

34th ALABAMA COAL ASSOCIATION 2010 Mine Rescue Contest



May 19, 2010 Problem Briefing



Alabama Coal Association

2010 ACA MINE RESCUE CONTEST

Superintendent Statement

I am _____, Superintendent of the Big Red No. 2 Mine. Thank you for answering our call for help. You are located in the fresh air base just inside the mine.

Early this morning, (Four) 4 men entered the mine to run early coal. At 5:00 am, an explosion was heard and the exhaust fan stopped. All attempts to reach the crew have been unsuccessful . All (Four) 4 miners are still missing.

I traveled into the no. 1 and no. 2 entry and found smoke. I then came back outside to call for help.

A fresh air base has been set up in this first crosscut. The exhaust fan has been repaired and can be turned on by asking me. We do have a airshaft in the no.1 entry that was just completed and can be used for ventilation. The exact location of the airshaft will be given to you when we give you the up to date maps for this mine. We just put a refuge chamber in this mine and it is our hope that the missing miners may have found their way to the chamber after the incident.

All electrical circuits going in the mines have been de-energized, locked out and guarded.

This mine has problems with water, bad roof and methane. We have a competent lifeline person to give and return signals (point this person out)

Written instructions and mine maps will be provided when the clock is started.

Back-up mine rescue teams are standing by and all required authorities have been notified and are present at the mine.

This is all the information we have at this time.

ACA 2010 Mine Rescue Contest

Problem

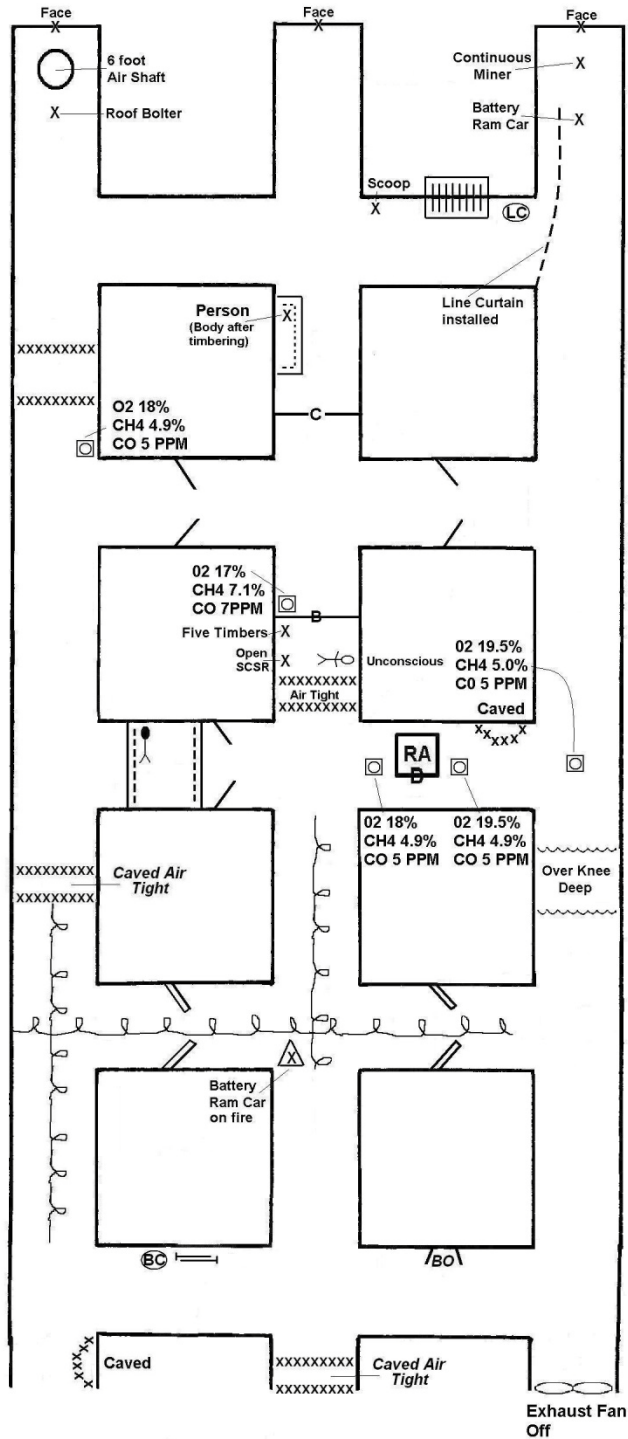
(Written Instructions)

