



2017
KMI-KENTUCKY STATE
MINE RESCUE CONTEST
DAY 2

KMI/KENTUCKY STATE MINE RESCUE CONTEST
SUPERINTENDENT STATEMENT DAY 1 & 2
AUGUST 23 & 24, 2017

Thank you for coming to help us. You are located the fresh air base of the Lex-Co #1 mine.

A mine rescue team was able to explore and set up the fresh air base. There is an outby fan and a safe intake and return that can be used for ventilation outby the fresh air base.

There is a divided shaft in the last open crosscut that is safe to use either side to ventilate through and a fan is installed at the top of the intake shaft.

There are airlocks built inby the fresh air base and must be maintained to prevent unattended ventilation through the mine. If running, either fan will ventilate through the area if not blocked.

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.

Thank you and good luck.

PROBLEM DAY 2

THE OUTBY FAN VENTILATING THE FRESH AIR BASE IS EXHAUSTING ONLY AND CAN NOT BE SHUT OFF.

THE SHAFT FAN IS OFF AND CAN BE STARTED BLOWING OR EXHAUSTING AS NEEDED.

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

TO PREVENT STALLING WHEN USING BOTH FANS THE OUTBY FAN HAS TO BE EXHAUSTING AND THE SHAFT FAN HAS TO BE BLOWING.

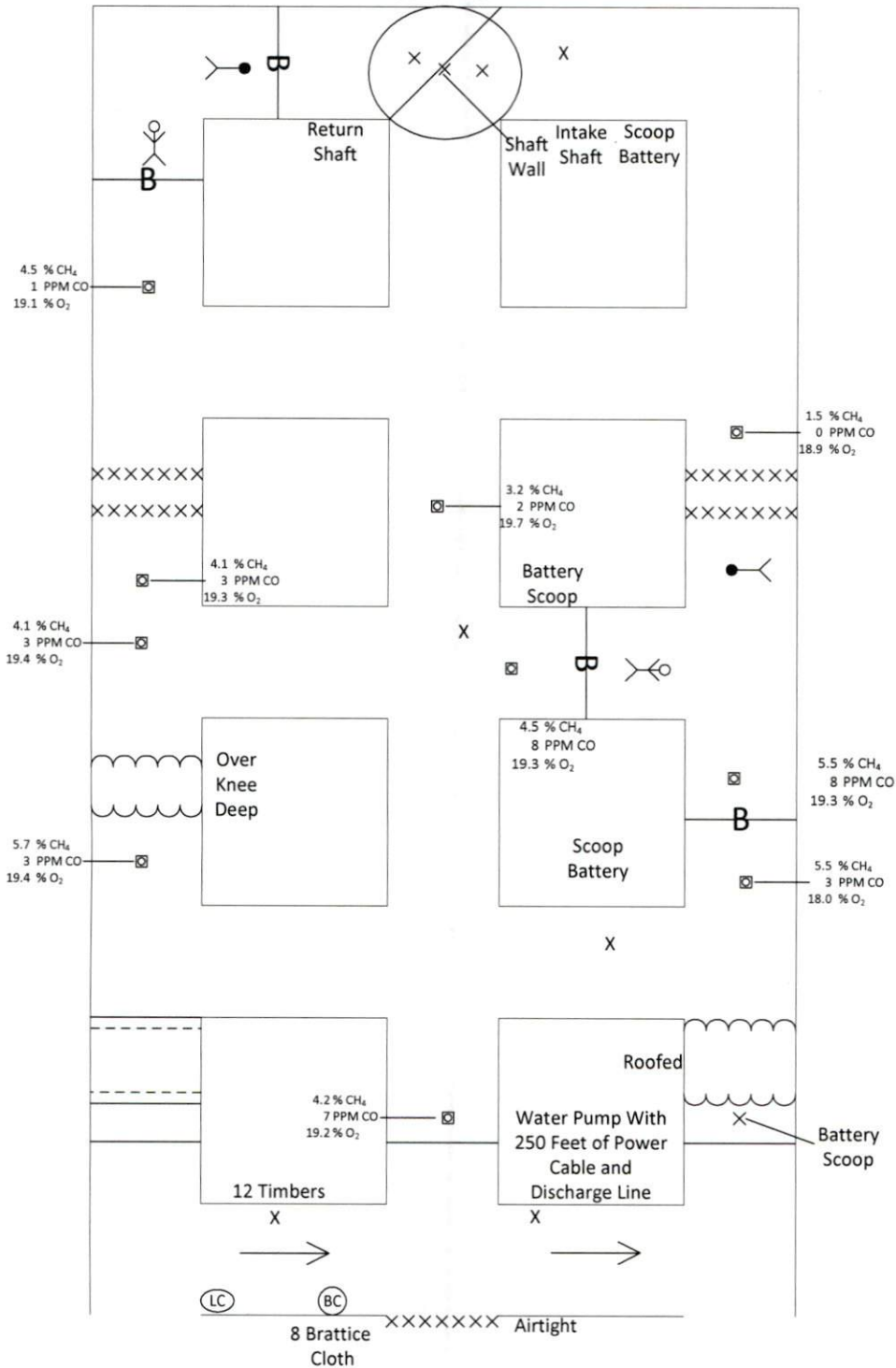
ACCOUNT FOR ALL 4 MISSING MINERS THAT ARE IN THE AREA YOU ARE EXPLORING AND BRING SURVIVORS TO THE FAB.

