# Coal Mine Mine Rescue Contest Delta, Colorado July 17<sup>th</sup> – 19<sup>th</sup>, 2012

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#### STATEMENT July 18th, 2012

You are currently located at a fresh air base established on the main intake at the mouth of the 1<sup>st</sup> Left Section.

Last night a crew of 7 mechanics went into the 1<sup>st</sup> Left Section to conduct routine maintenance. They were the only ones who entered the mine. About halfway into their shift the outside man said that he heard a loud bang and then felt a major flow of air and dust reverse itself back out of the main intake. The main intake only temporarily reversed itself and it has now returned to normal. The outside man has also tried to contact the 7 mechanics, but he has not heard anything from them.

The first mine rescue team to respond has successfully explored all areas of the mine except the 1<sup>st</sup> Left Section. They have set up this fresh air base at the mouth of the 1<sup>st</sup> Left Section.

This mine does not liberate a lot of methane, which was last measured at  $\frac{1}{2}$  million cubic feet per day. The roof conditions are fairly good and we are able to hold a smooth roof with our current 4' x 4' roof bolt pattern. We do have some water in the mine and the coal seam is 7 foot high.

The main fan is a blowing fan, it is currently on and it is guarded. The main fan is non-reversible, it cannot be turned off and cannot be stalled.

The main power is locked out and it is guarded.

We have a 6' ventilation shaft near the face of the #1 entry. We have occasionally used it as an exhaust shaft.

Guards are posted at all mine portals. All federal, state, local, union and company officials have been notified. We have a competent lifeline person to receive and give signals. The mine map is up to date. Back up mine rescue teams are also available.

Permanent stoppings cannot be moved.

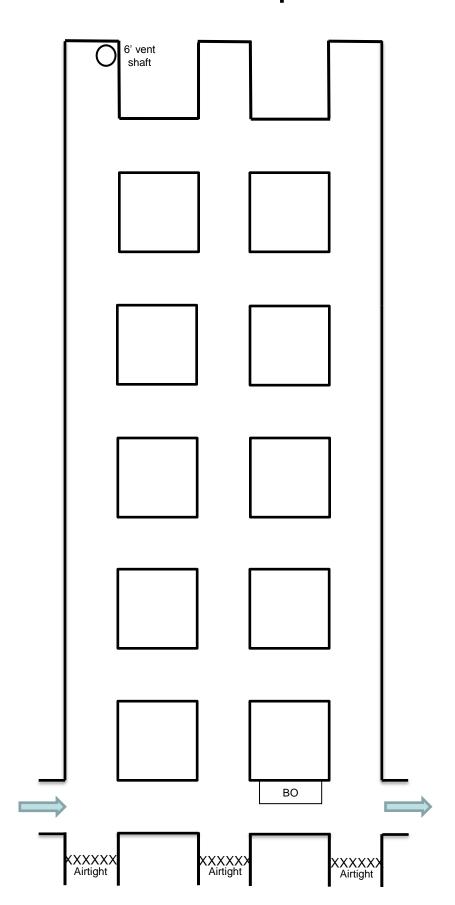
Written instructions and maps will be provided to you when you are ready to work and after you start the clock.

