

**36<sup>th</sup>**



**Alabama Coal Association**

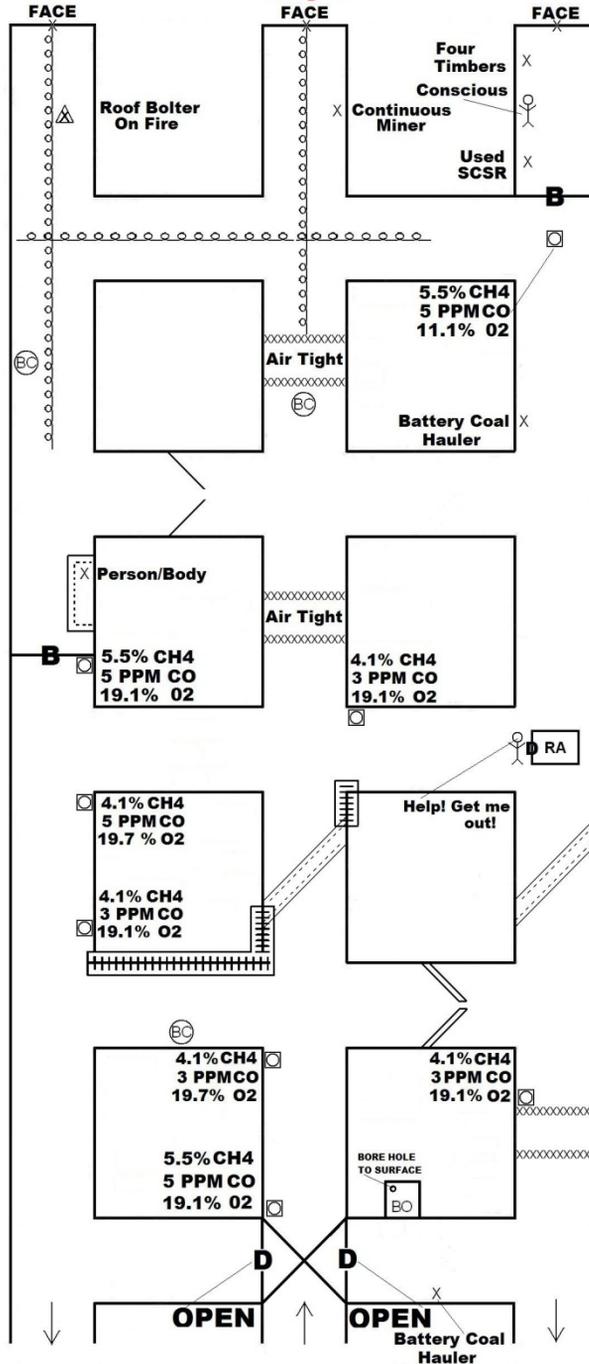
**2012  
Mine Rescue  
Contest  
Day 1**

**May 15<sup>th</sup> 2012**

**Judge's  
Briefing**

**ACA 2012**

**Day 1**



# **ACA Mine Rescue Contest 2012 Statement Day 1**

**You are located underground at the fresh air base on the first right section. This fresh air base was established when conditions were encountered that indicated a need for a trained mine rescue team to continue exploration.**

**At 4:00 AM this morning, Three (3) miners entered the mine to rock dust on the First Right Section. One of the miners called outside and reported that the cable reel on the roof bolter had caught on fire. We have had no further contact from the three miners who were located on the section.**

**Methane and bad roof and rib conditions have been a constant problem for the first right 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 air enters the section in the no.2 entry (middle entry) and exits the no.1 and no. 3 entries.**

