

## Written Information for Southern West Virginia Contest

### Day #2

Thank you for responding to our call for help. You are located at the underground fresh-air base of the Big Lump mine. We had three employees working underground when we received a call from the section stating that they heard a loud noise and the mine was filling with low O<sub>2</sub> and high levels of CH<sub>4</sub>. Five minutes later the fan stalled and would not restart. We are no longer trying to restart the fan and all power has been removed from the mine. A mine rescue team entered the mine, traveled to within four crosscuts of the face; found water roofed in the #2 intersection and established this FAB. Air enters the mine from a blowing fan located on top of the air shaft located in the #2 entry, two crosscuts in by the fresh-air base. Under normal conditions air exits out #1, #2 and #3 entries. The Big Lump mine recently cut into the Academy #1 mine in the #1 entry to establish additional airways. However, the Academy #1 mine was in such bad condition that mine management decided to reseal the old mine. Seals were built in the #1 entry and in the crosscut 2X1. Sample pipes were installed in the seal in the 2X1 crosscut to monitor the atmosphere behind the seals. If the team needs to ventilate any area of the mine, the fan can be started by requesting through the team's BO. Power can be reestablished to the section distribution box if needed.

All State and Federal agencies are on site

Mine rescue teams are on site to act as backup

Thanks and good luck

# Southern West Virginia Contest

## Day #2 Written Statement

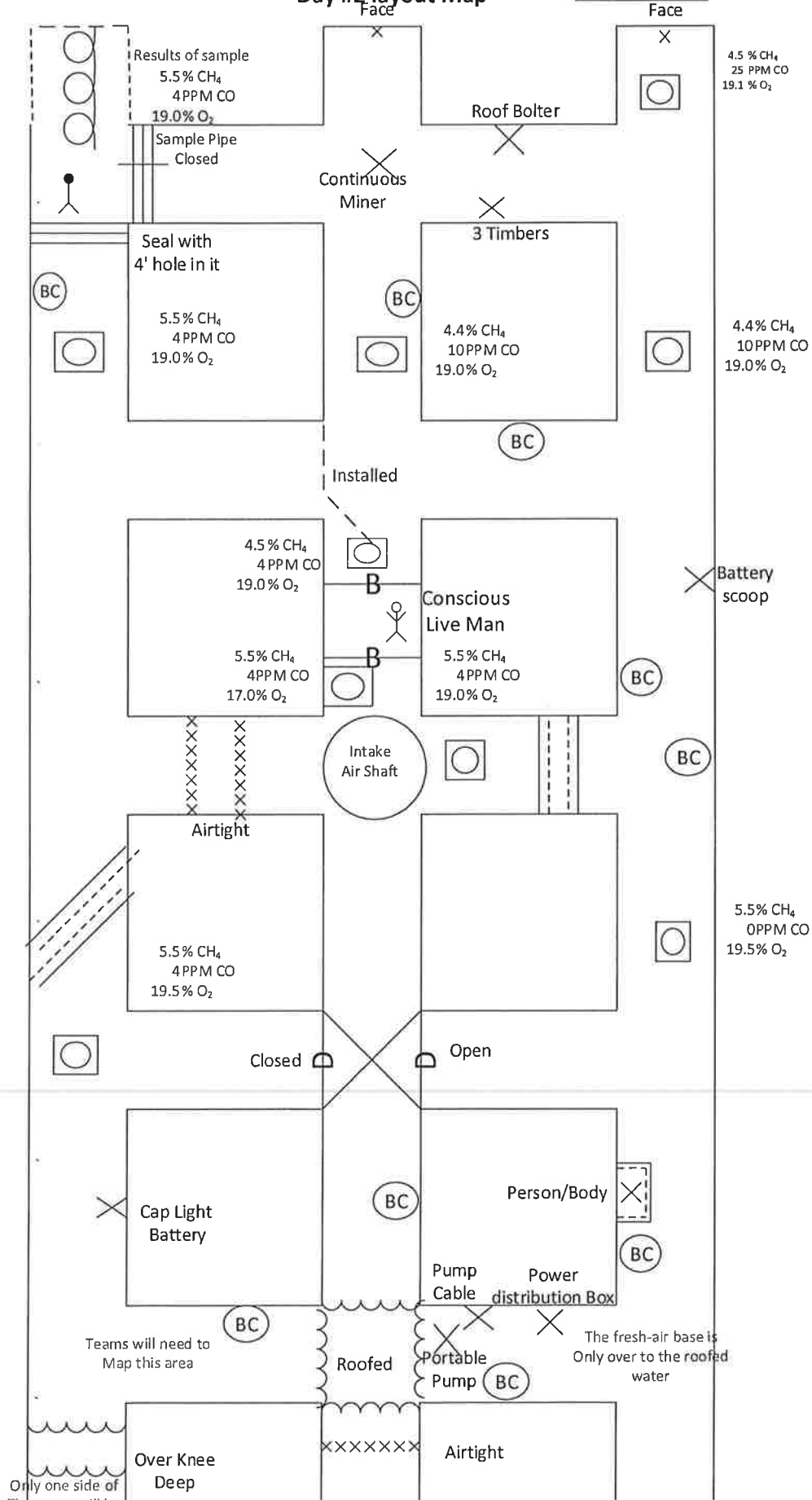
- Explore all areas of the mine needed to account for all missing miners
- Bring all survivors to the fresh-air base
- The fan can be controlled by requesting through the team BO
- The fan cannot be stalled or reversed