#### **PROBLEM**

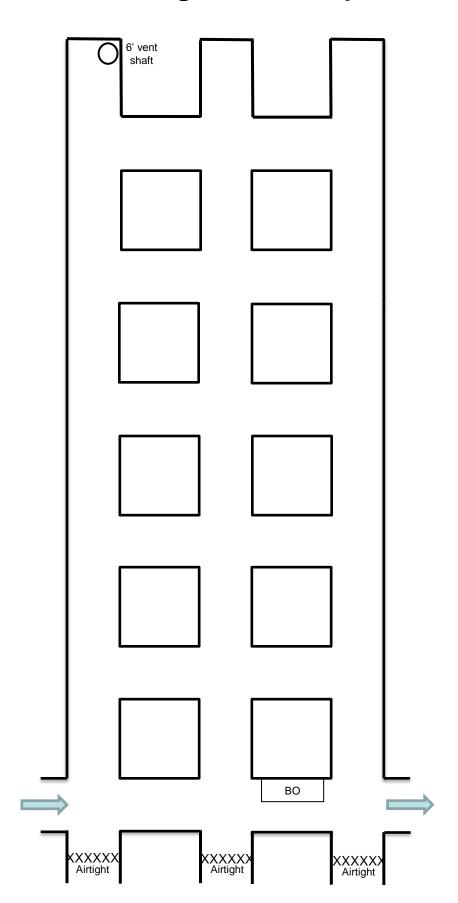
- When any team member is inby the FAB, no team member may ever travel more than 25' from the captain's or the No.5 team member's original stopping point.
- There is a 60 minute time limit to this problem.
- Account for all missing persons
- Bring all survivors to the fresh air base
- Explore all accessible areas of the mine that can be safely examined.

