



2017  
HARLAN SAFETY DAYS  
MINE RESCUE CONTEST  
DAY 1

MH

**HARLAN SAFETY DAYS MINE RESCUE CONTEST**  
**SUPERINTENDENT STATEMENT DAY 1**  
**JULY 25, 2017**

Thank you for coming to help us. You are located on the surface at the top of the slope of the Har-Co #1 mine. This is a very large mine with multiple working sections and interconnected fans and air courses.

A mine rescue team was able to explore North Mains and they were stopped by unsafe roof in the #1 entry by water roofed in the #2 entry and caved in number 3 entry. Another team was able to explore South Mains and they were stopped by caved in the #1 entry by water roofed in the #2 entry and unsafe roof in number 3 entry. Both fans are currently off and they will ventilate through all areas of the mine and out the slope roadway.

When you reach the bottom of the slope you will be in the number 3 entry. The North mains will be to your right, the South mains will be to your left and a crosscut will be across the entry from the slope.

The mine has a history of bad roof, water and methane. The mine maps are up to date. We have a competent life line person to give and take life line signals if necessary.

When the team is traveling they can only carry 1 timber per working team member and they must carry their own timber in their hand. Brattice cloth and line curtain must be either carried in the hand or on the stretcher. No throwing, kicking, pitching etc. of timbers, water pump, brattice cloth or line curtains by the team members.

Please find the 5 missing miners that were in this area of the mine that you will be exploring. Thank you and good luck.

## **PROBLEM DAY 1**

**BOTH FANS ARE CURRENTLY NOT OPERATING.**

**DO NOT STALL EITHER FAN, AS IT WILL CAUSE DAMAGE TO THEM.**

**TO PREVENT STALLING ONE FAN HAS TO BE BLOWING AND THE OTHER EXHAUSTING WHEN USING BOTH FANS.**

**THE OUTBY AREAS IN THE SOUTH MAINS AND OUTBY AREAS OF THE NORTH MAINS HAVE BEEN EXPLORED AND IS SAFE TO VENTILATE THROUGH.**

