

36th



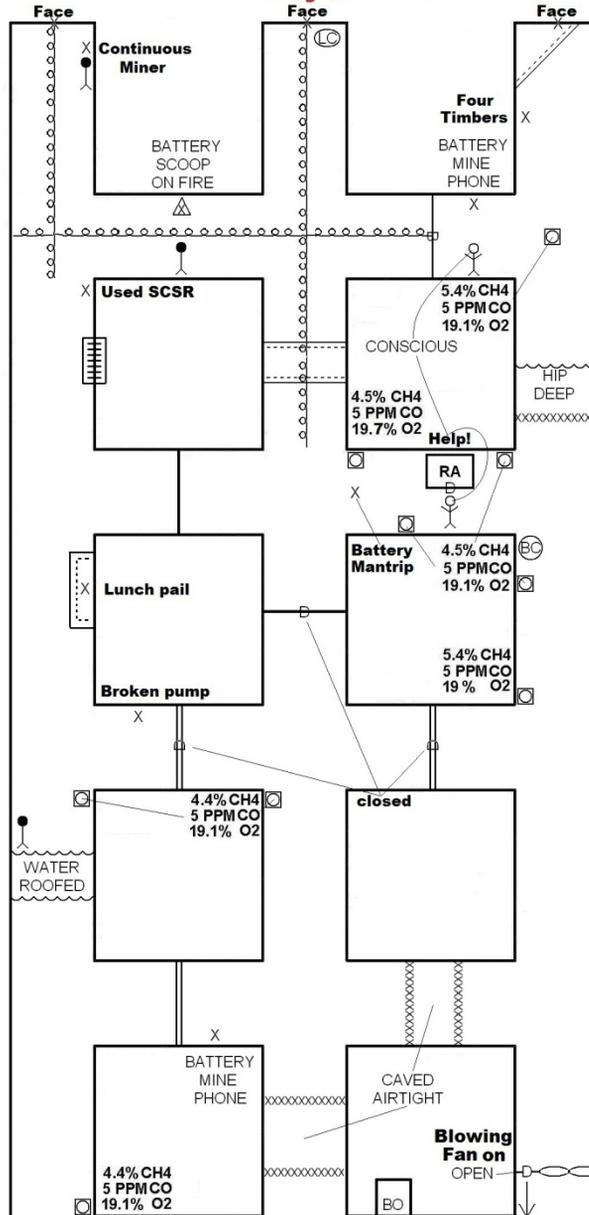
Alabama Coal Association

**2012
Mine Rescue
Contest
Day 2**

May 16th 2012

**Judge's
Briefing**

**ACA 2012
Day 2**



ACA Mine Rescue Contest 2012 Statement Day 2

You are located on the surface of the Roll Tide No. 1 mine. The fresh air base was established here when conditions were encountered that indicated a need for a trained mine rescue team to continue exploration.

At 5:00 AM this morning, Five Miners (5) miners entered the mine to run early coal at this one unit mine. One of the miners called outside and reported that the scoop on the section was on fire. We have had no further contact from the five miners who were located on the section.

Methane and bad roof and rib conditions have been a constant problem for the section. We have also encountered water problems on the section.

The main fan is operating as a blowing type system and cannot be stopped, reversed or stalled. The intake normally air enters the section in the no.3 entry and exits the no.1 entry.

