2017 Indiana State Mine Rescue and Pre-Shift Contest

Mine Rescue Problem
2017 INDIANA STATE
MINE RESCUE STATEMENT

I am __________, Superintendent of the Federal #14 Mine. You are located on the surface of the mine. Last night a six (6) man crew entered the mine and proceeded to the #4 Unit to perform maintenance and set up to run coal. At 6:35 a.m. this morning a miner called to surface from the unit and said they were experiencing problems. No contact has been established with the miners since the call. At 6:50 a.m., two (2) miners made it to the bottom of the shaft and came out of the mine. The miners who came out said they could not find the other miners and had no contact with them.

The #4 Unit has experienced bad roof and rib conditions, water problems, and high concentrations of methane gas. All power going into the mine has been de-energized and locked out. Air pumps can be used if available.

The #4 Unit has been ventilated by a blowing fan that is in operation located at the Main Portal. The fan can be interchanged from blowing to exhausting, but cannot be stalled. We have been doing construction work on this unit as it is the bottom area for our new air shaft. There is compressed air and water discharge line installed to the bottom of the air shaft if needed.

All proper authorities have been notified, a command center has been established on the surface, back-up mine rescue teams are on mine property but cannot be used to perform work underground.

This is all the information we have available at this time.
EXPLORE THE MINE IN ITS ENTIRETY WHERE SAFE TO DO SO. VENTILATE THE MINE AND LEAVE THE MINE FOR BAREFACED EXPLORATION.

THE FAN(S) YOU ARE WORKING WITH CAN BE REVERSED, BUT CANNOT BE STALLED.

ACCOUNT FOR ALL MISSING PERSONS AND BRING ALL SURVIVORS TO THE FRESH AIR BASE.

THE TEAM MAY NOT CARRY MORE THAN TWO (2) BRATTICE CURTAINS AT ANY ONE TIME.

IF ANY PERMANENT STOPPINGS ARE ENCOUNTERED UNDERGROUND THEY CANNOT BE REMOVED OR USED ANYWHERE BESIDES THE LOCATION AT WHICH THEY ARE DISCOVERED.
2nd VENT MAP

4 Timbers
Battery Scoop

Requires 2 builds for intersection
5.8 % CH₄
6 PPM CO
15.2 % O₂

Face

Cleared
Hard Hat
Unconscious Shovel

5.0 % CH₄
5 PPM CO
16.5 % O₂

Battery Ram Car
Rock Dust

Battery Scoop

4 Timbers

25' of compressed
Air and Discharge Line from Surface

6.5 % CH₄
4 PPM CO
16.5 % O₂

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