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

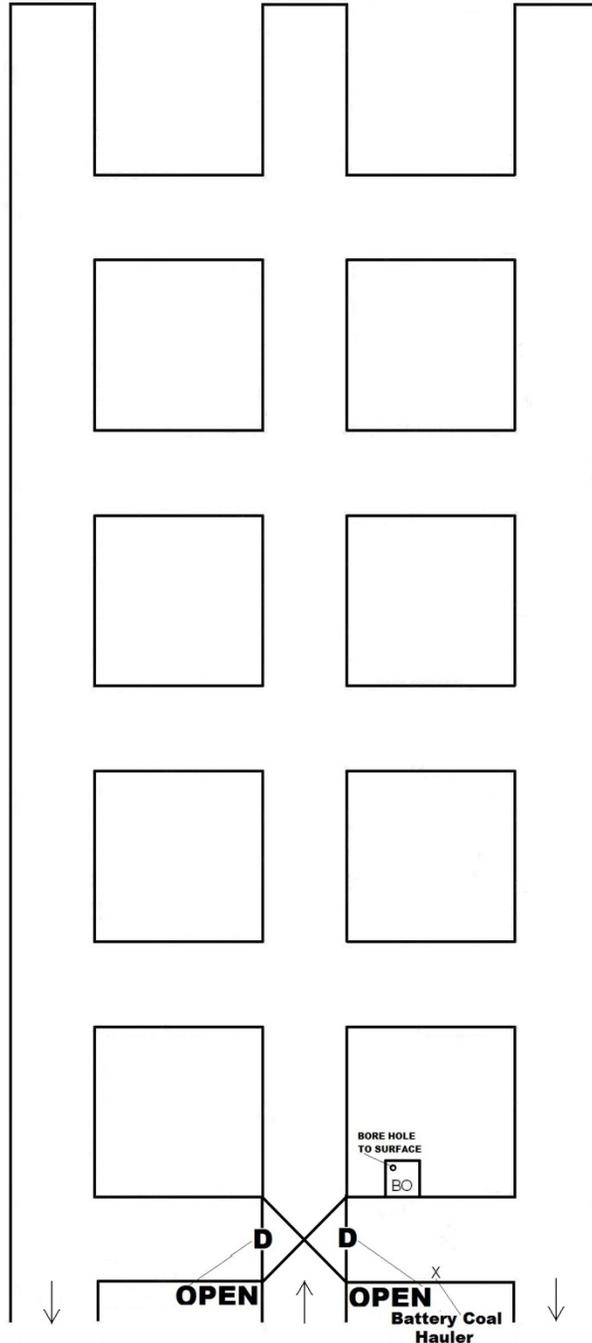
**The mine maps are up-to-date.**

**This is all the information we have at this time.**

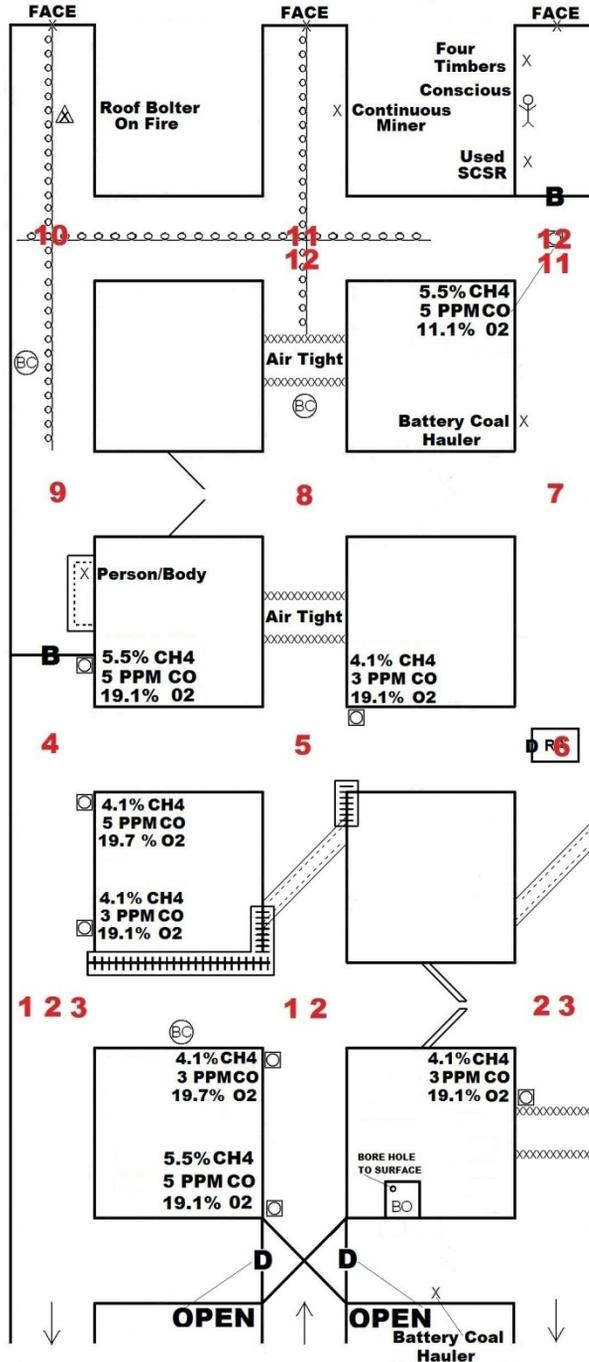
**ACA 2012**  
**Mine Rescue Contest**  
**Team Instructions**