**ACCOUNT FOR ALL 5 MISSING MINERS THAT ARE IN THE AREA YOU ARE EXPLORING AND BRING SURVIVORS TO THE SURFACE.**

**EXPLORE ALL AREAS OF THE MINE THAT CAN BE DONE SAFELY.**

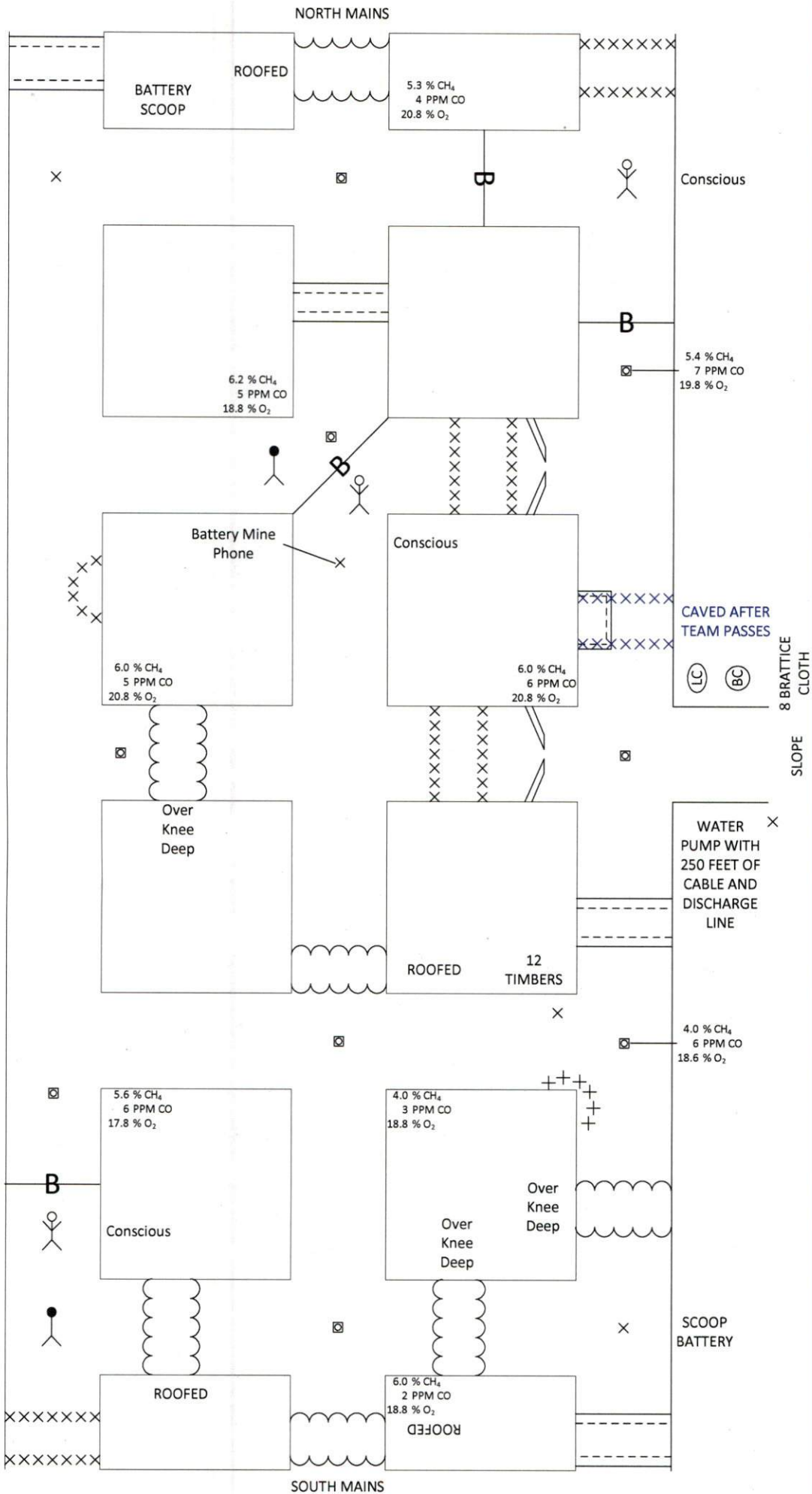
# **PATIENT STATEMENT 1**

**HELP!! GET ME OUT OF HERE.**

## **PATIENT STATEMENT 2**

**HELP!! I WANT OUT OF HERE, I  
AM HAVING A PANIC ATTACK.**

HARLAN SAFETY DAYS 2017 DAY 1 PROBLEM MAP



# HARLAN SAFETY DAYS MINE RESCUE CONTEST DAY 1 JUDGES BRIEFING

Slope GT

Team Stop 1

Team Check

Crosscut between 2 & 3 DI stopping GT DI RR at caved

Inby GT RR Zig Zag at unsafe roof.

Outby GT DI RR

Team Stop 2

Cave the area behind the number 5 person as soon as they stop and inform the team.

Inby GT DI

Crosscut between 2 & 3 DI stopping GT DI RR at caved

Team Stop 3

Enter barricade GT

Touch patient DI and put under oxygen by the time they reach any low O<sub>2</sub> since he will have to travel with the team as they explore. Also keep a watch on the patient if the team places a CAREvent on them to make sure he is OK and it does not run out of oxygen.

Inby GT DI RR

Crosscut between 2 and 3 GT DI

Team Stop 4

Go thru barricade GT

Inby GT DI

Crosscut between 1 & 2 GT

Outby RR DI RR

Team Stop 5

Inby GT DI RR

Outby GT

Team Stop 6

Crosscut between 1 & 2 GT Touch Body DI

Patient 1 reads Statement as soon as captain gets to body.

Outby GT RR Zig Zag at Caved

Team Stop 7

Barricade GT DI

Inby GT DI RR

Team Stop 8

Crosscut between 1 & 2 GT DI

Outby GT

Team Stop 9

Patient 2 reads statement

Barricade GT DI

Crosscut between 1 & 2 GT

Team Stop 10

Outby GT

Inby GT DI

Crosscut between 2 & 3 GT begin RR Zig Zag

Team Stop 11

RR intersection Zig Zag

Outby GT DI

Inby GT DI RR

Set timbers to get out.