# 2019 Southern West Virginia

## Day #2 layout Map

Working Order: \_\_\_\_\_

Field



Only one side of The water will be On the map. The team will need to map the inby side

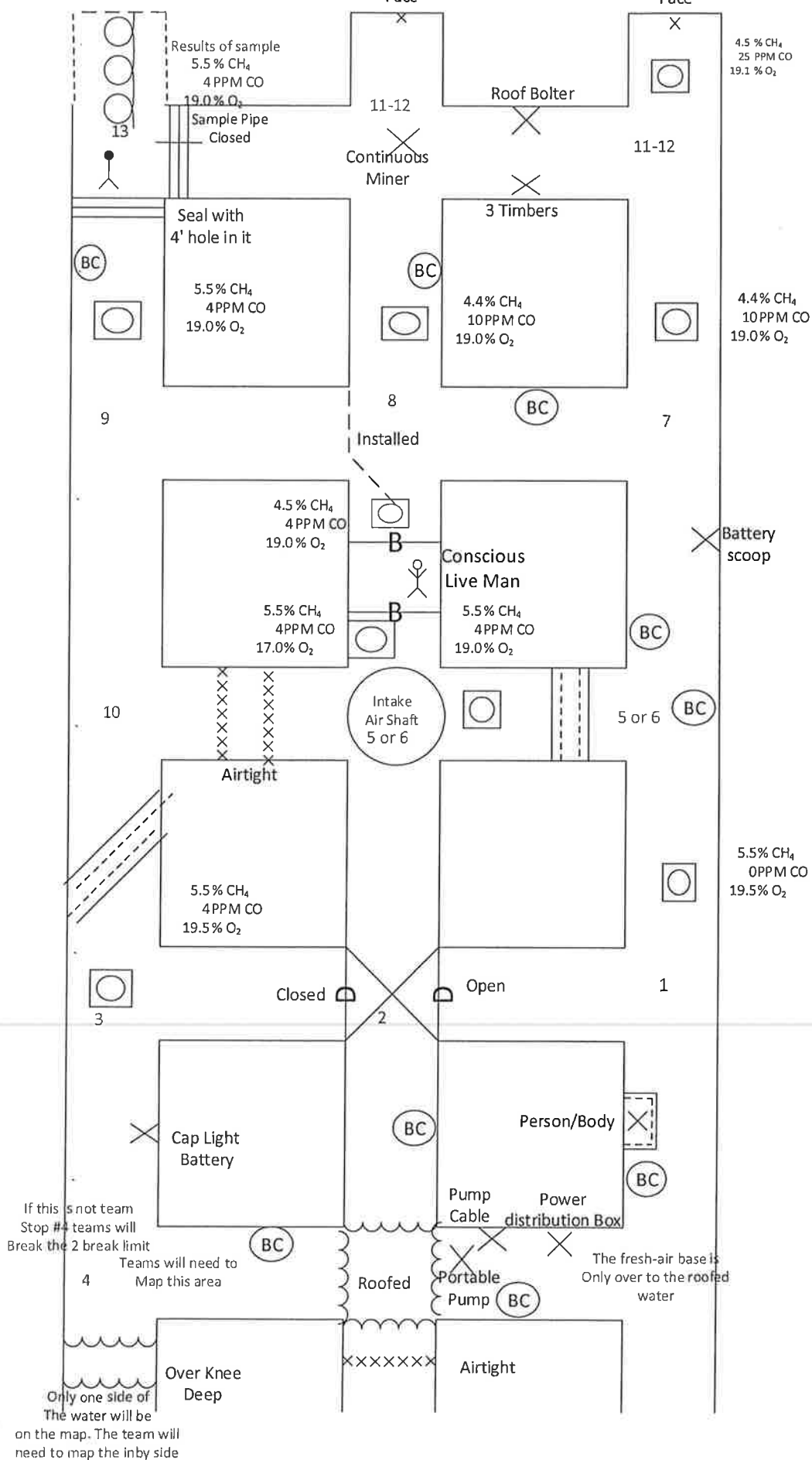
The fresh-air base is Only over to the roofed water