- **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**
- **You will be allowed 80 minutes for working the problem. You will be notified by the timekeeper when you have 5 minutes to work.**

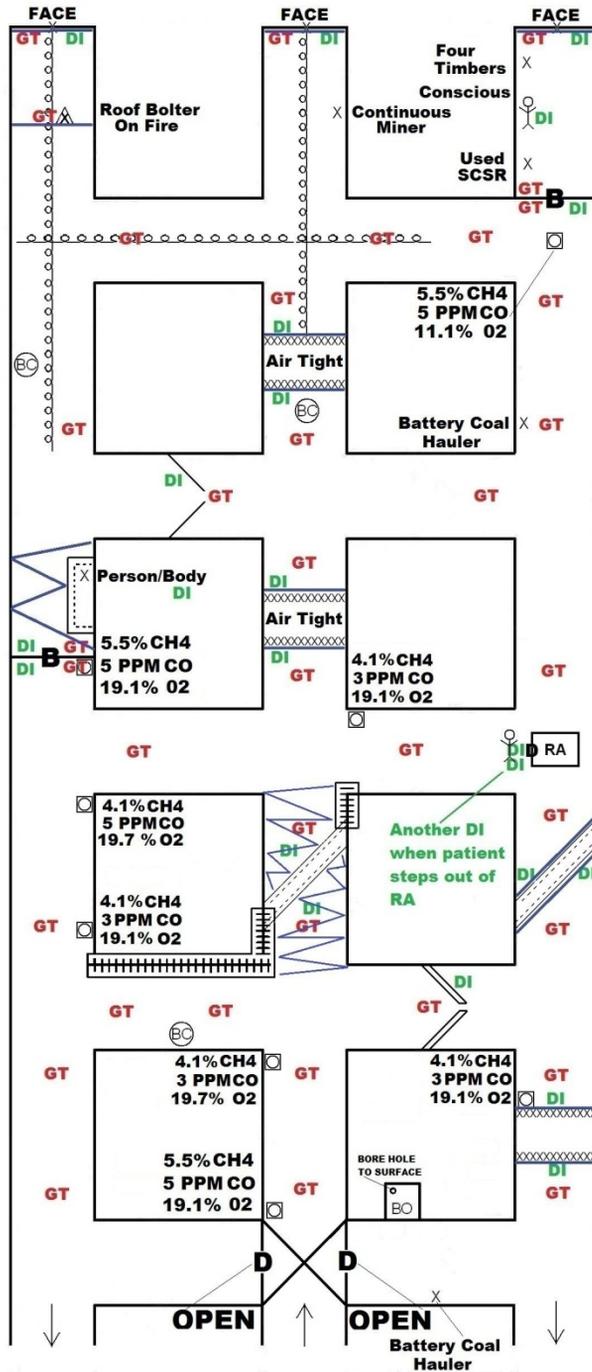
# Team Map



## Possible Team Stops

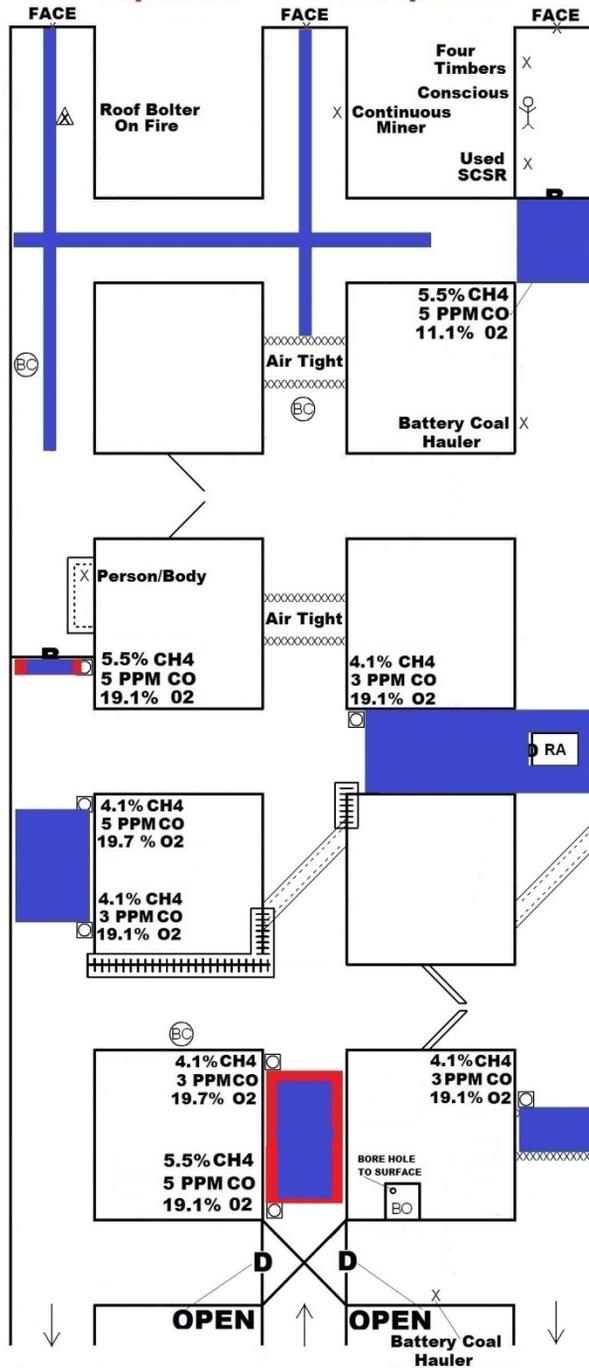


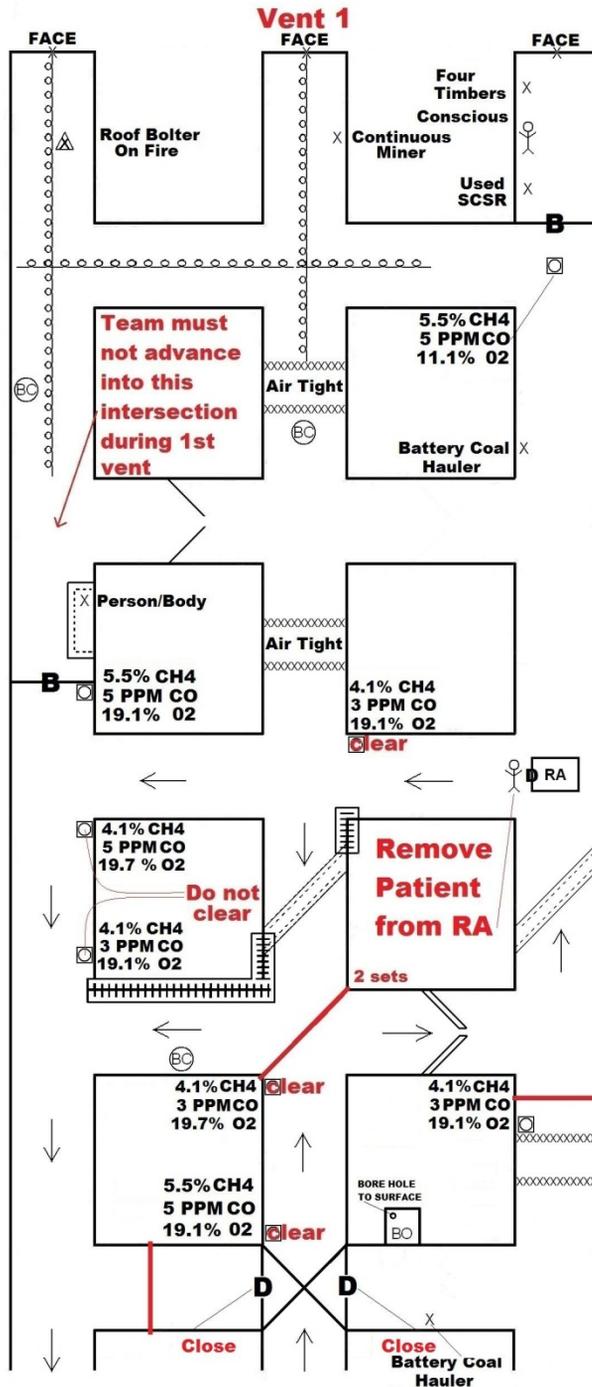
**Gas Test    Date & Initial    Roof & Roof**