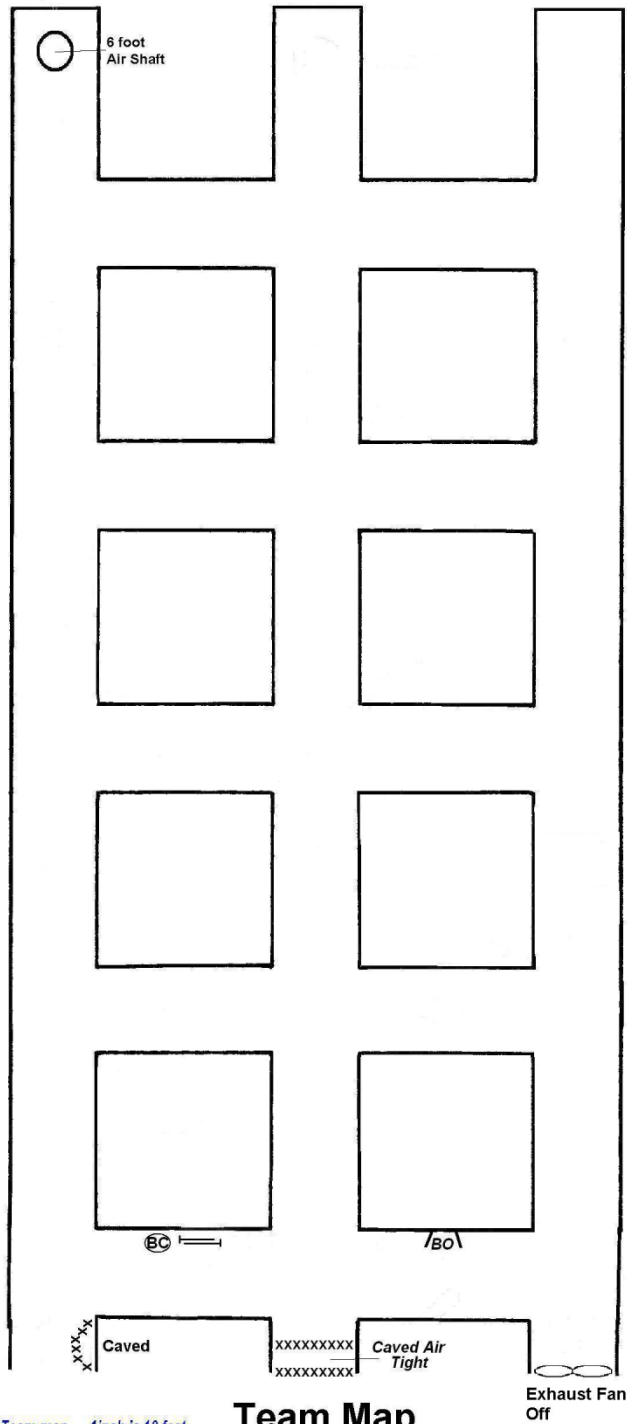
**ACCOUNT FOR ALL MISSING
MINERS**

**THE EXHAUST FAN CAN BE
STARTED, STOPPED AND