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

PATIENT STATEMENT 1

HELP!! GET ME OUT OF HERE.

KMI 2017 Day 2
PROBLEM MAP



KMI/KENTUCKY STATE MINE RESCUE CONTEST DAY 2

JUDGES BRIEFING

Number 1 entry GT DI Airlock GT inby stopping DI

Number 2 entry GT DI Airlock GT inby stopping DI

Number 3 entry GT DI Airlock GT inby stopping DI

#1 Entry the team can make inby the stopping without advancing team. DI GT RR at unsafe roof.

#3 Entry the team can make inby the stopping without advancing team. DI GT at water roofed.

Team Stop before breaching stopping.

Team Check

Team Stop 1

Crosscut between 2 & 3 GT

Crosscut between 1 & 2 GT

Inby GT

Team Stop 2

Intersection RR Zig Zag

Inby GT DI

Outby GT DI

Team Stop 3

Inby GT DI

Outby GT DI

Team Stop 4

Patient 1 reads statement

Inby GT

Crosscut between 2 & 3 GT DI

Crosscut between 1 & 2 GT

Team Stop 5
Inby GT DI RR
Outby GT DI

Pump 1
Vent 1
Vent 2

Team Stop 6
Entering barricade GT
Touch Patient Assess take to FAB
Outby GT DI
Touch body DI
Inby GT DI RR