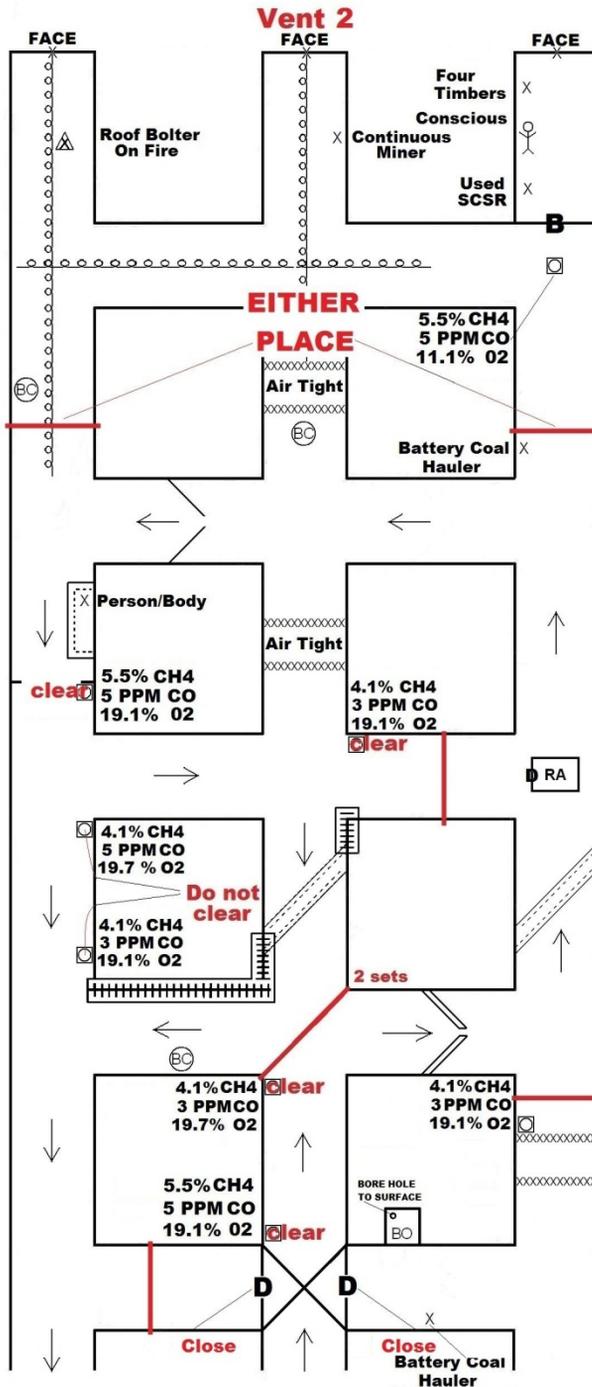


**Explosive**

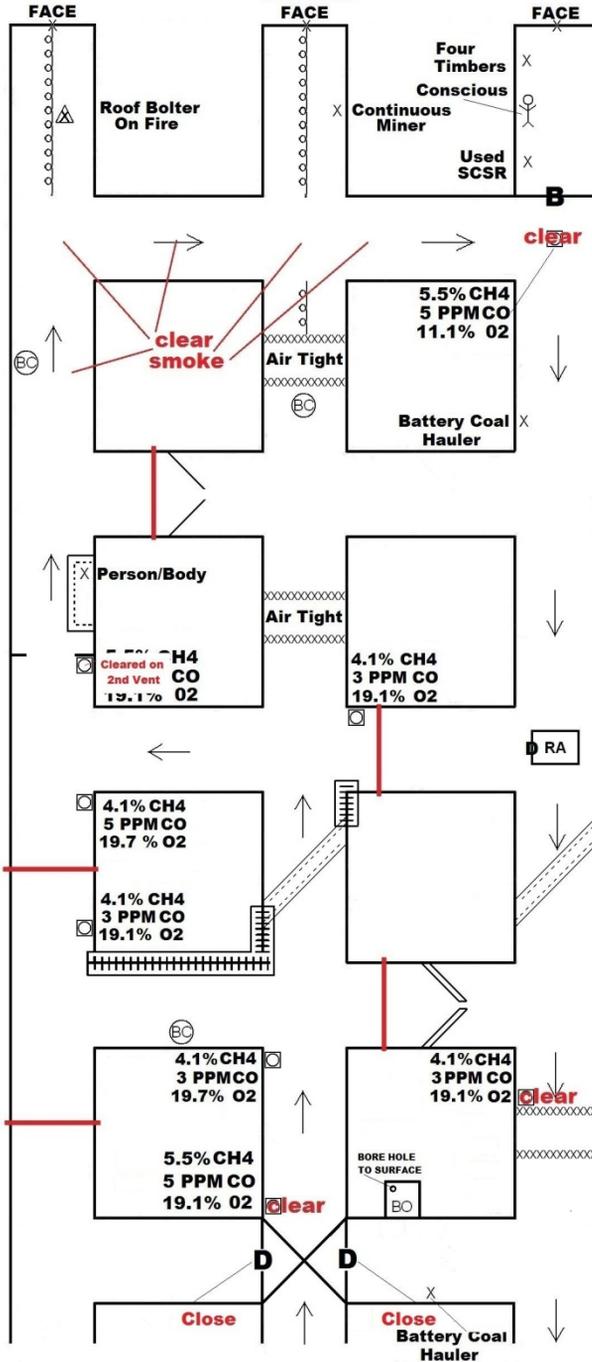
**Irrespirable**







### Vent 3



**ACA 2012**  
**Mine Rescue Contest**

**Patient Statement in RA**

**“Help! ....get me out”...**

**Patient Statement in Barricade**  
**in No.3 entry**

**“Help! ....It’s airtight behind  
me”!**

# Keys to Problem

- **TEAM MUST NOT LET EXPLOSIVE MIXTURE FLOW OVER BATTERY COAL HAULER IN FRESH AIR BASE DURING FIRST AND SECOND VENTILATION**
- **AIR WILL FLOW INBY FAB WHEN BOTH DOORS ARE CLOSED AT OVERCAST**
- **THE LOW O2 IN NO.1 ENTRY SHOULD NEVER CLEAR (BETWEEN 1<sup>ST</sup> AND 2<sup>ND</sup> CROSSCUT)**
- **TEAM MUST HAVE PATIENT UNDER SCSR OR APPARATUS WHEN BRINGING THEM FROM THE RA OR THE BARRICADE**
- **TEAM MUST NOT SEND LOW O2 OVER PERSON IN UNSAFE ROOF IN NO.1 ENTRY**