#### **GOOD LUCK!**

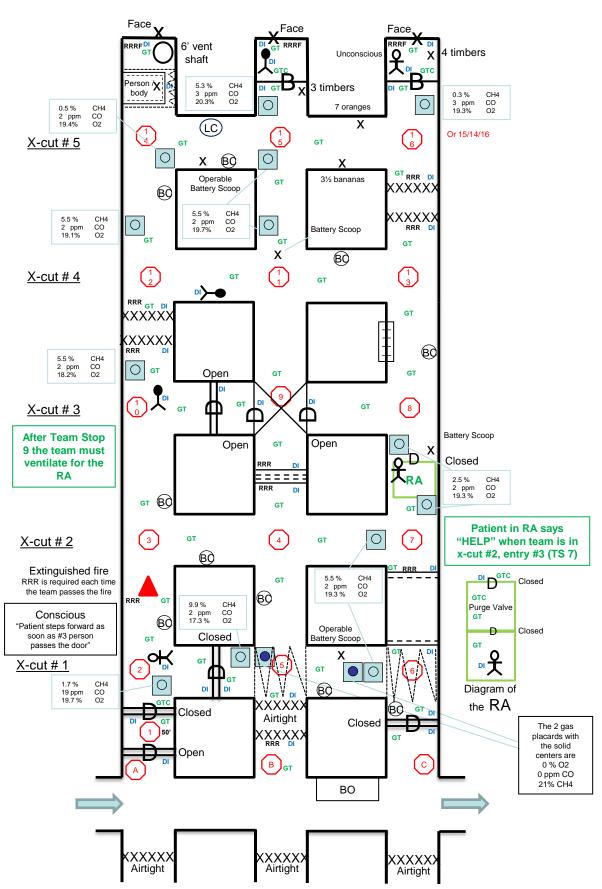
### **Team Map**



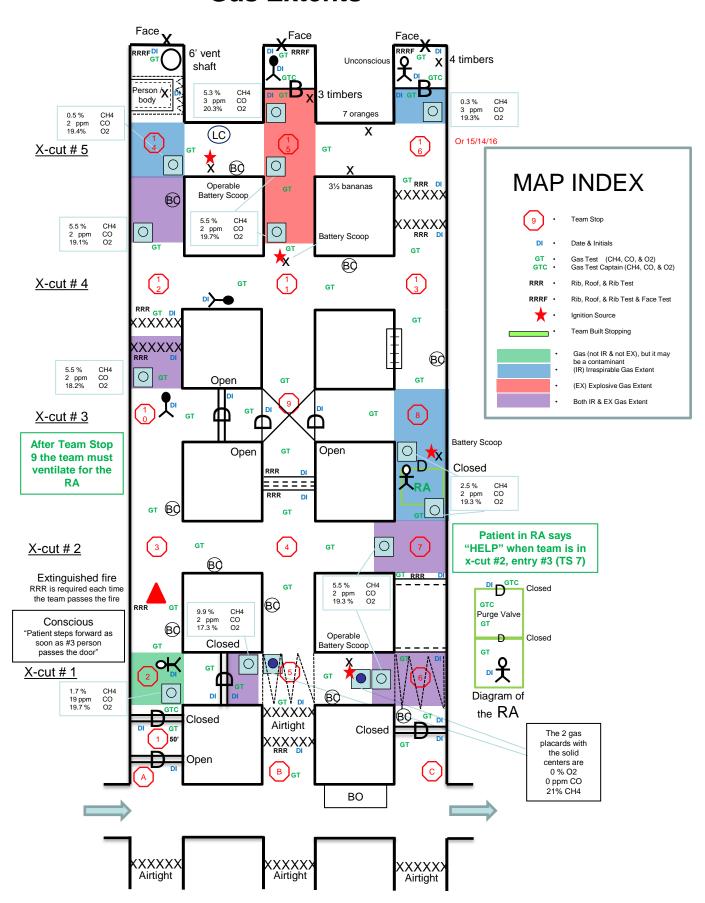
## **Briefing Officers Map**



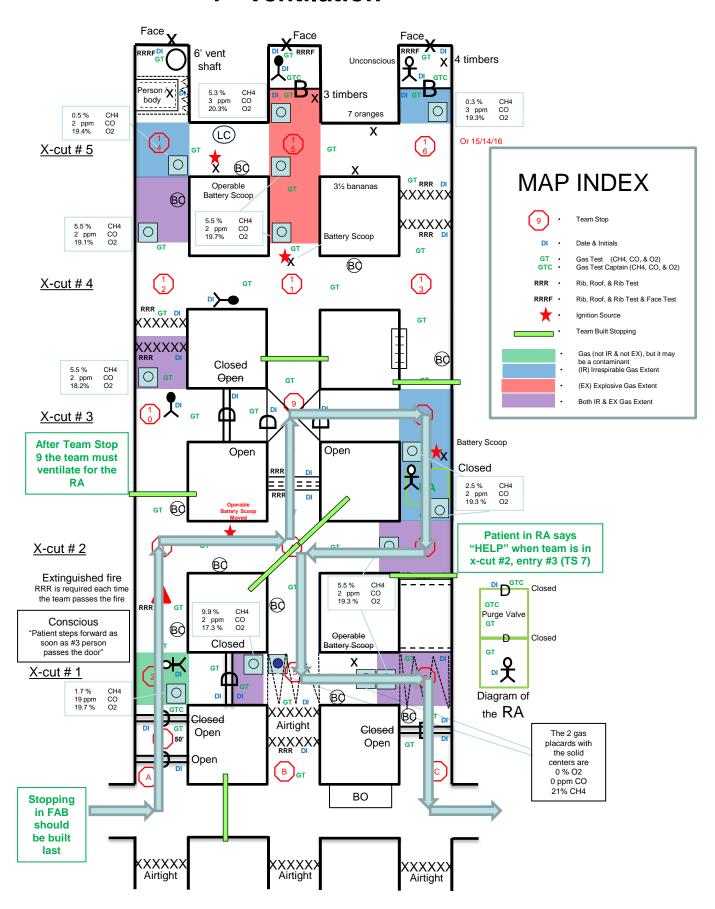