Vent 1

Continue Team Stop 7

Enter Barricade GT

Touch patient assess DI remove to surface.

Crosscut between 2 & 3 GT DI RR

Outby GT

Team Stop 12

Crosscut between 1 & 2 GT DI

Crosscut between 2 & 3 GT DI RR

Outby GT DI

Pump 1

Vent 2

Team Stop 13

Enter barricade GT

Touch Patient Assess, DI remove to surface

Body touch DI

Crosscut between 2 & 3 GT DI

Outby GT DI RR

Team Stop 14

Crosscut between 1 & 2 GT DI

Corsscut between 2 & 3 GT DI

Outby GT DI

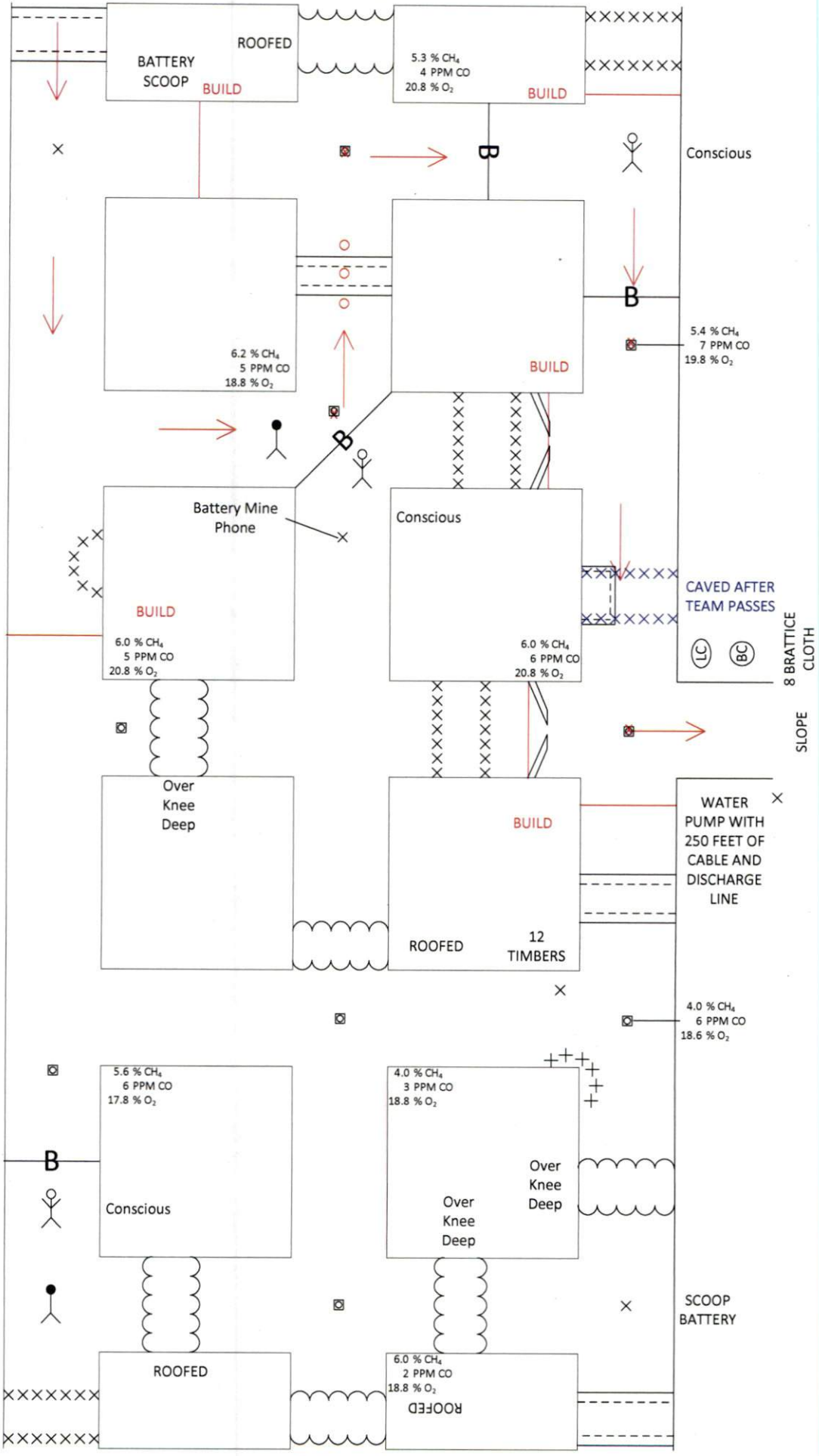
STOP CLOCK



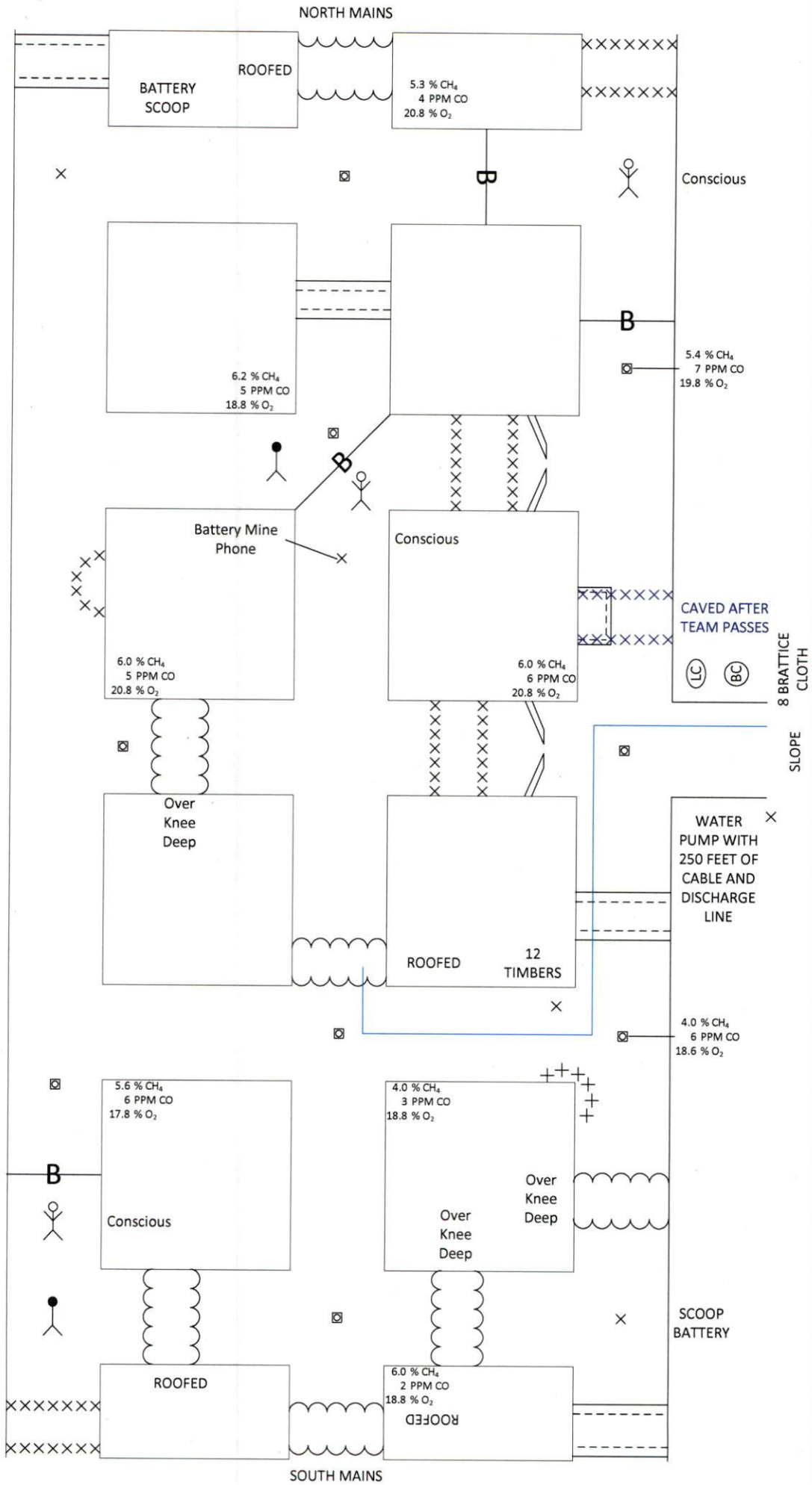
FAN BLOWING

NORTH MAINS

HARLAN SAFETY DAYS 2017 DAY 1 VENT 1



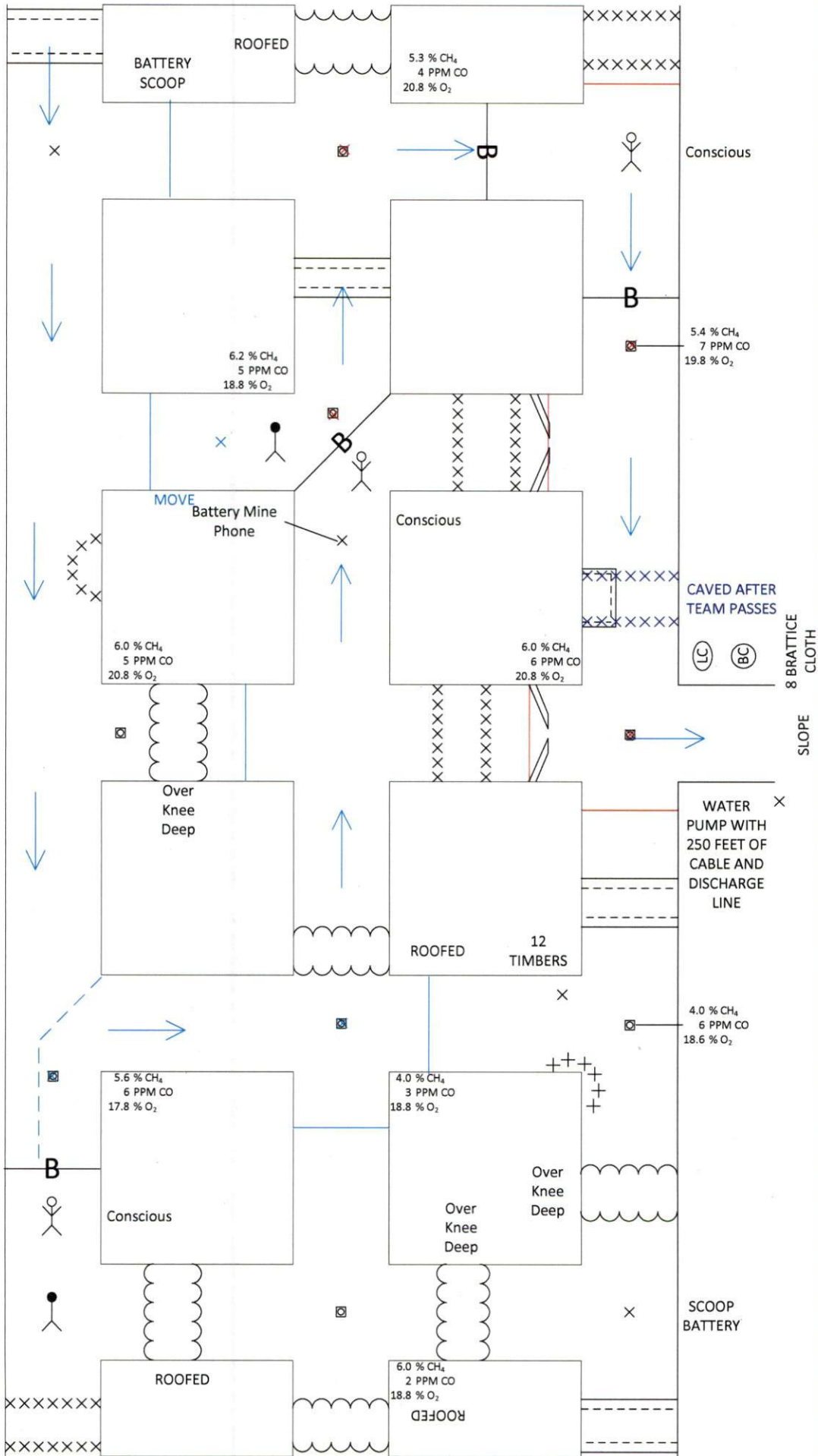
HARLAN SAFETY DAYS 2017 DAY 1 PUMP 1



FAN BLOWING

NORTH MAINS

HARLAN SAFETY DAYS 2017 DAY 1 VENT 2



NORTH MAINS

FAN ON \_\_\_ OFF \_\_\_  
BLOWING \_\_\_  