Team Stop 7
Inby GT
Crosscut between 1 & 2 GT
Crosscut between 2 & 3 GT

Team Stop 8
Inby GT DI
Outby GT DI RR

Team Stop 9
Inby GT
Outby GT DI RR

Team Stop 10
Crosscut between 2 & 3 GT

Team Stop 11
Shaft wall DI
Outby GT

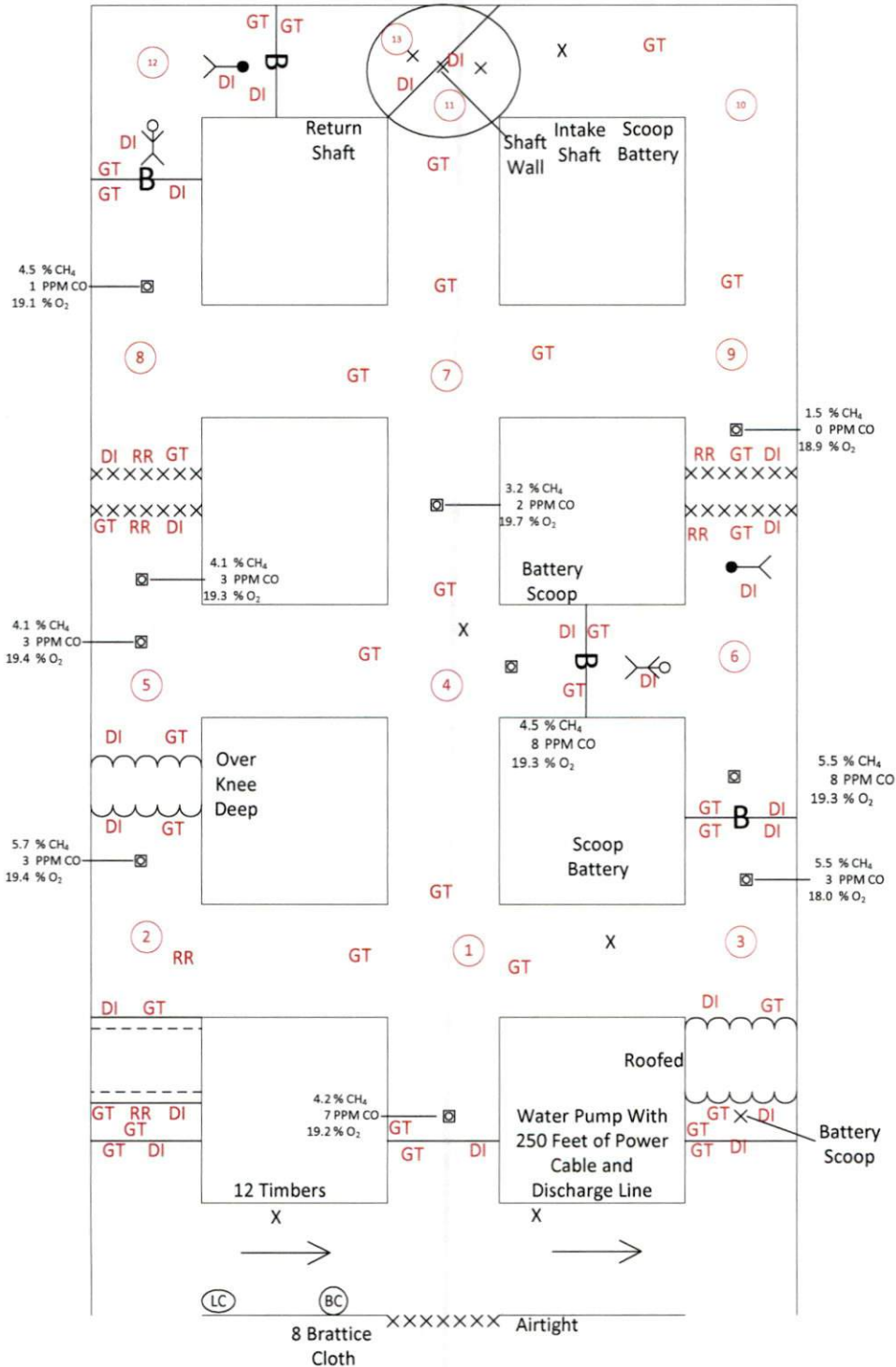
Vent 3
Vent 4

Team Stop 12
Entering barricade GT
Touch Patient Assess DI take to FAB
Body touch DI
Crosscut between 1 & 2 GT DI

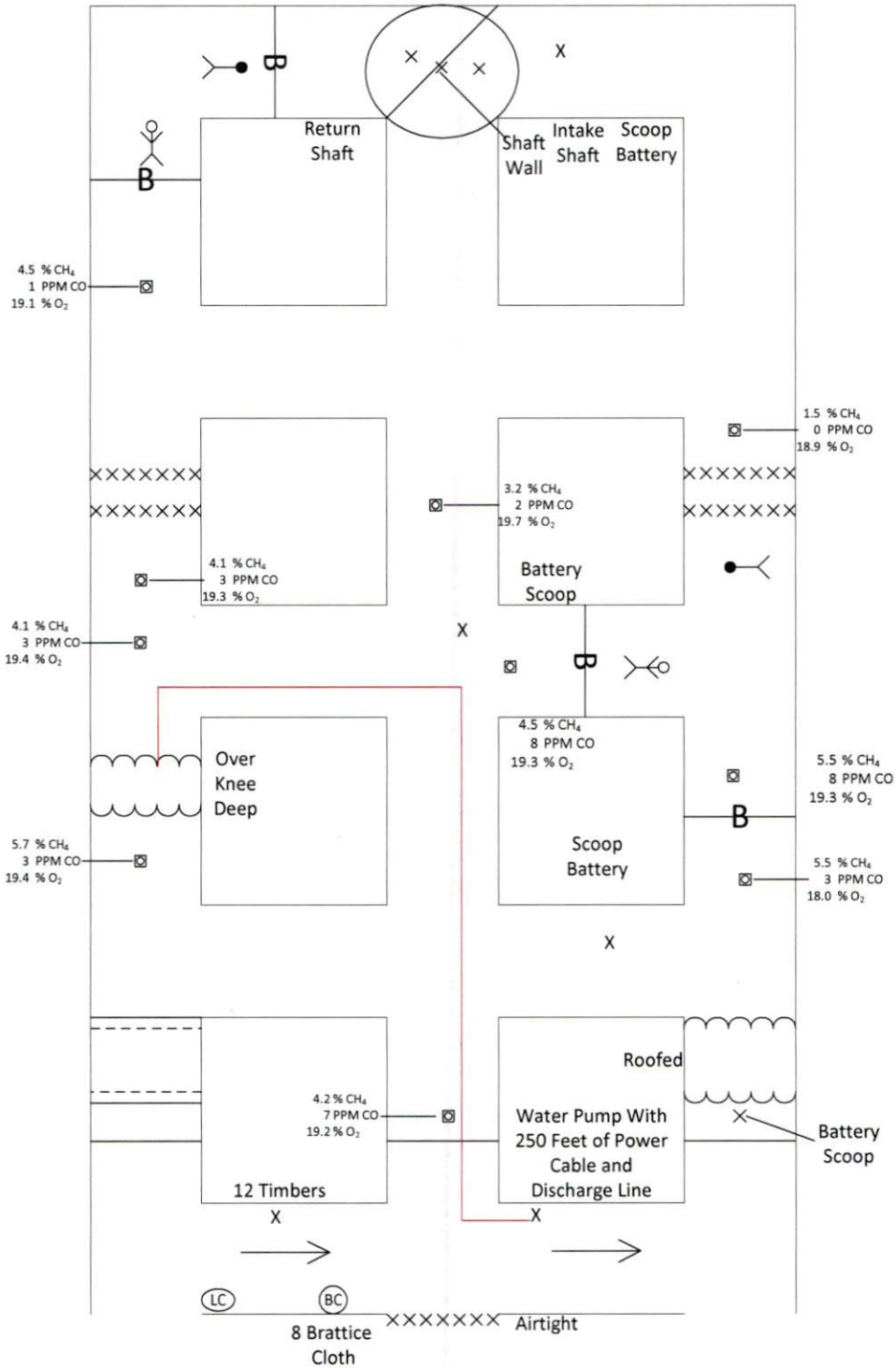
Team Stop 13
Through barricade GT
Shaft wall DI