REVERSED BY ASKING THE
SUPERINTENDENT**

**LINE CURTAINS CAN ONLY BE
USED TO WING OUT A
BARRICADE OR A FACE**

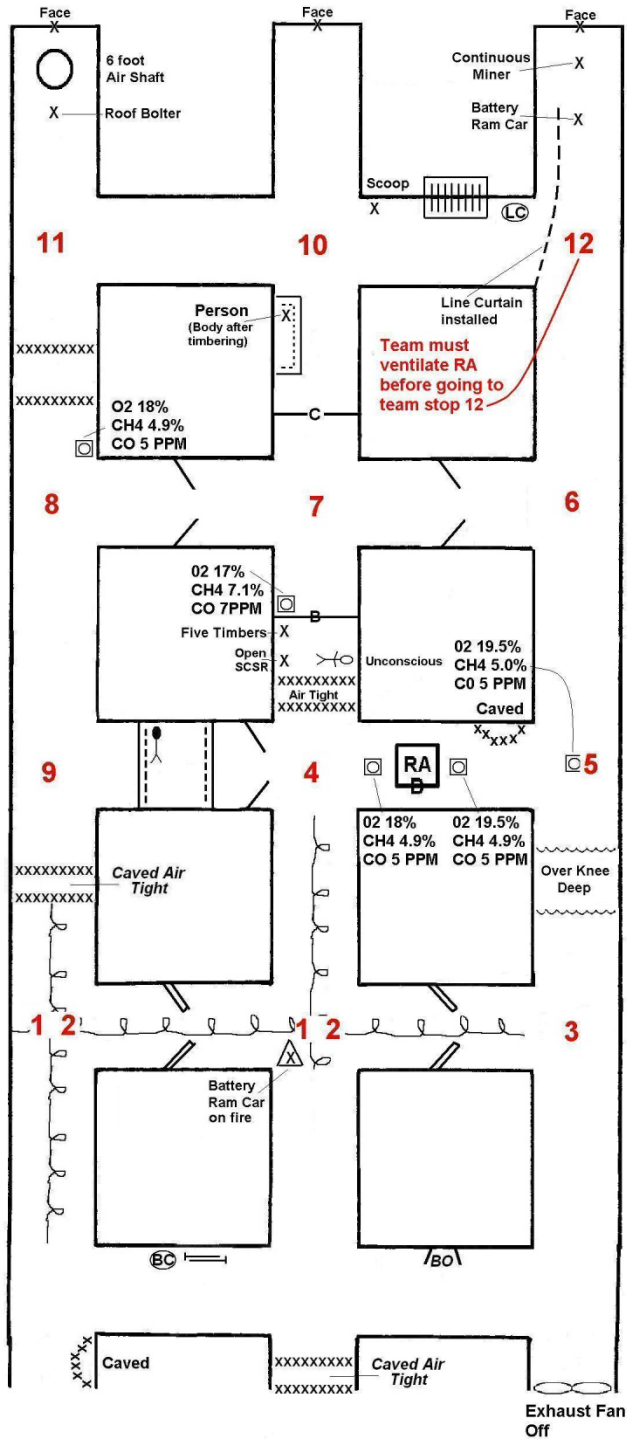