# 2019 Southern West Virginia

Working Order: \_\_\_\_\_

## Day #2 team Stops

Field

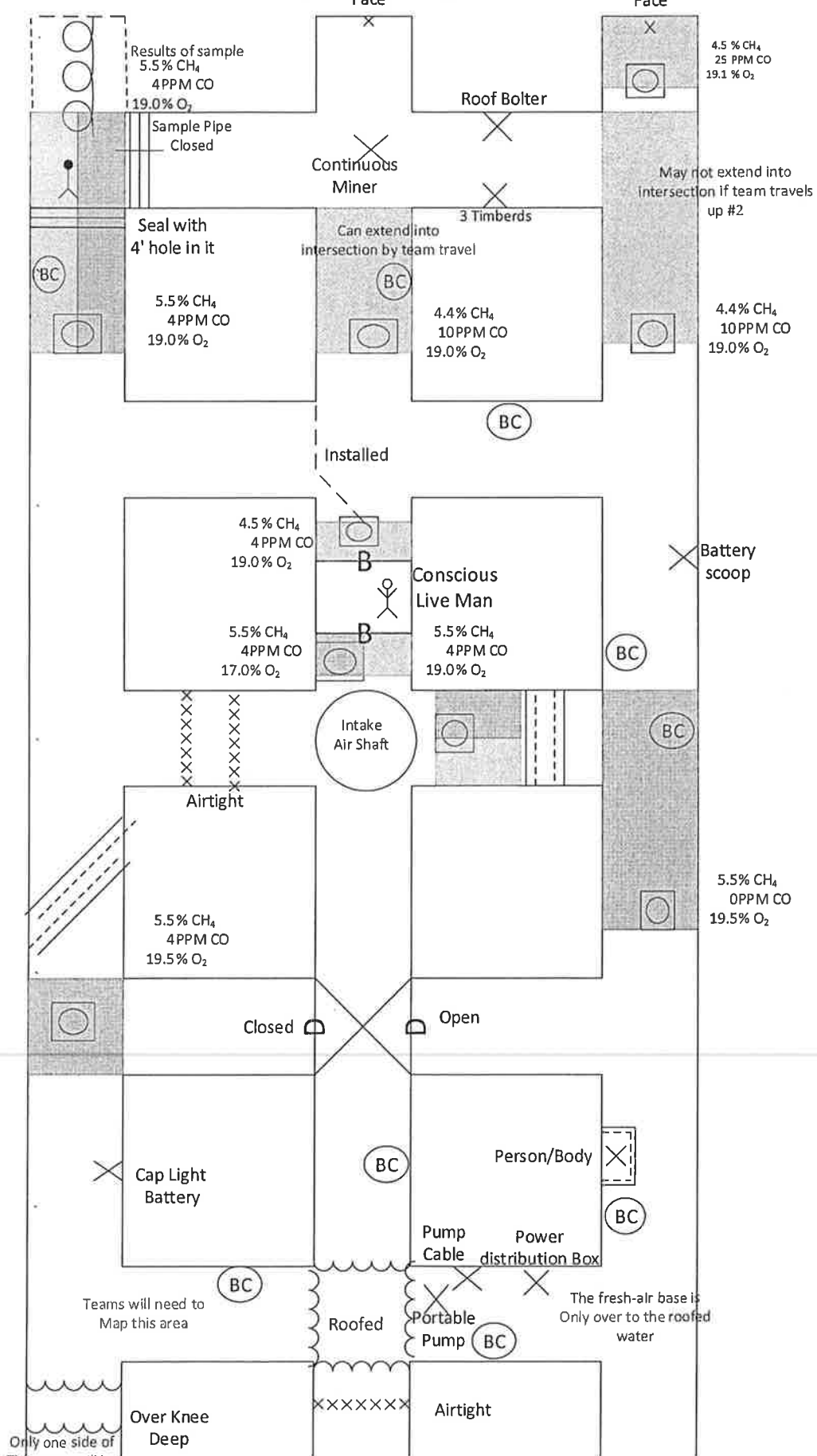


# 2019 Southern West Virginia