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

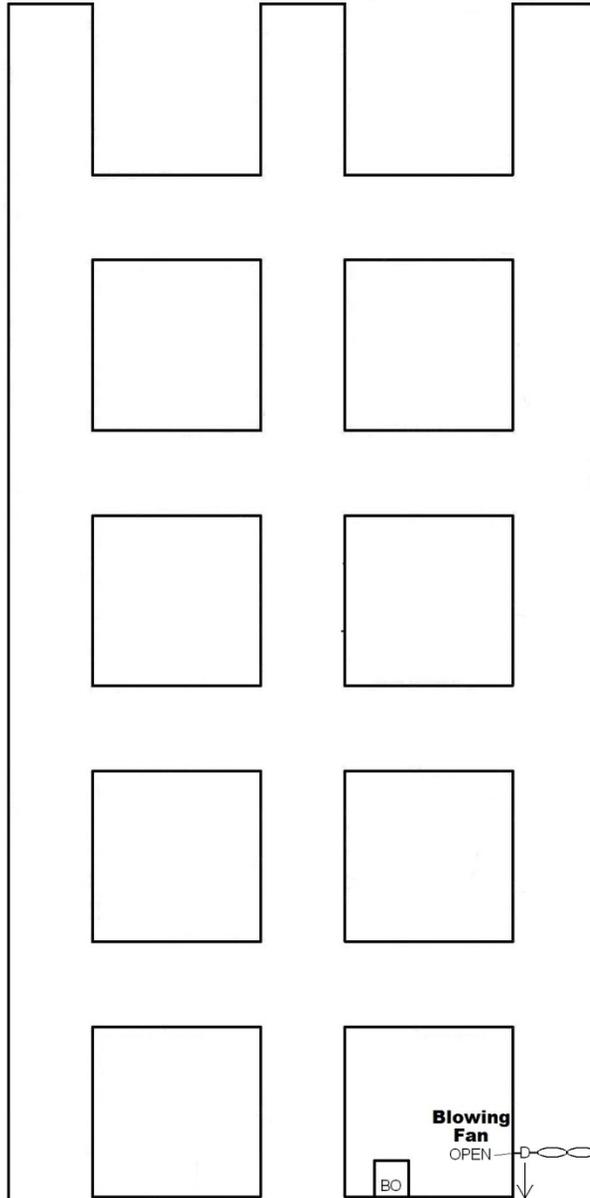
The mine maps are up-to-date.

This is all the information we have at this time.

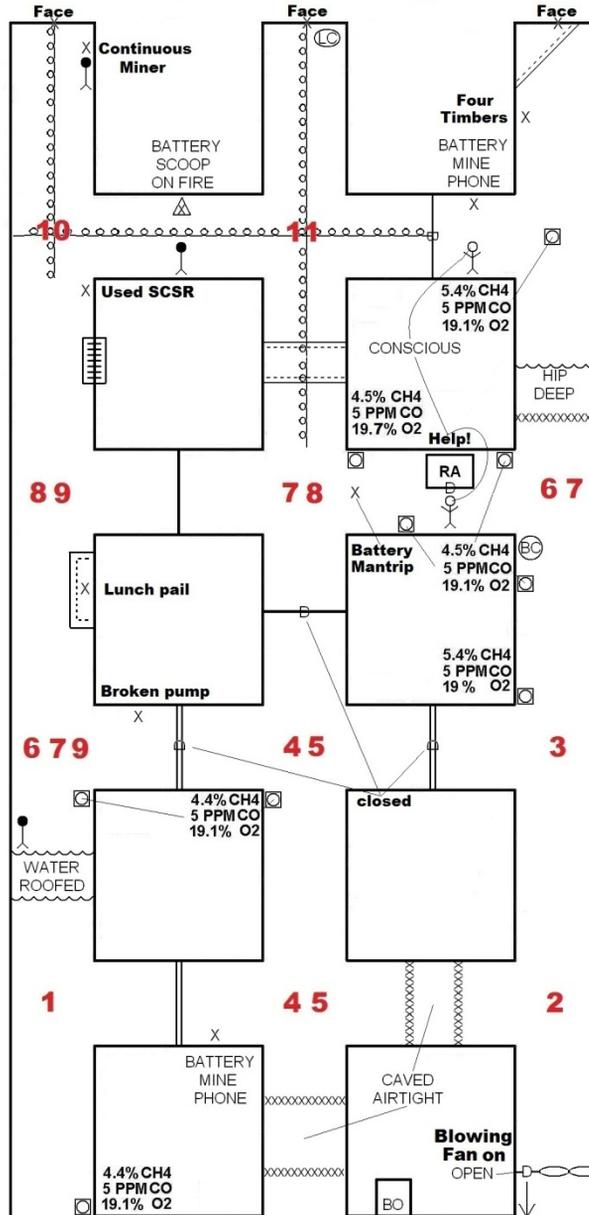
ACA 2012
Mine Rescue Contest
Team Instructions