2010 ACA Mine Rescue Contest



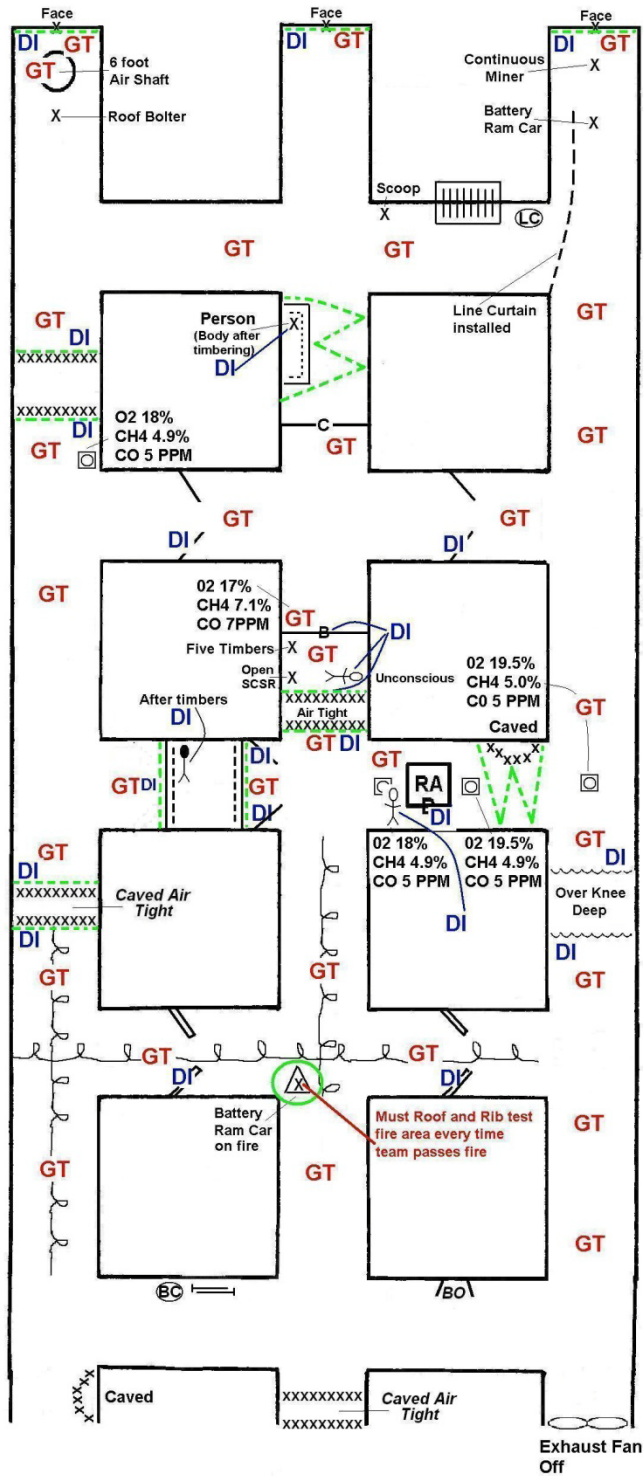


Team Map

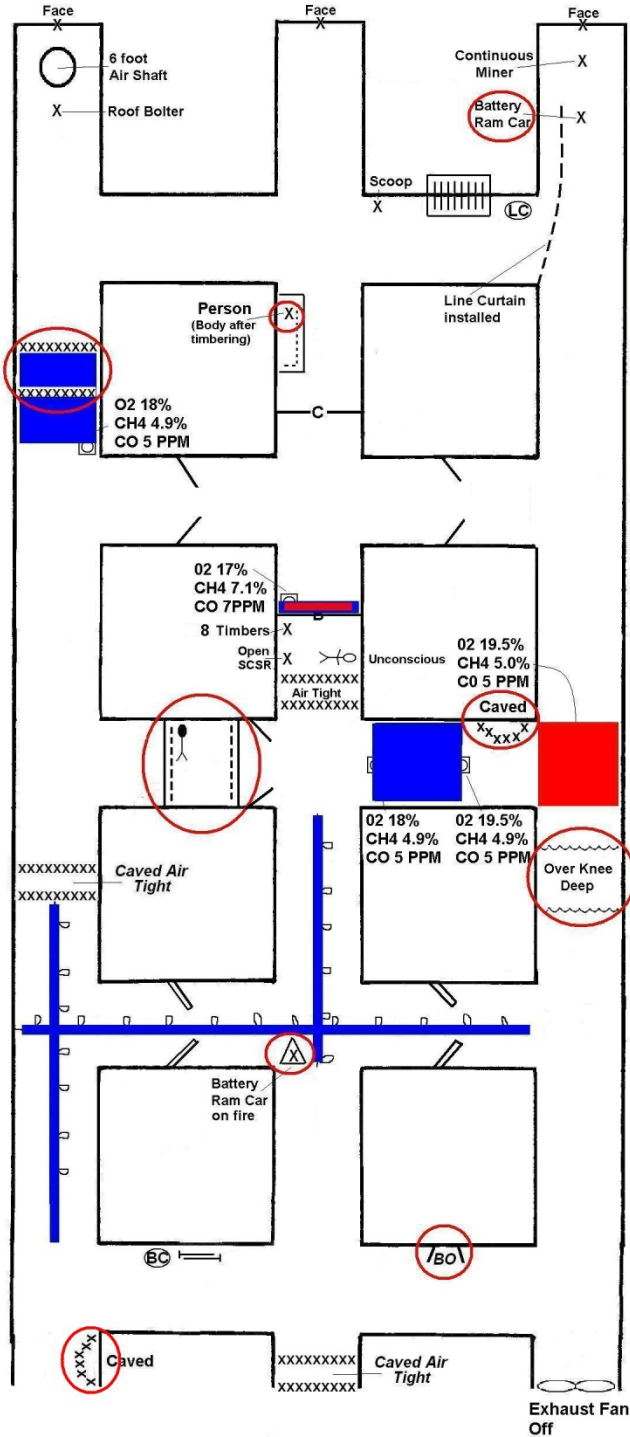