#### **Judges Map**



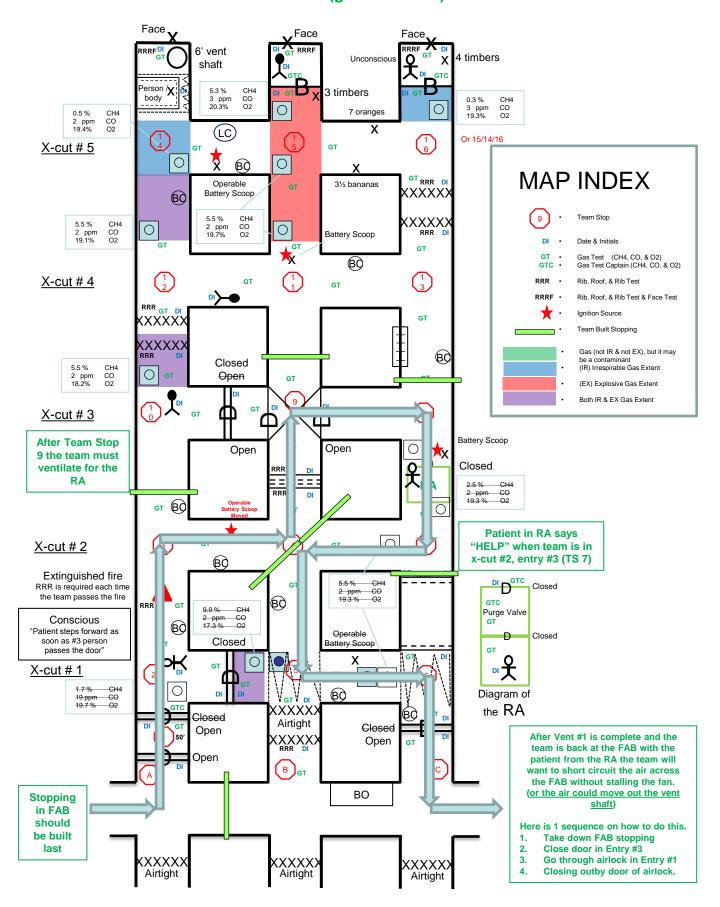
#### **Gas Extents**

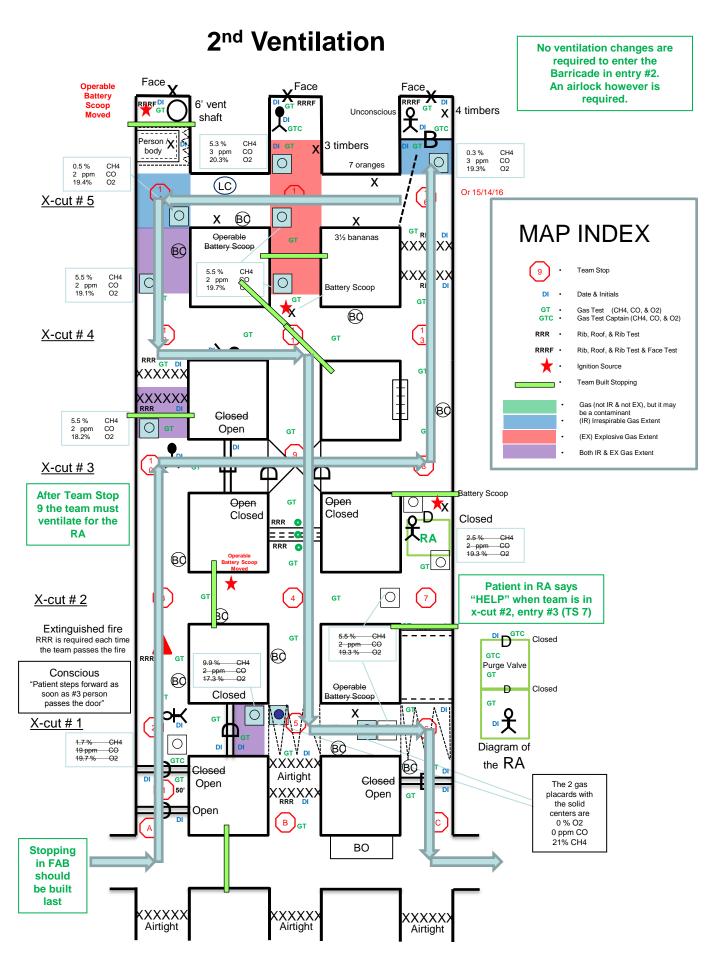


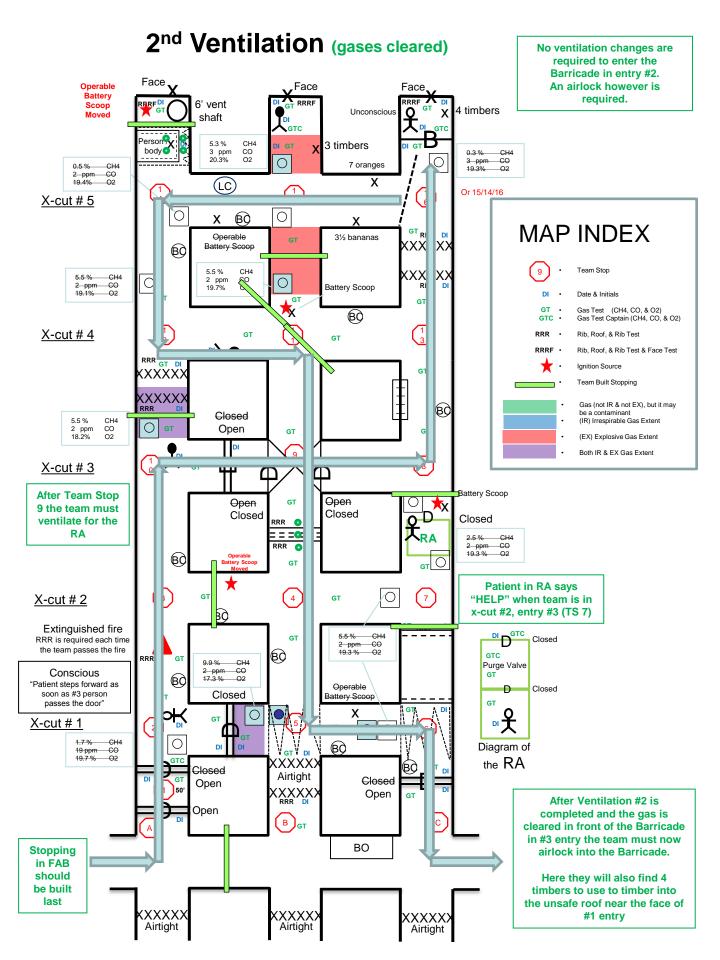