STOP CLOCK

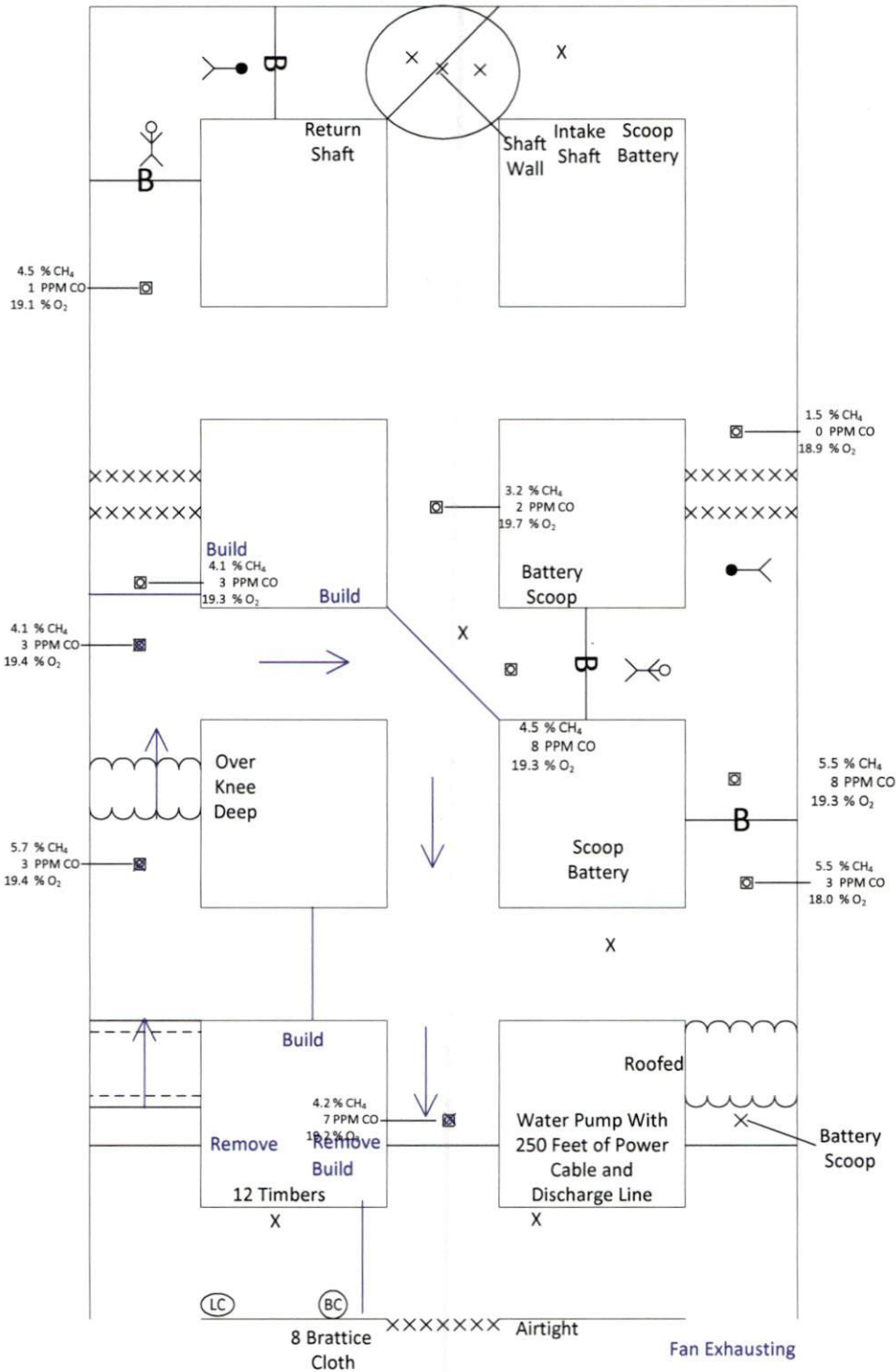
KMI 2017 Day 2
TEAM STOP



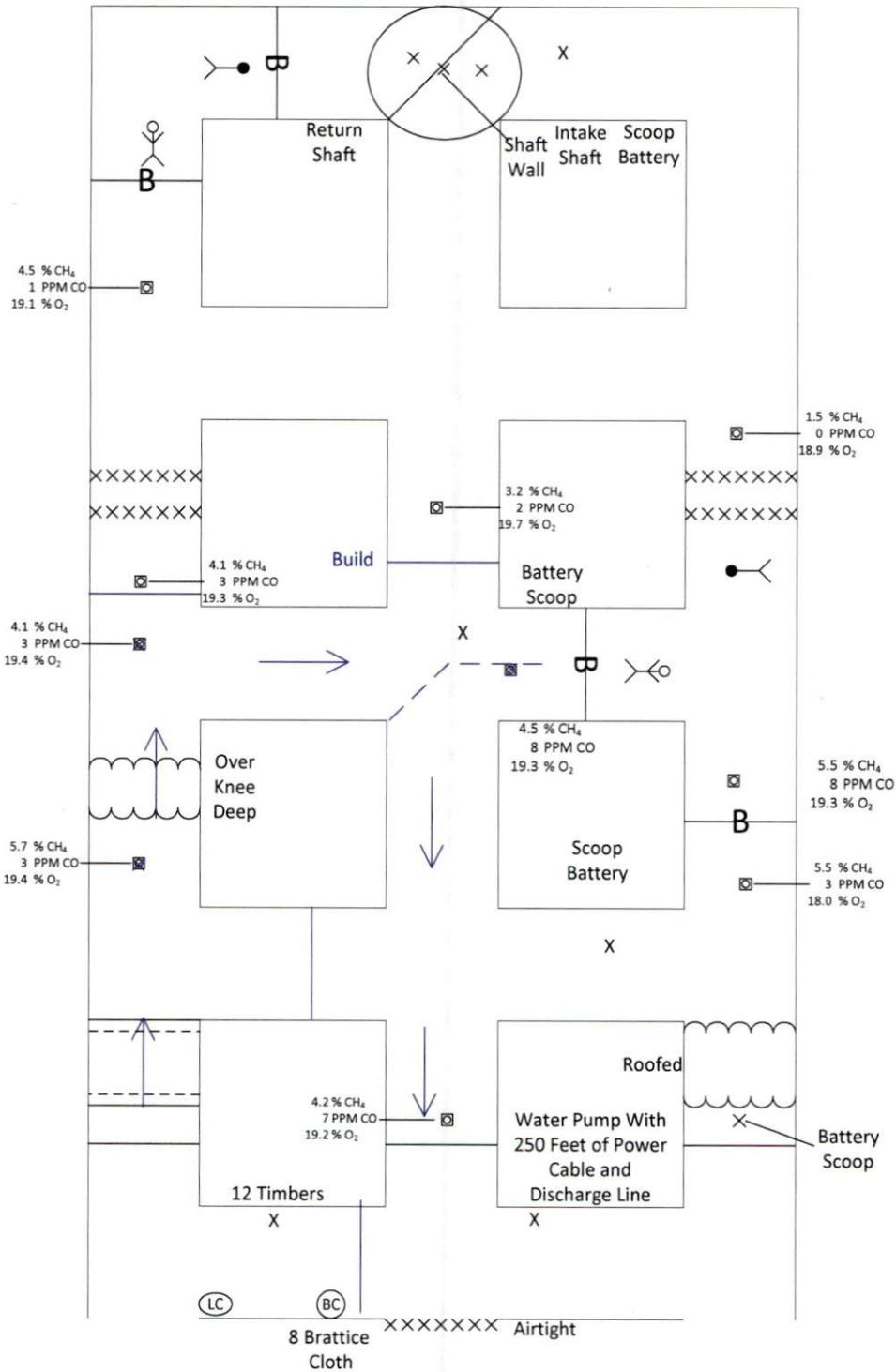
KMI 2017 Day 2
