## 34<sup>tH</sup> ALABAMA COAL ASSOCIATION 2010 Mine Rescue Contest



May 19, 2010 Problem Briefing





**Alabama Coal Association** 

#### 2010 ACA MINE RESCUE CONTEST

#### **Superintendent Statement**

l 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**

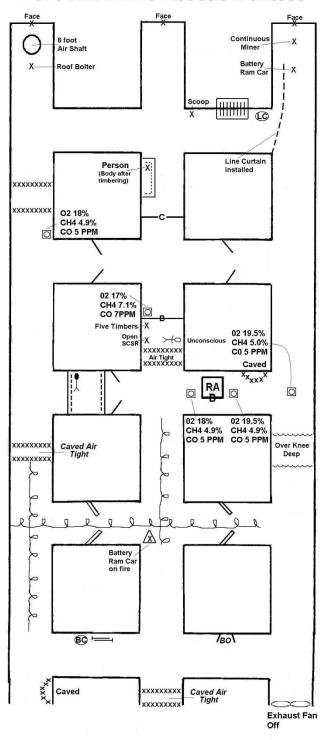
### Problem (Written Instructions)

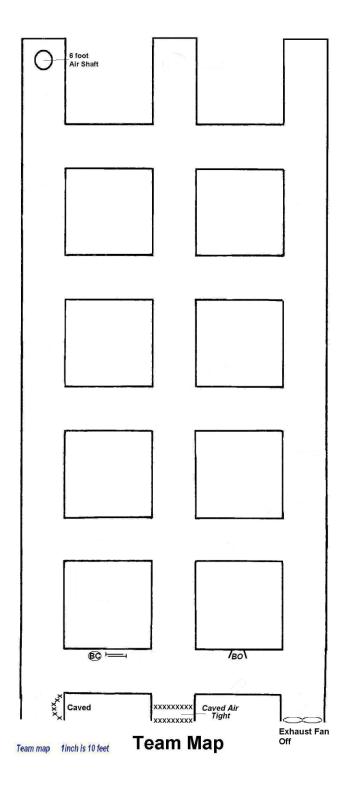
# ACCOUNT FOR ALL MISSING MINERS

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

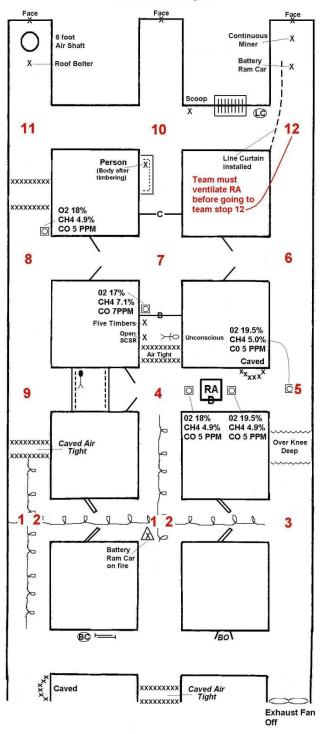
LINE CURTAINS CAN ONLY BE USED TO WING OUT A BARRICADE OR A FACE

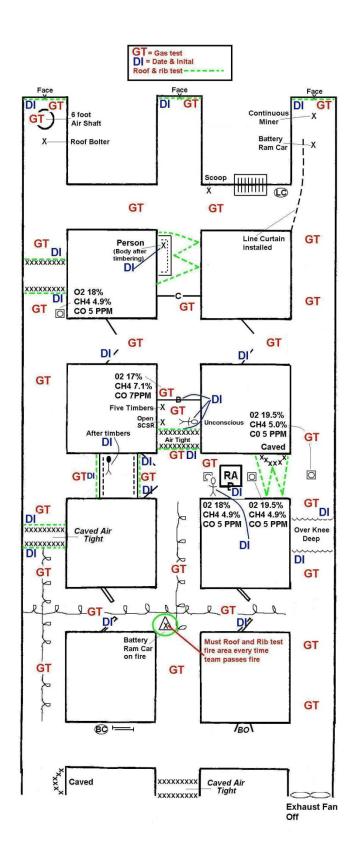
#### 2010 ACA Mine Rescue Contest

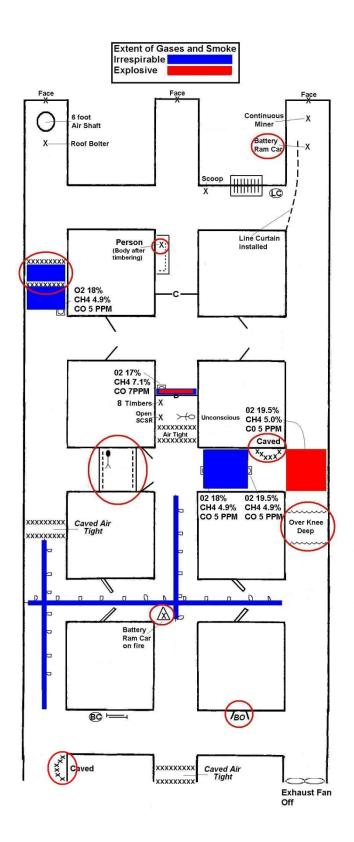




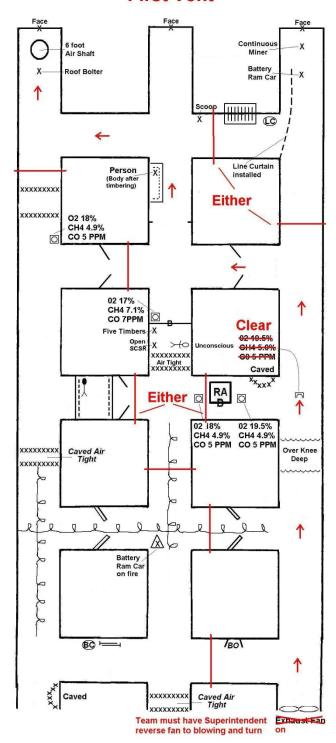
#### **Team Stops**



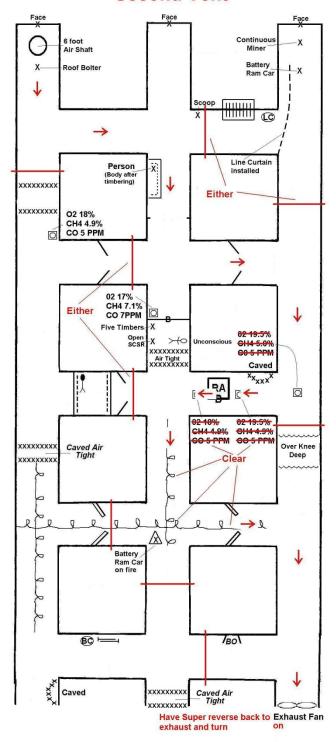




#### **First Vent**



#### **Second Vent**



#### **Third Vent** Continuous 6 foot Air Shaft Miner Battery Ram Car Roof Bolter Line Curt Person (Body after timbering) Х Must take down xxxxxxxx installed line 1 curtain before O2 18% CH4 4.9% CO 5 PPM this vent xxxxxxxx 02 17% CH4 7.1% CO 7PPM 1 Five Timbers >+0 Unconscious XXXXXXXXX Air Tight XXXXXXXXX Caved x<sub>xxx</sub>x RA O 0 XXXXXXX Over Knee Caved Air Tight xxxxxxxxx 2 Battery Ram Car on fire 1 **60** I /BO Caved Caved Air Tight xxxxxxxx Have Super reverse fan back to Exhaust Fah blowing and turn-

#### Timbering at end of problem Face Face Continuous 6 foot Air Shaft Miner Battery\_ Ram Car Roof Bolter Scoop X Line Curtain installed Person (Body after timbering) XXXXXXXX Head inby O2 18% CH4 4.9% CO 5 PPM xxxxxxxx 02 17% CH4 7.1% CO 7PPM Five Timbers 02 19.5% Open SCSR -X ≻<del>/</del>○ XXXXXXXXX Air Tight XXXXXXXXX Unconscious CH4 5.0% C0 5 PPM Caved $x_{x_{XX}}$ RA 0 02 18% 02 19.5% CH4 4.9% CH4 4.9% CO 5 PPM CO 5 PPM Can Timber from either side XXXXXXXX Caved Air Tight Over Knee XXXXXXXX Q 2 A Battery Ram Car on fire

/BO\

Exhaust Fan Off

Caved Air Tight

Caved

# 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 02 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 3<sup>rd</sup> vent
- Team cannot compare maps after 3<sup>rd</sup> vent
- Team must timber to missing person first then body in unsafe roof rib to rib at end of problem