

Southeast Regional Day 1 written background information

Thank you for answering our call for help. You are located at the underground fresh-air base of the East Tennessee #1 mine. The East Tennessee #1 mine is a new mine being developed to access zinc seams to the north. Last night on midnight shift we had an event that caused a disruption in power and lose of communication with the section. Since this is a new mine the midnight shift is a maintenance shift with only 2 miners working underground. Attempts were made through the communication system to contact the 2 missing miners with no response. The safety director and one other miner attempted to travel to the work area but had to return to the surface because of debris in the roadways and disruptions in ventilation. Mine rescue teams were called and have explored to within 4 crosscuts of the face. A fresh-air base was set up and ventilation established to the fresh-air base. The mine is ventilated by an exhaust fan located on the surface off the #1 entry. At this time air is traveling up the #3 entry across the fresh-air base and out the #1 entry. The mine has a history of bad roof conditions, water and methane. The engineering department has certified the maps accuracy. All state and federal agencies have been notified and are on site. Several mine rescue teams are on site to act as backup if needed. This is all the information I have at this time.

Thanks, and good luck!

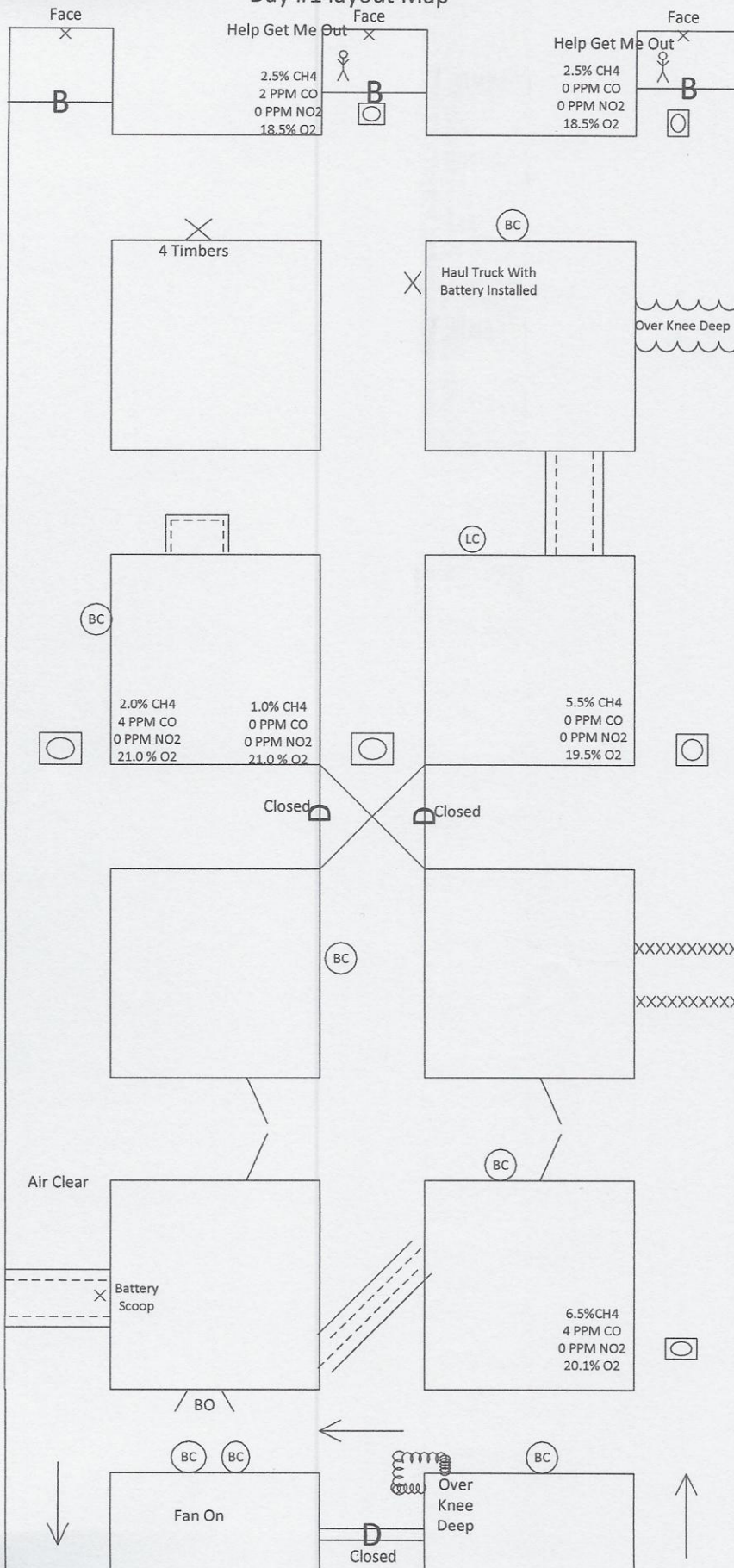
Southeast Regional Day 1 Team Field Written Information