EXHAUSTING \_\_\_

5.3 % CH<sub>4</sub> Retest  
4 PPM CO Y \_\_\_ N \_\_\_  
20.8 % O<sub>2</sub>



Retest  
Y \_\_\_ N \_\_\_  
6.2 % CH<sub>4</sub>  
5 PPM CO  
18.8 % O<sub>2</sub>



5.4 % CH<sub>4</sub>  
7 PPM CO  
19.8 % O<sub>2</sub>

Retest  
Y \_\_\_ N \_\_\_

LOCATION OF BATTERY  
MINE PHONE  
6.0 % CH<sub>4</sub> Retest  
5 PPM CO Y \_\_\_ N \_\_\_  
20.8 % O<sub>2</sub>

Retest  
Y \_\_\_ N \_\_\_  
6.0 % CH<sub>4</sub>  
6 PPM CO  
20.8 % O<sub>2</sub>



5.6 % CH<sub>4</sub>  
6 PPM CO  
17.8 % O<sub>2</sub>  
Retest  
Y \_\_\_ N \_\_\_

4.0 % CH<sub>4</sub>  
3 PPM CO  
18.8 % O<sub>2</sub>  
Retest  
Y \_\_\_ N \_\_\_



Retest  
Y \_\_\_ N \_\_\_

4.0 % CH<sub>4</sub>  
6 PPM CO  
18.6 % O<sub>2</sub>

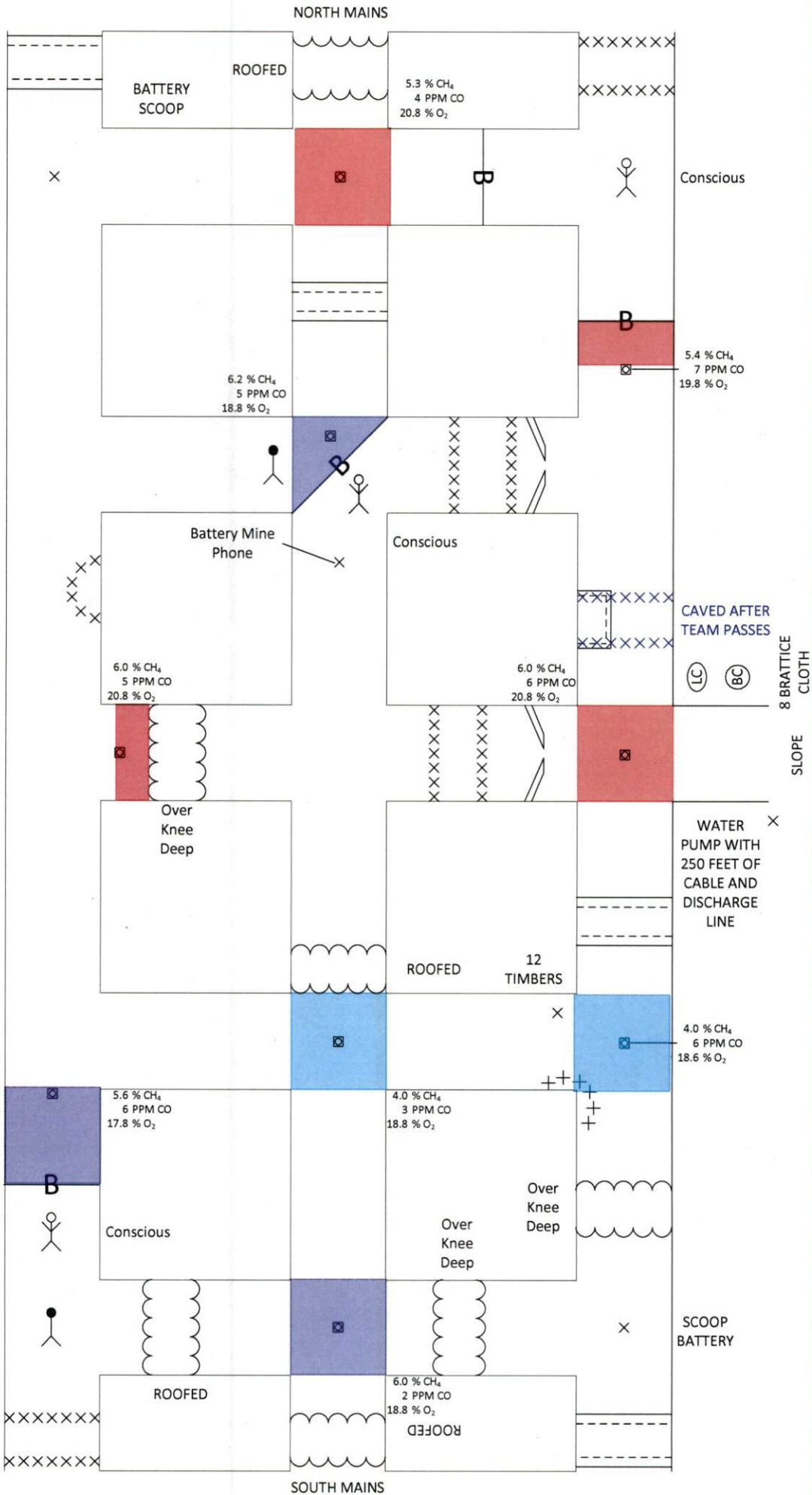
FAN ON \_\_\_ OFF \_\_\_  
BLOWING \_\_\_  
EXHAUSTING \_\_\_