#### 1st Ventilation



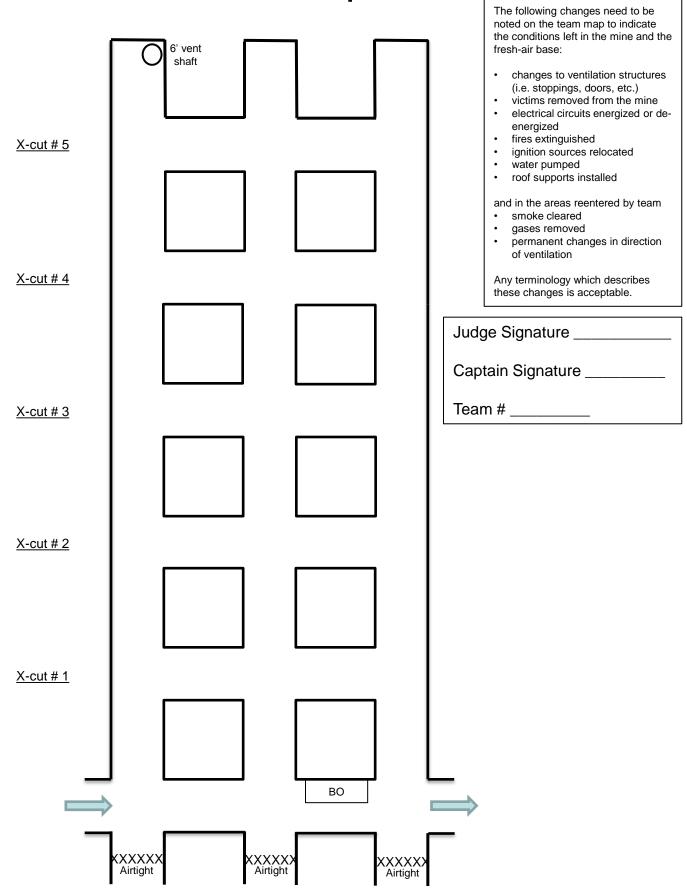
#### 1<sup>st</sup> Ventilation (gases cleared)







#### **Final Vent Map**



# Delta 2012 Basic Mine Layout