Team Stops



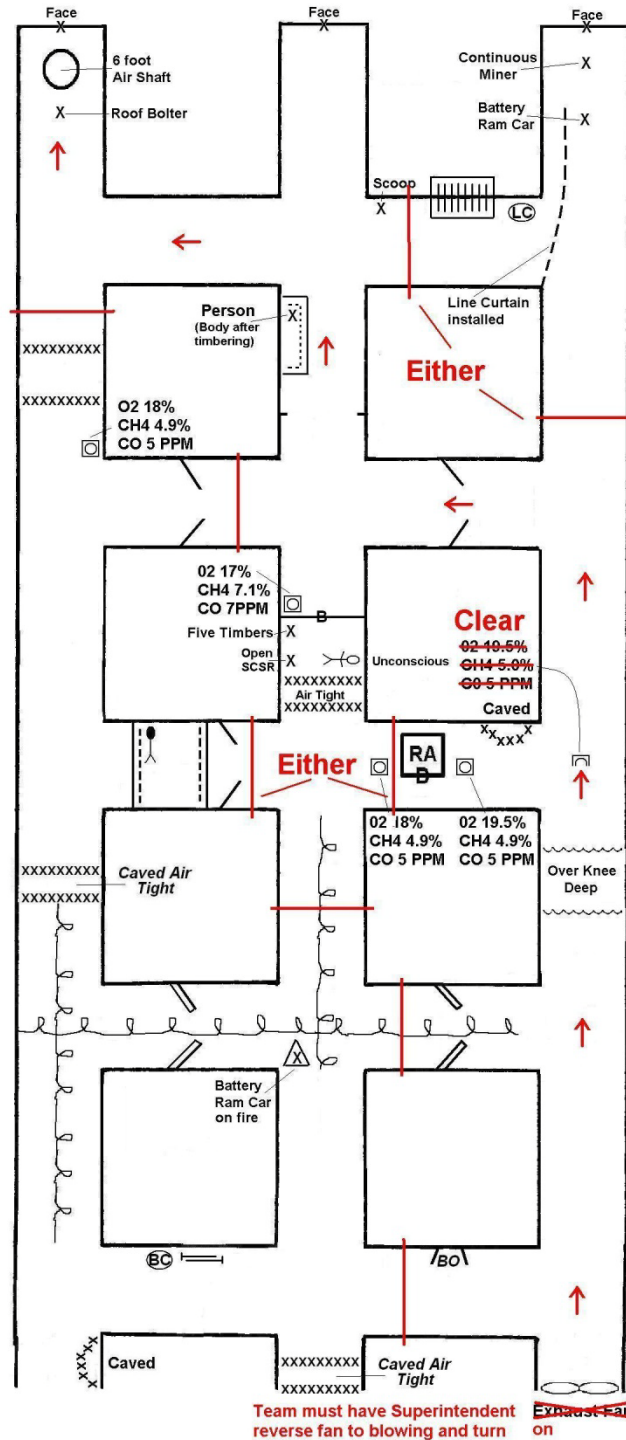
GT = Gas test
 DI = Date & Initial
 Roof & rib test



