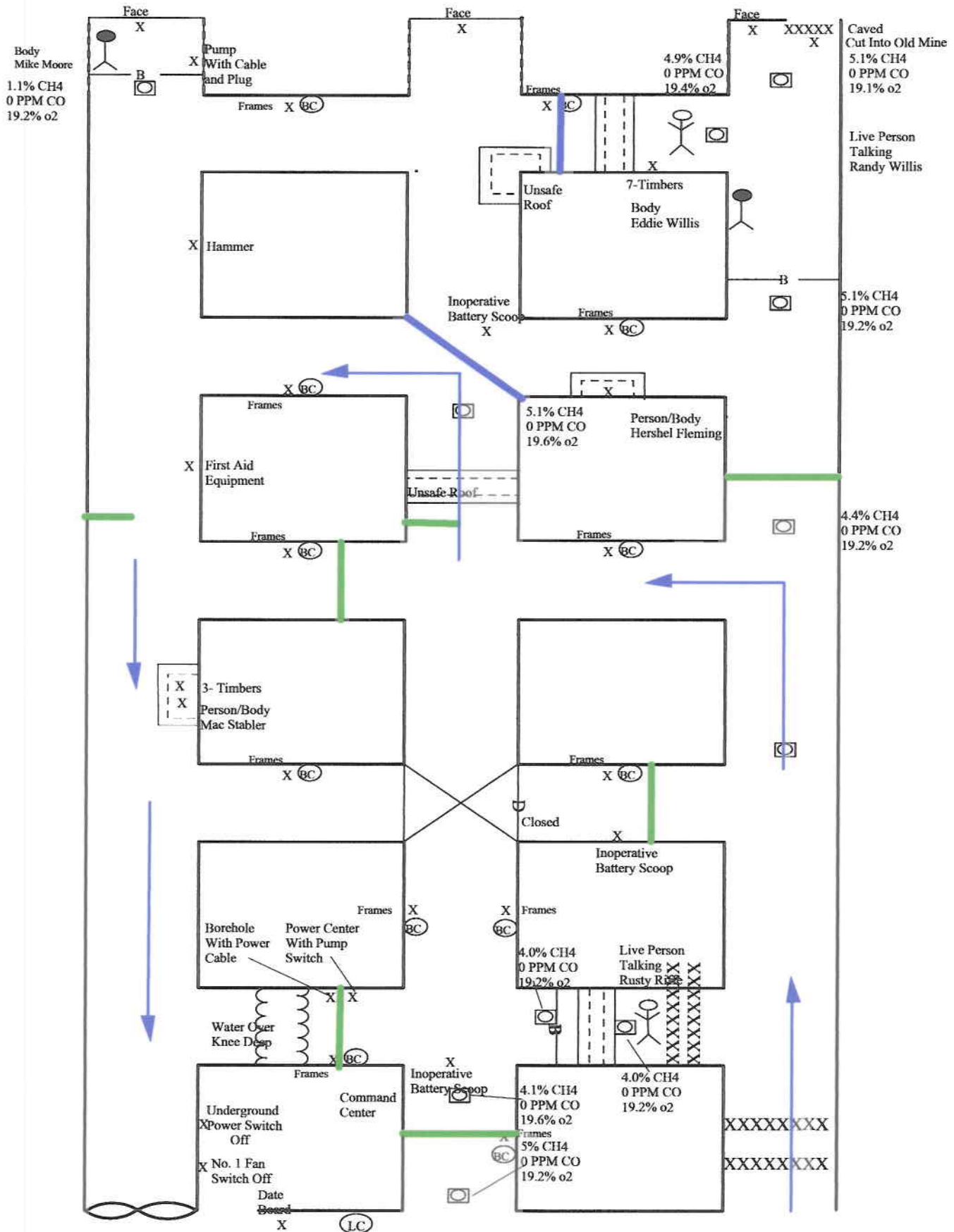
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First Ventilation





## Third Ventilation