## Day #2 Extent of gases

Working Order: \_\_\_\_\_

Field



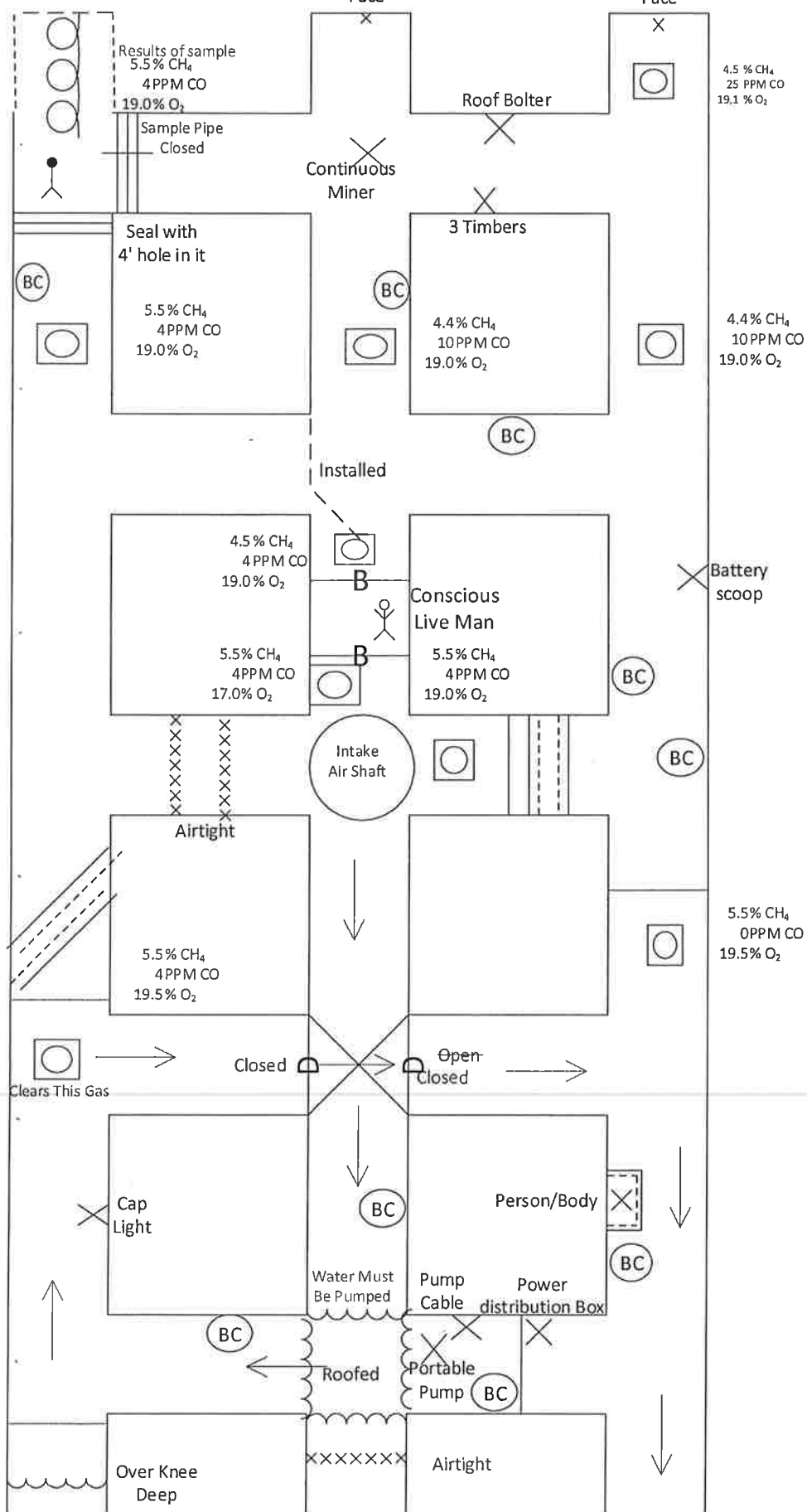
On the map. The team will need to map the inby side