- **Account for all missing persons.**
- **Explore all accessible areas that can be safely examined.**
- **Rescue all live persons and bring them to the Fresh Air Base.**
- **During initial exploration, report all explosive mixtures found by the team to the Superintendent before moving to the next team stop.**
- **You will be allowed 80 minutes for working the problem. You will be notified by the timekeeper when you have 5 minutes to work.**

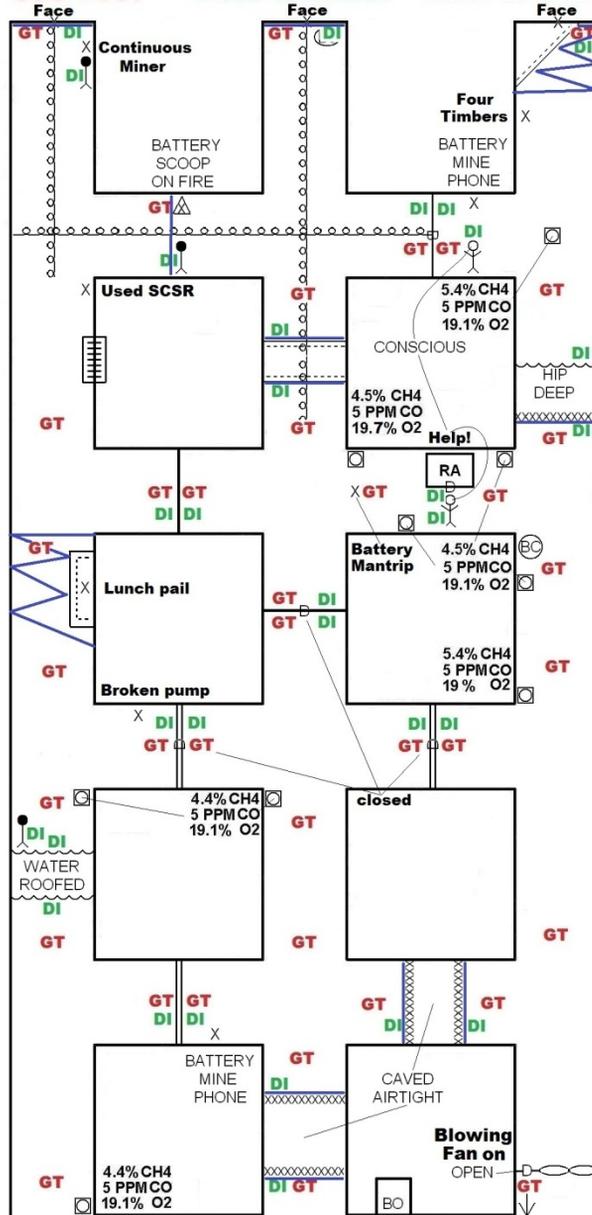
Team Map



Possible Team Stops

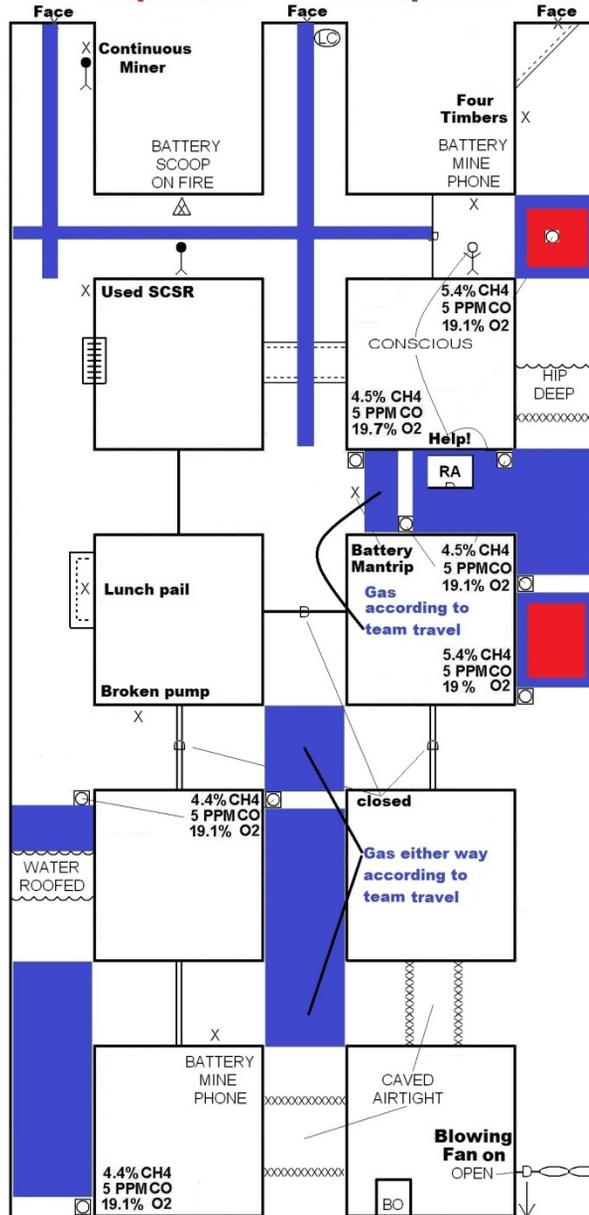


Gas Test Date & Initial Roof & Roof

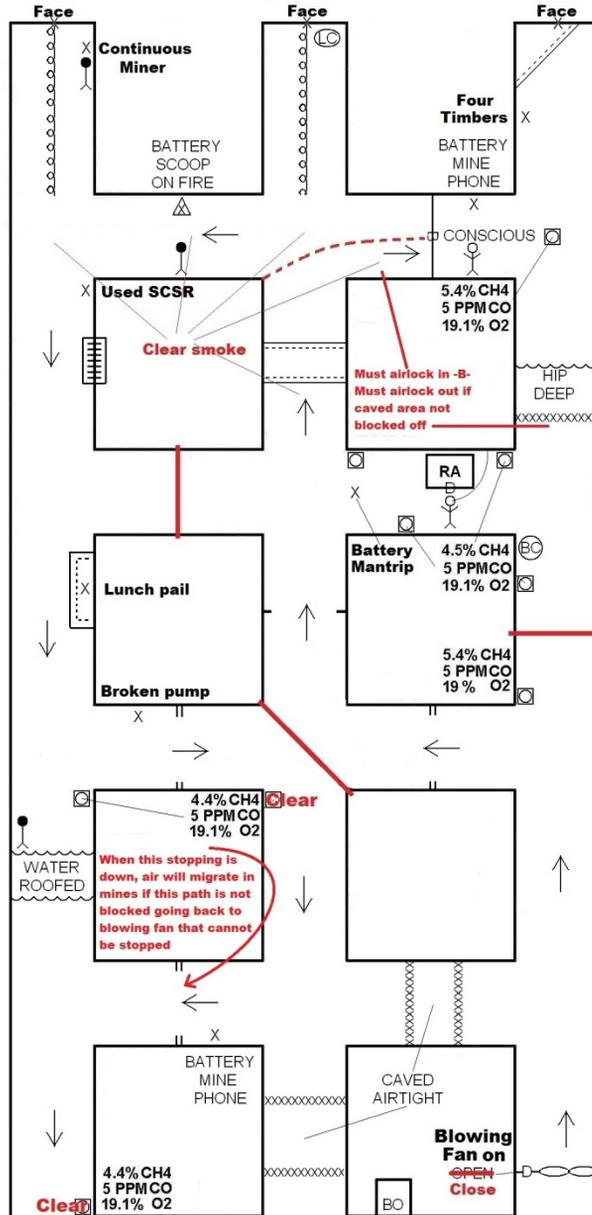


Explosive

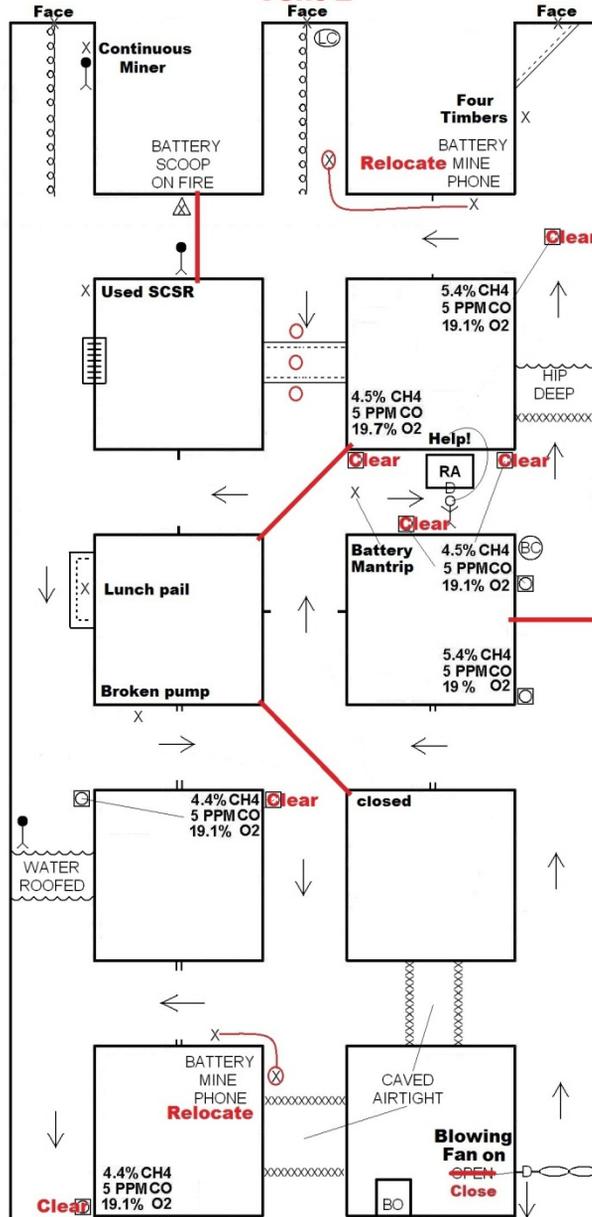
Irrespirable



**Day 2
Vent 1**



**Day 2
Vent 2**



Both Phones must be moved before this vent

ACA 2012
Mine Rescue Contest

Patient Statement in RA

“Help! “get me out”...

Patient Statement in Barricade
between no.2 and no. 3 entry in
last open crosscut

“Help!”get me out”

Keys to Problem

- Fan is in by fresh air base and cannot be stopped, stalled or reversed. Migration will occur when air has a path to flow in and out of the mine. At the start of the problem, air is blocked from migration by stoppings and caved airtight in 1 and 2 entries.
- All builds must be in place before opening a path to the outside. Also, closing door in the fan should be the last thing a team does before each ventilation.
- Team can stall the fan if the door in the fan is closed and no path exists to the surface.
- Team must never let explosive mixture move in the no. 3 entry just out by the RA
- Team must move both battery mine phones before 2nd ventilation is done.
- Team must not let explosive mixtures flow over battery scoop that was on fire or battery man-trip in crosscut with RA. Also, not let explosive mixture flow over caved and water hip deep area.
- Team must not move battery mine phone into intersection of no 3 entry last open. Explosive mixture is in the intersection.
- Team must timber thru unsafe roof in no.2 entry before 2nd vent is done.