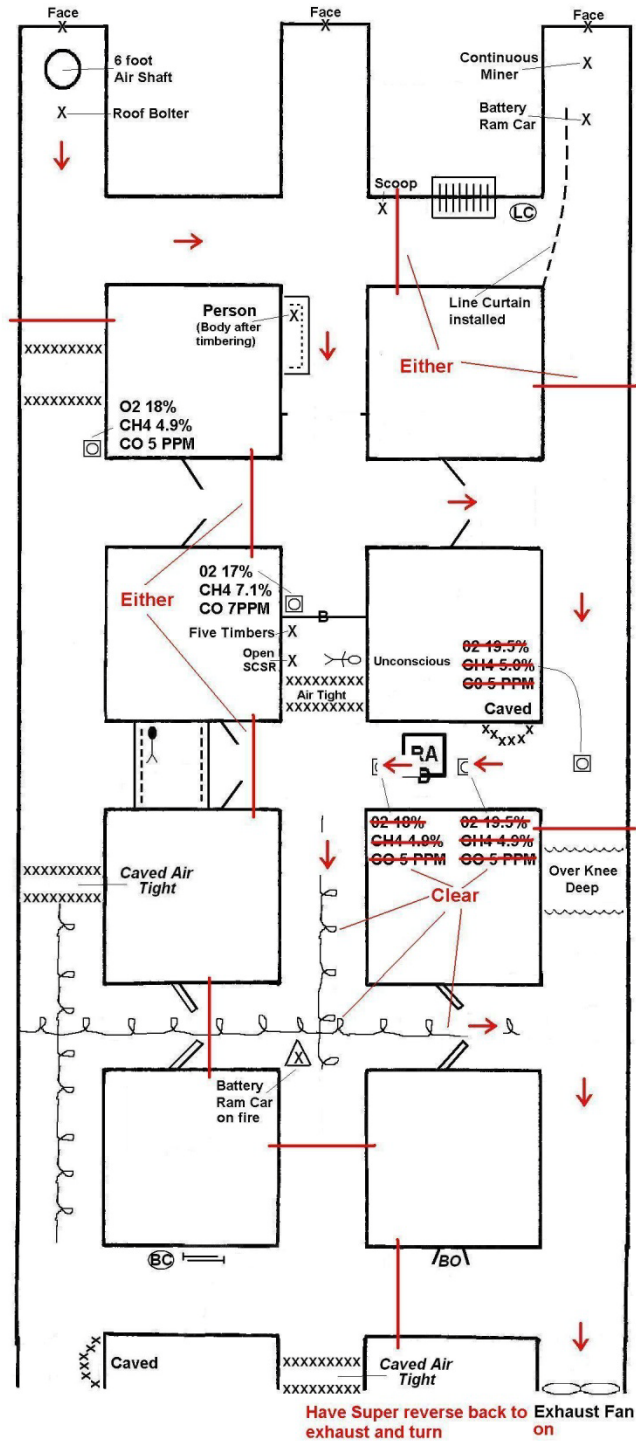
Extent of Gases and Smoke
 Irrespirable
 Explosive