2019 Southern West Virginia

Working Order: \_\_\_\_\_

Day #2 first Vent

Field

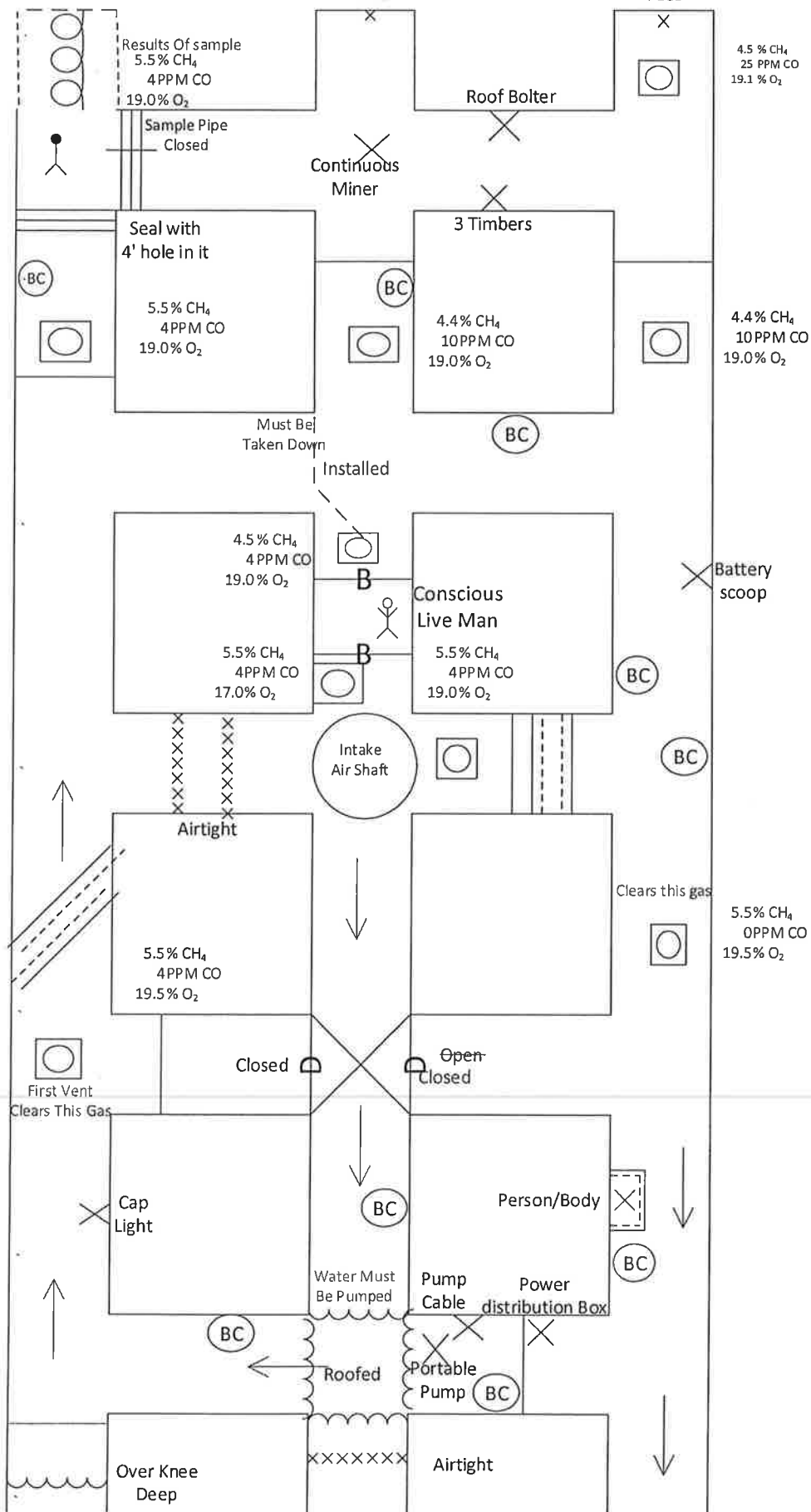


# 2019 Southern West Virginia

Working Order: \_\_\_\_\_

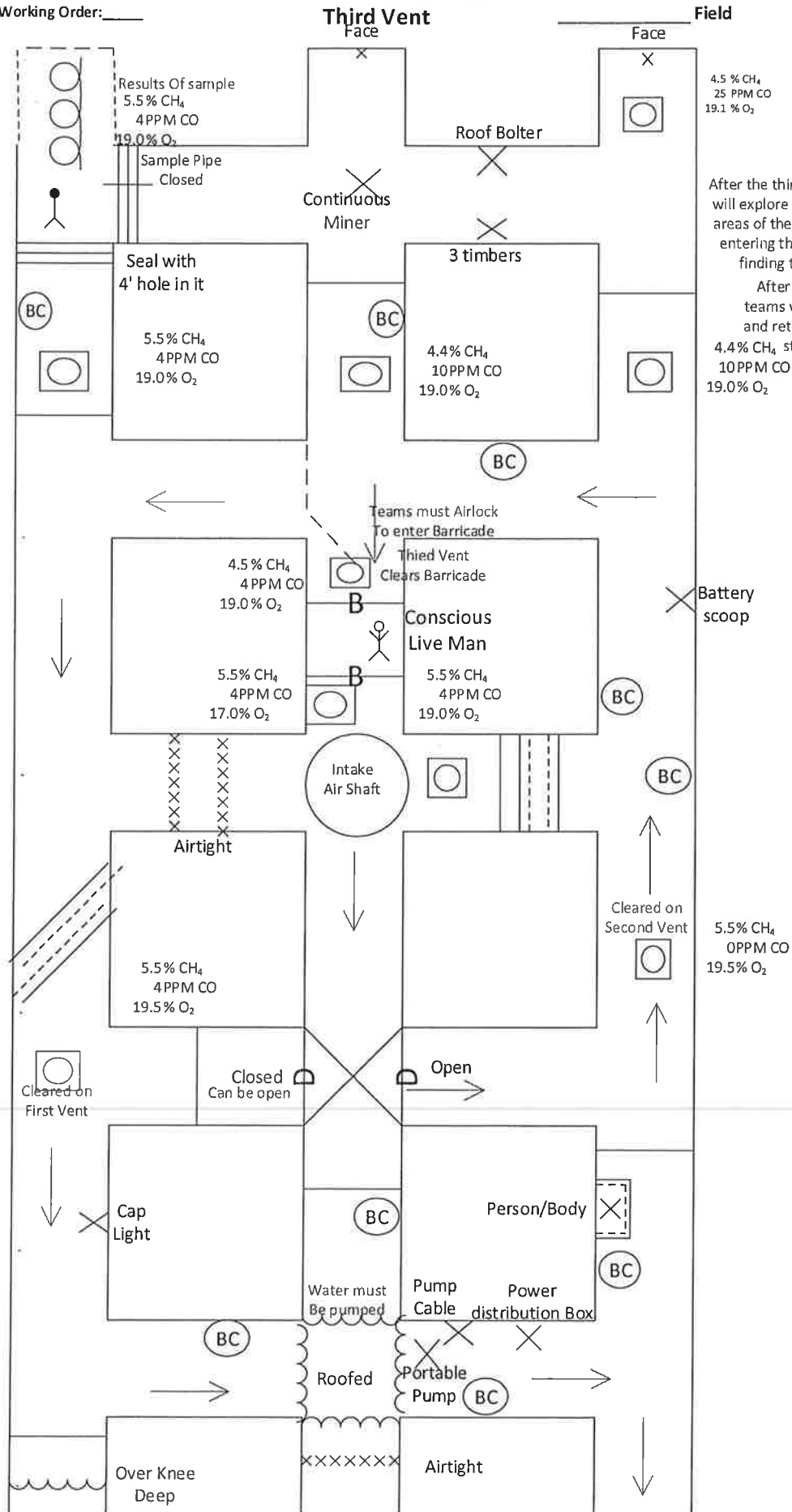