PUMP 1



KMI 2017 Day 2
VENT 1

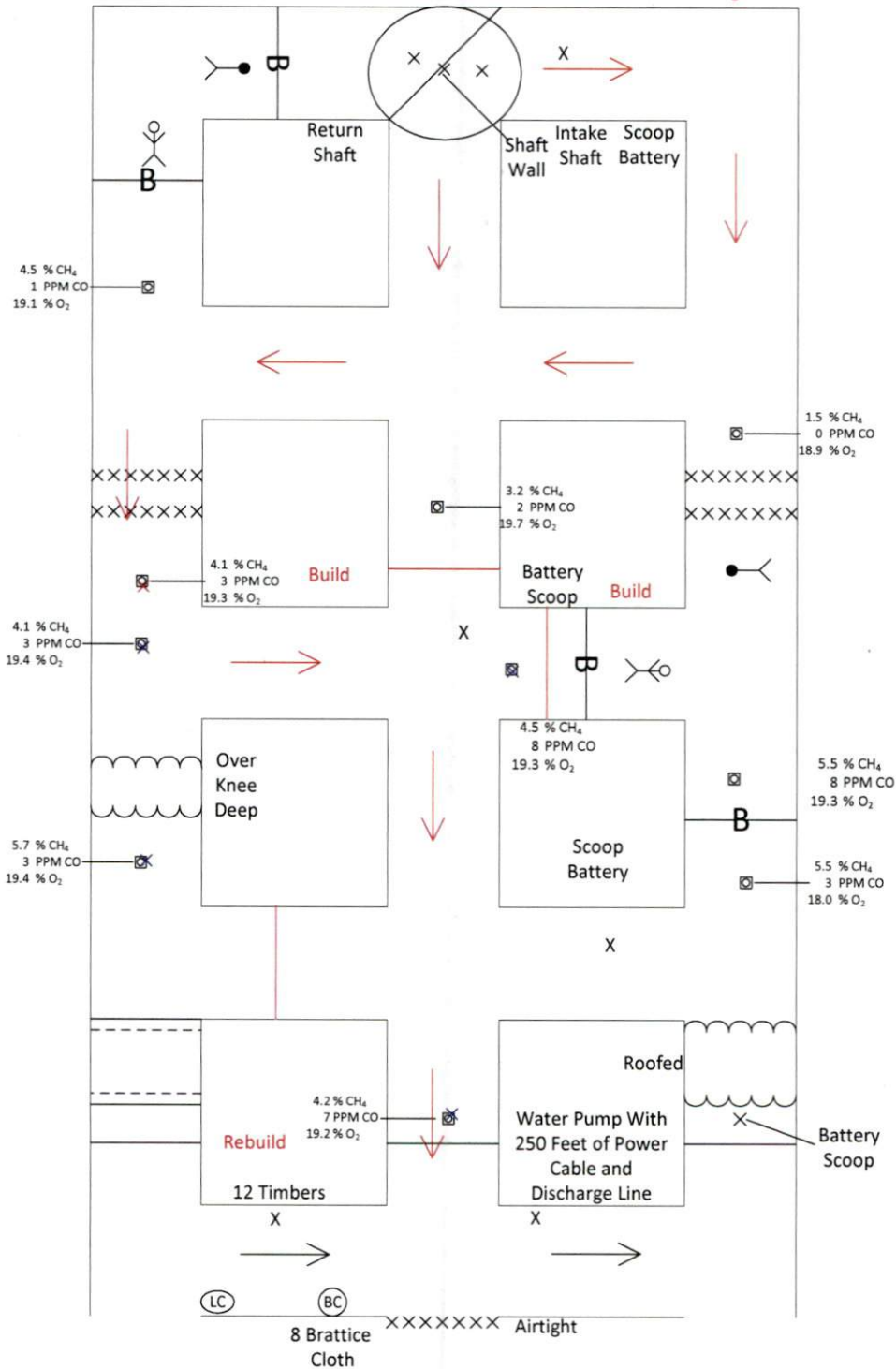


KMI 2017 Day 2
VENT 2

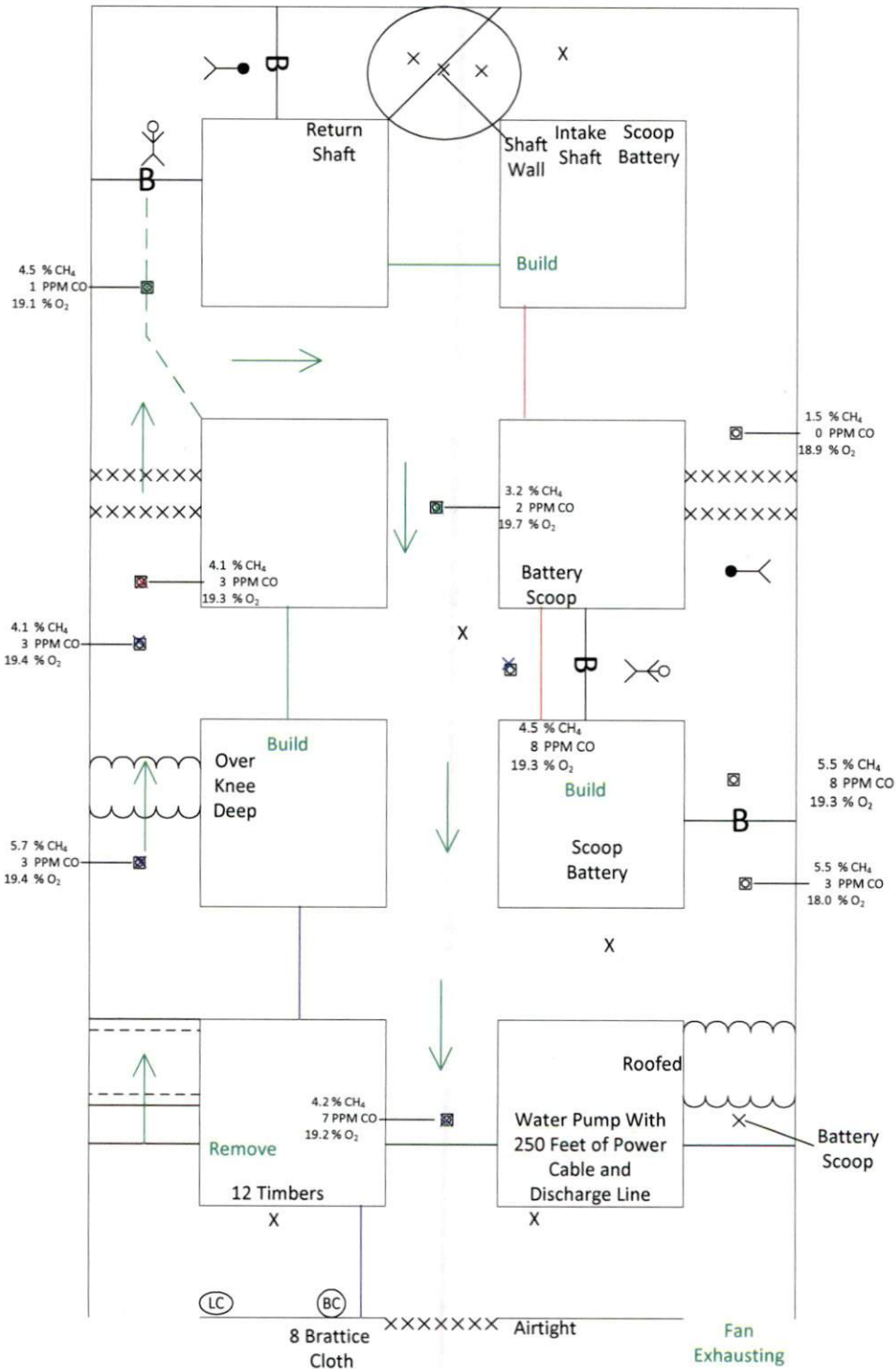