6.0 % CH<sub>4</sub> Retest  
2 PPM CO Y \_\_\_ N \_\_\_  
18.8 % O<sub>2</sub>

SOUTH MAINS

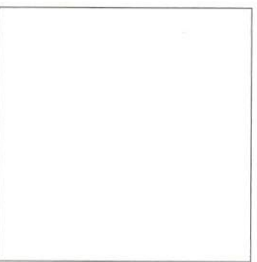
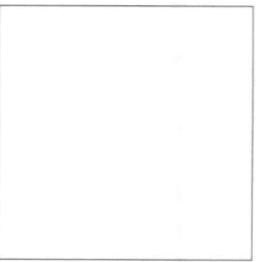
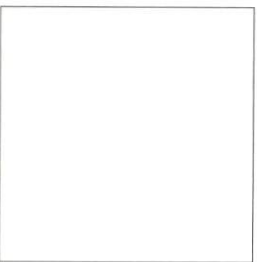
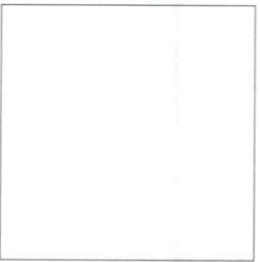
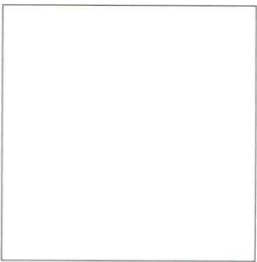
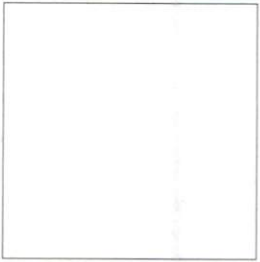
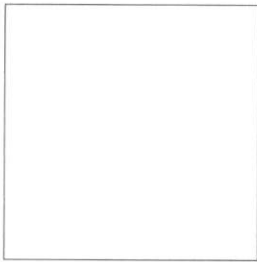
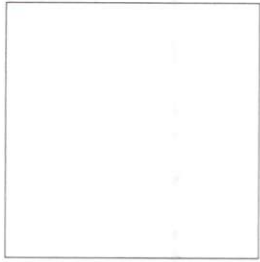
SLOPE

HARLAN SAFETY DAYS 2017 DAY 1 EXTENT OF GASES



HARLAN SAFETY DAYS 2017 DAY 1 BLANK MAP

NORTH MAINS



SOUTH MAINS

SLOPE

HARLAN SAFETY DAYS 2017 DAY 1 TEAM MAP