- Explore the entire mine
- Account for all missing miners
- Bring all survivors to the fresh-air base
- The fan cannot be stopped, stalled or reversed
- You will have 70 minutes to complete the problem

2021 Tennessee Contest Day #1 layout Map

Working Order: _____

_____ Field



Face

Face

Face

Help Get Me Out

Help Get Me Out

2.5% CH4
2 PPM CO
0 PPM NO2
18.5% O2

2.5% CH4
0 PPM CO
0 PPM NO2
18.5% O2

4 Timbers

Haul Truck With
Battery Installed

Over Knee Deep

2.0% CH4
4 PPM CO
0 PPM NO2
21.0% O2

1.0% CH4
0 PPM CO
0 PPM NO2
21.0% O2

5.5% CH4
0 PPM CO
0 PPM NO2
19.5% O2

Closed

Closed

Air Clear

Battery
Scoop

BO

Fan On

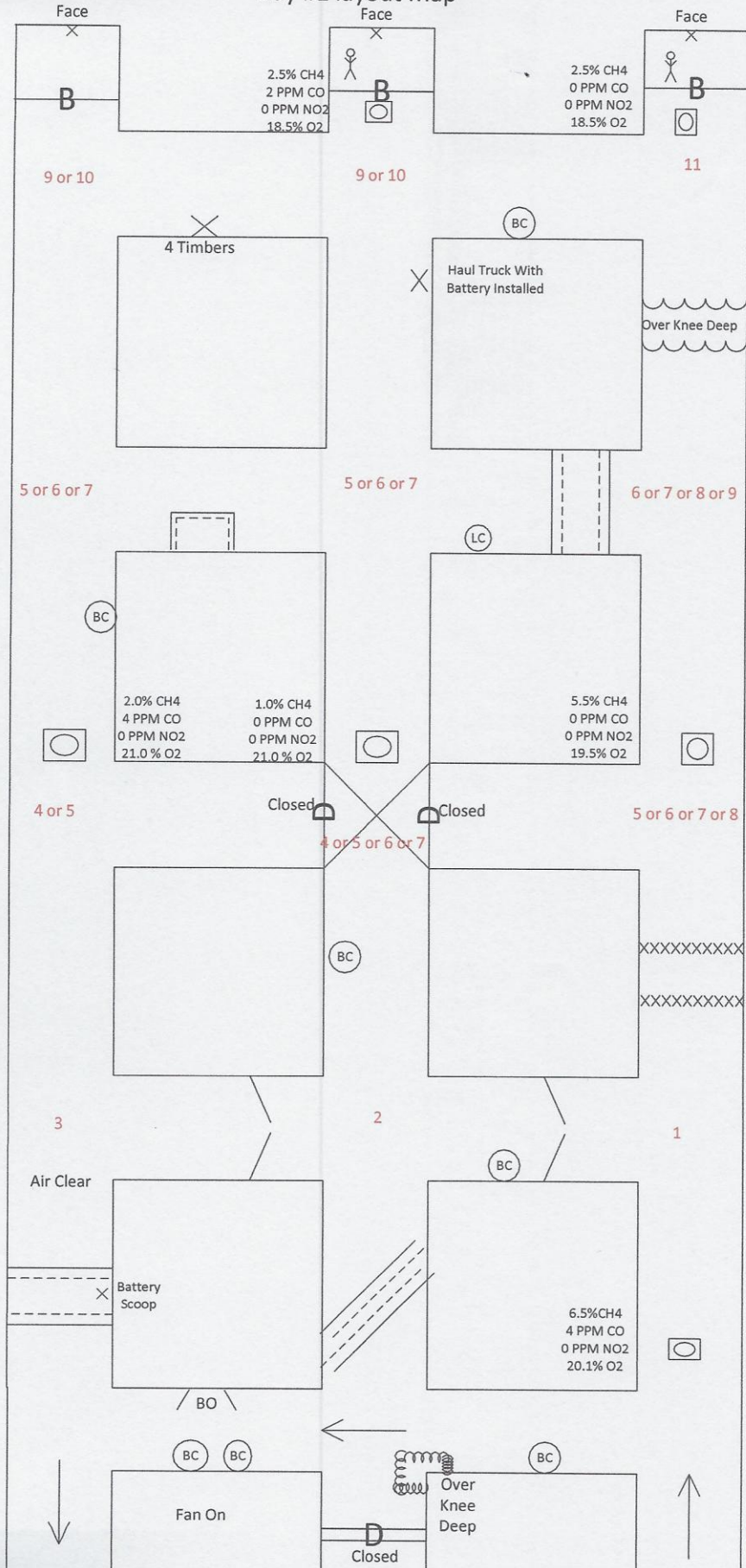
Over
Knee
Deep

Closed

2021 Tennessee Contest Day #1 layout Map

Working Order: _____

_____ Field



2021 Tennessee Contest Day #1 First Vent Map

Working Order: _____

Field