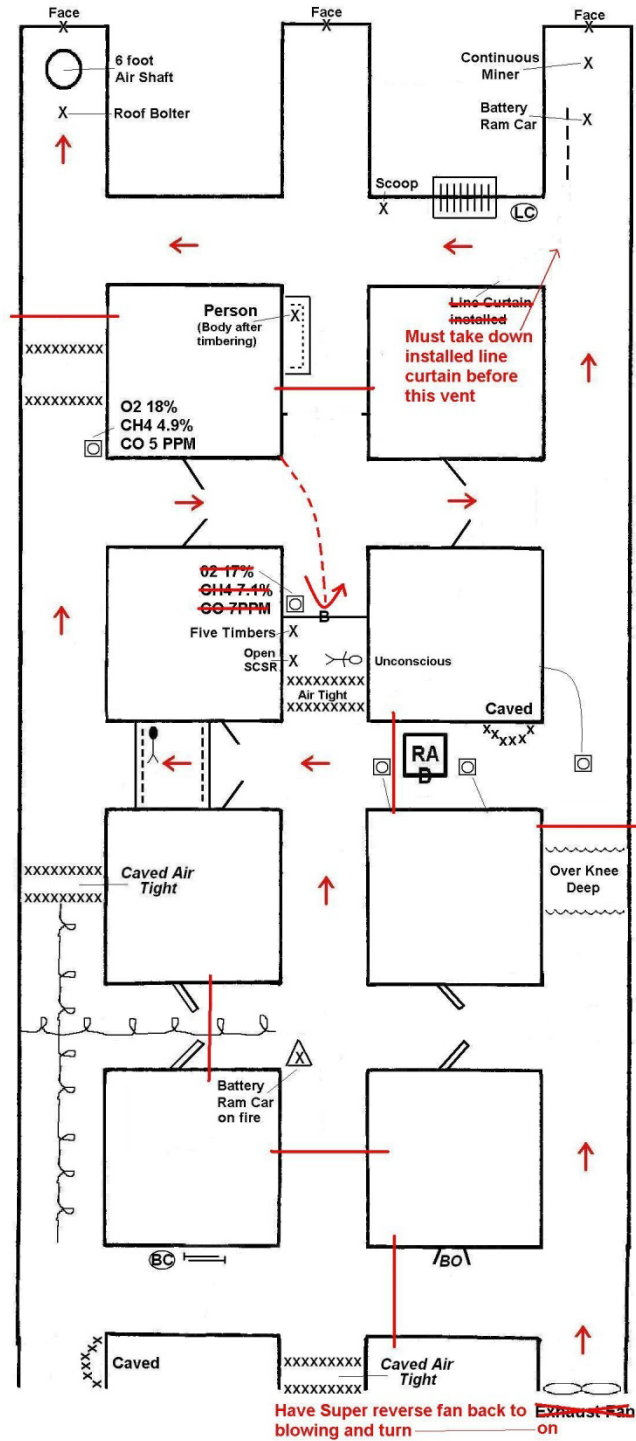
First Vent



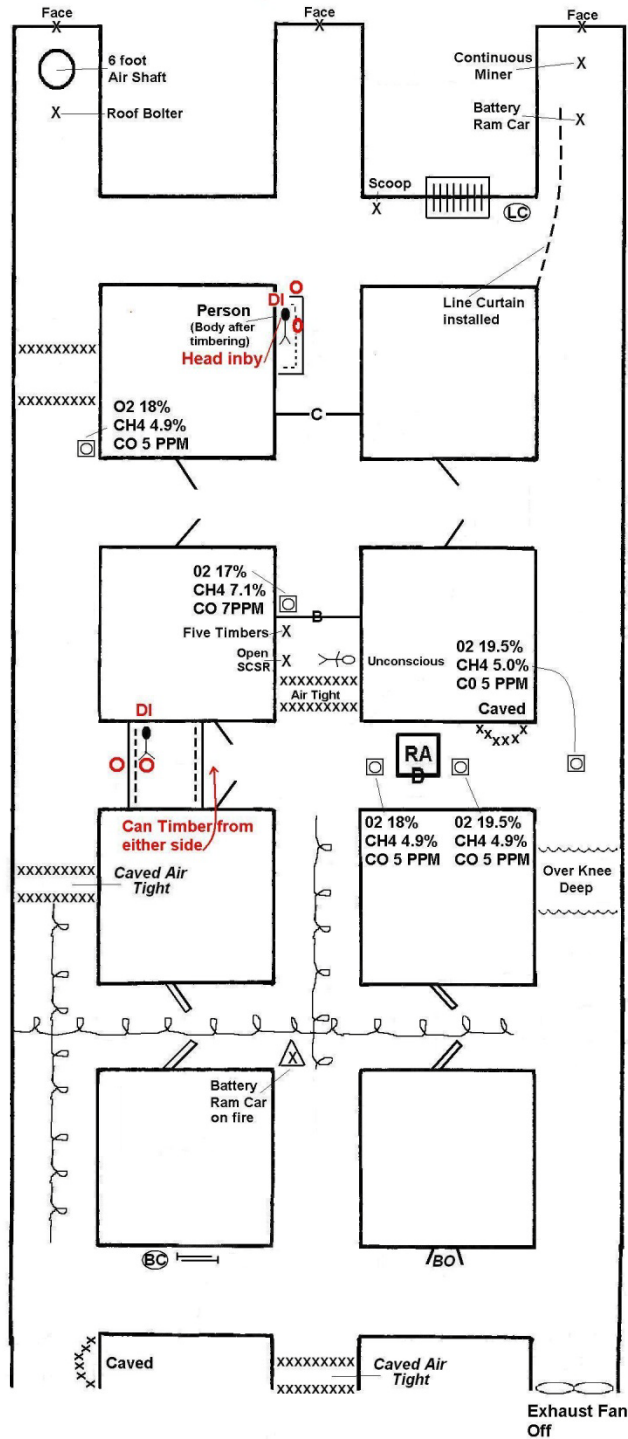
Second Vent



Third Vent



Timbering at end of problem



PATIENT STATEMENT
IN REFUGE
ALTERNATIVE

HELP! GET ME
OUT OF
HERE.....

Keys to Problem

- **Team must ventilate RA before exploring to team stop 12 (last open crosscut in no. 3 entry)**
- **Team must ventilate Barricade after RA has been ventilated**
- **Team must not send low O₂ or smoke over unexplored areas and missing person in unsafe roof**
- **Team must not send explosive mixture over unexplored areas or battery ram cars**
- **Team must take down installed line curtain in 3 face before 3rd vent**
- **Team cannot compare maps after 3rd vent**
- **Team must timber to missing person first then body in unsafe roof rib to rib at end of problem**