KMI 2017 Day 2
VENT 3

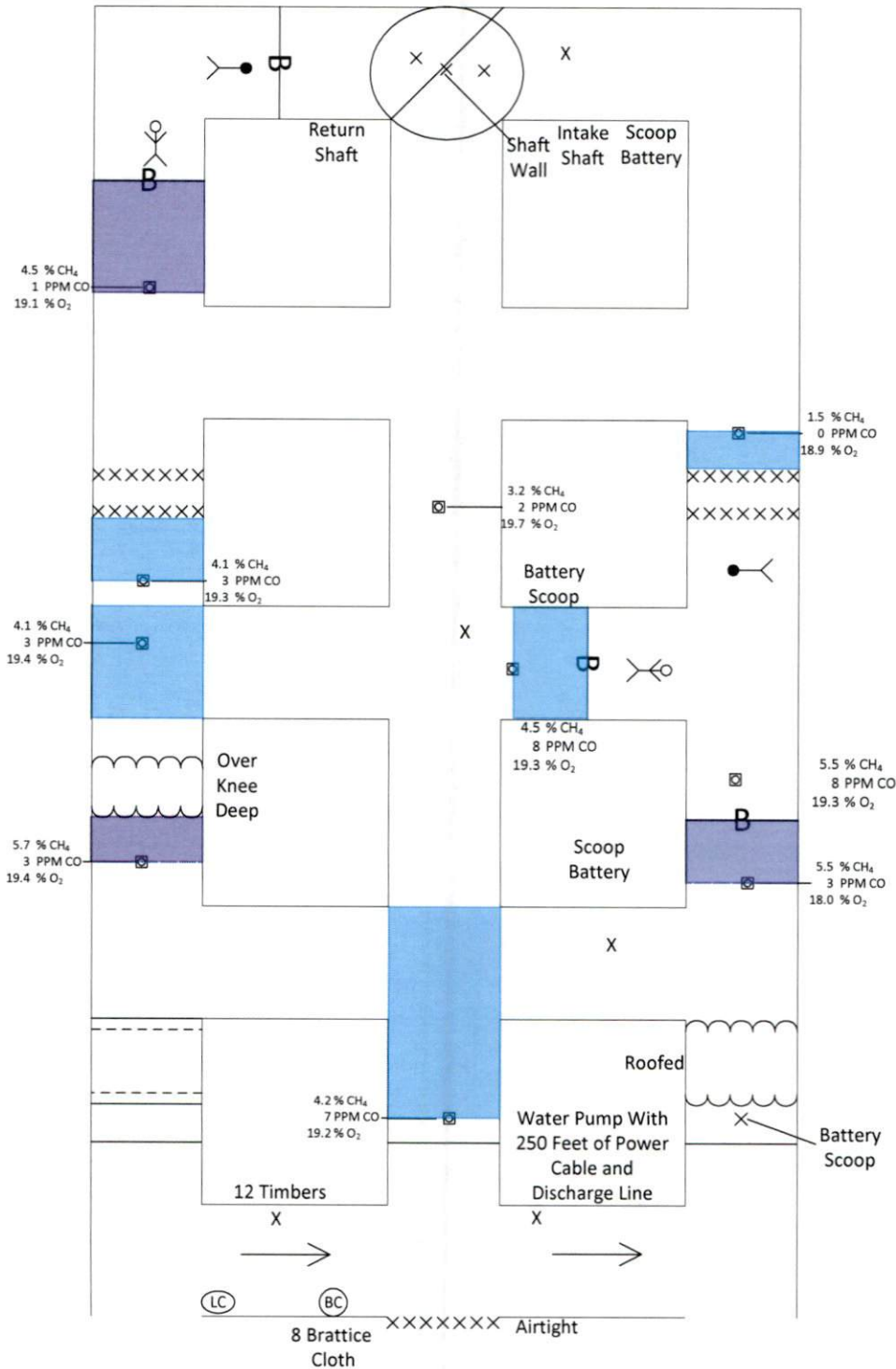
Fan Blowing



KMI 2017 Day 2
VENT 4



KMI 2017 Day 2
EXTENT OF GASES



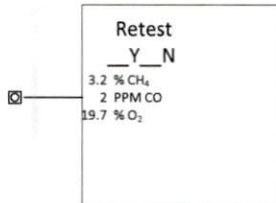
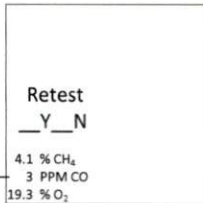
KMI 2017 Day 2
FINAL MAP