## Second Vent

Field



# 2019 Southern West Virginia

Working Order: \_\_\_\_\_

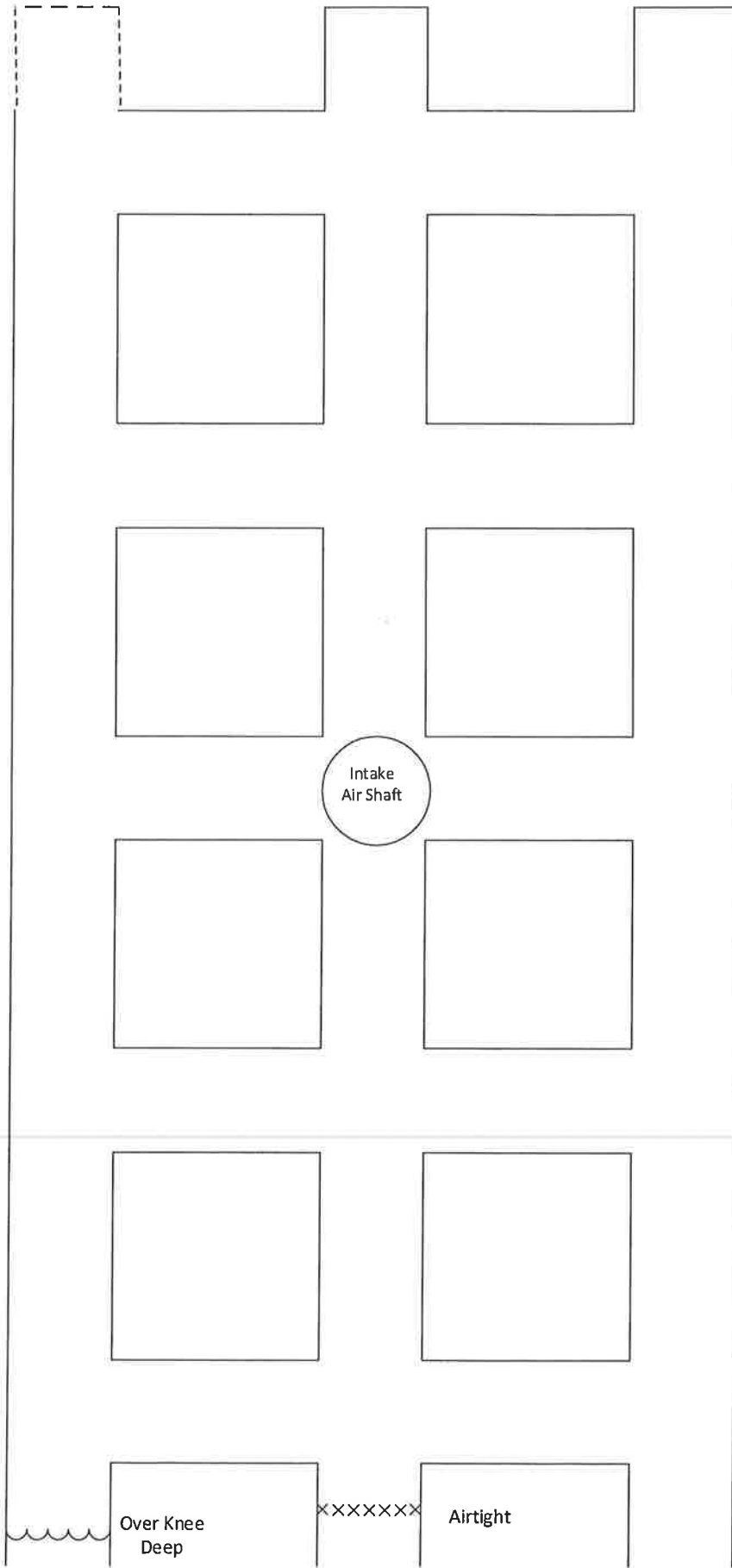




Working Order: \_\_\_\_\_

### 2019 Southern West Virginia Day #2 Final Vent Map

\_\_\_\_\_ Field



Intake  
Air Shaft

Over Knee  
Deep

XXXXXXXXXX

Airtight

Working Order: \_\_\_\_\_

### 2019 Southern West Virginia Day #2 Judges Tracking Map

\_\_\_\_\_ Field