SHAFT FAN ON ___ OFF ___
BLOWING ___
EXHAUSTING ___

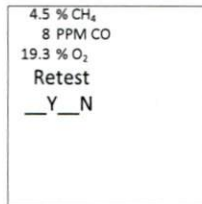
Retest
__Y__N
4.5 % CH₄
1 PPM CO
19.1 % O₂



Retest
__Y__N
1.5 % CH₄
0 PPM CO
18.9 % O₂

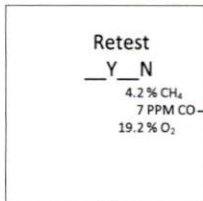


Retest
__Y__N
4.1 % CH₄
3 PPM CO
19.4 % O₂



Retest
__Y__N
5.5 % CH₄
8 PPM CO
19.3 % O₂

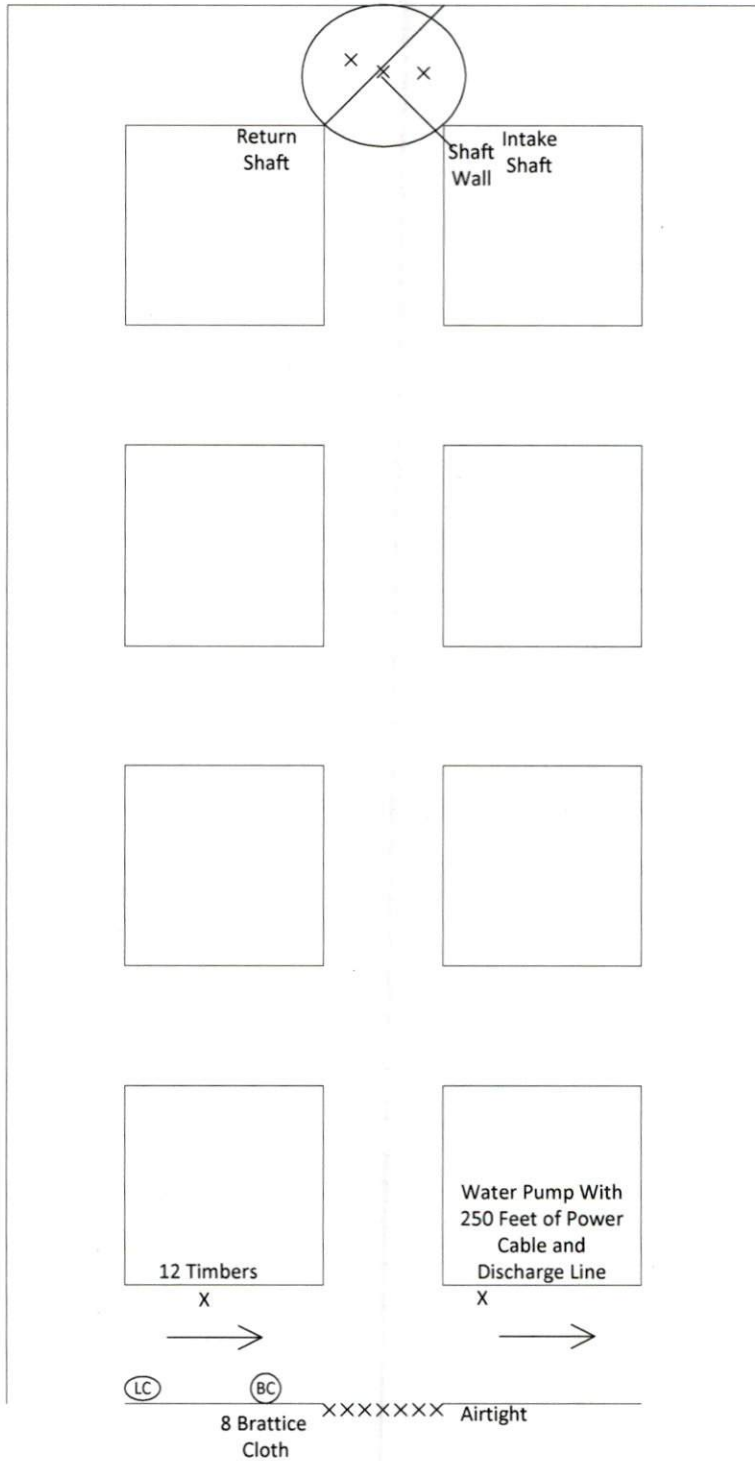
Retest
__Y__N
5.7 % CH₄
3 PPM CO
19.4 % O₂



Retest
__Y__N
5.5 % CH₄
3 PPM CO
18.0 % O₂

Retest
__Y__N

KMI 2017 Day 2
TEAM MAP



KMI 2017 Day 2
BLANK MAP

