

Harlan Contest Written Information

Day 2

Thank you for responding to our call for help. You are located at the fresh-air base of the Good Luck #1 mine. We had a scoop operator, utility man and a foreman working on the 3 Right section when we lost communication to the section. The 3 Right section was driven up to the #45 cross cut and our maps were updated at the end of the last production shift. The Good Luck mine is a large mine with multiple sections. The 3 Right section is being developed as a bleeder system for future mine development. There are multiple intake air sources and returns located on this section, including an intake shaft located at #41 crosscut, a split wall intake/return shaft located in the #3 entry between #44 and #45 crosscuts, with an exhaust fan on the return side of the shaft. This fan is off but can be turned on if requested by the team. The main mine fan is an exhaust fan located at the mine entrance. The main mine fan is supplied air from the intake shaft located at #41 crosscut and must remain running to ventilate the remainder on the mine.

This section has a history of water problems, methane and bad roof. In areas of the mine where water accumulates and effects ventilation, pumps have been installed and are running. If power is turned off to the pump the water will roof immediately.

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

Harlan Contest Day 2

Written Statement

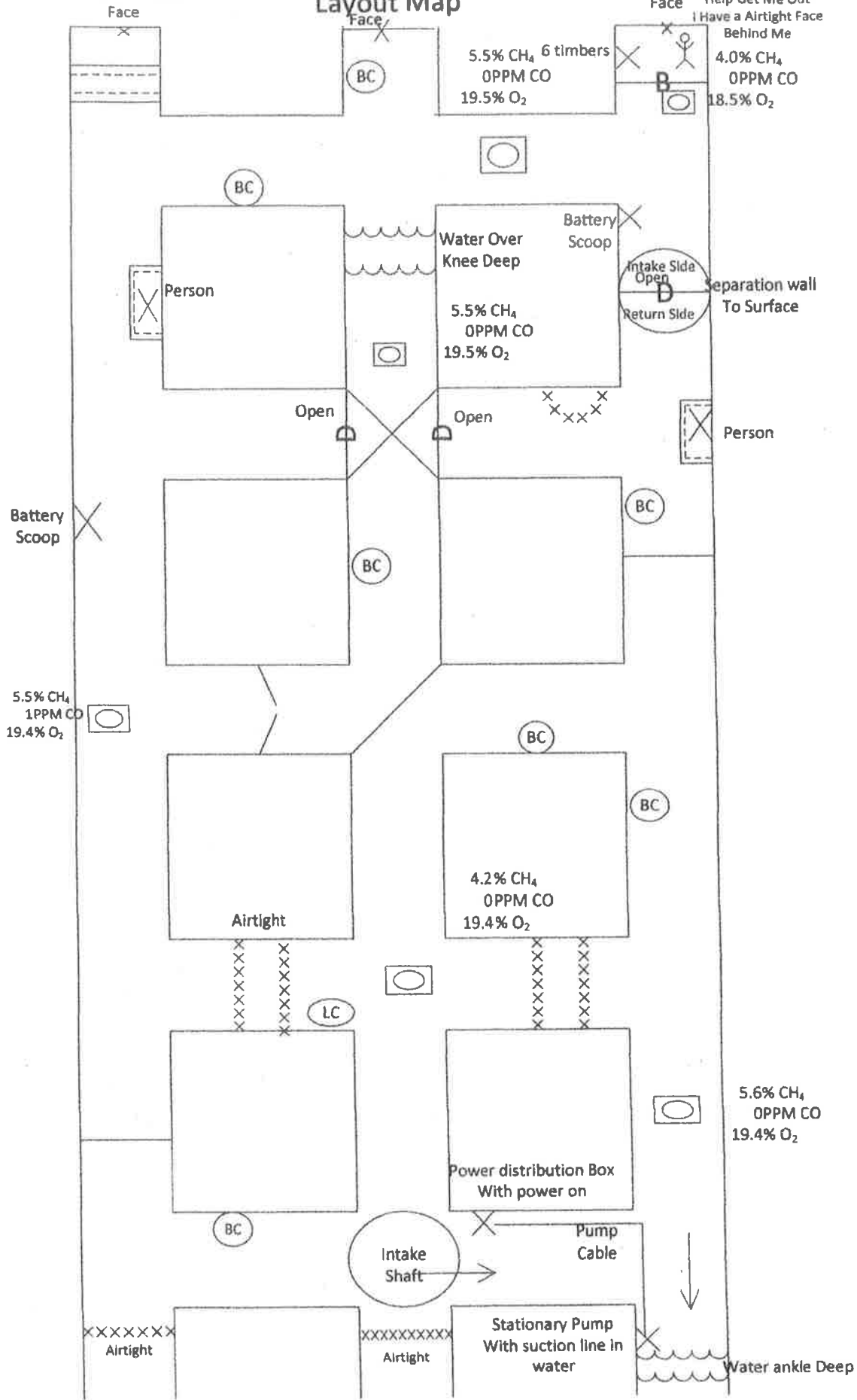
- Explore the entire mine that can be done safely
- Account for all missing miners
- Bring all survivors to the fresh-air base
- The fans cannot be stalled or reversed
- The main mine fan must remain on at all times to ventilate the remainder of the mine

Harlan Contest Day #2

Working Order: _____

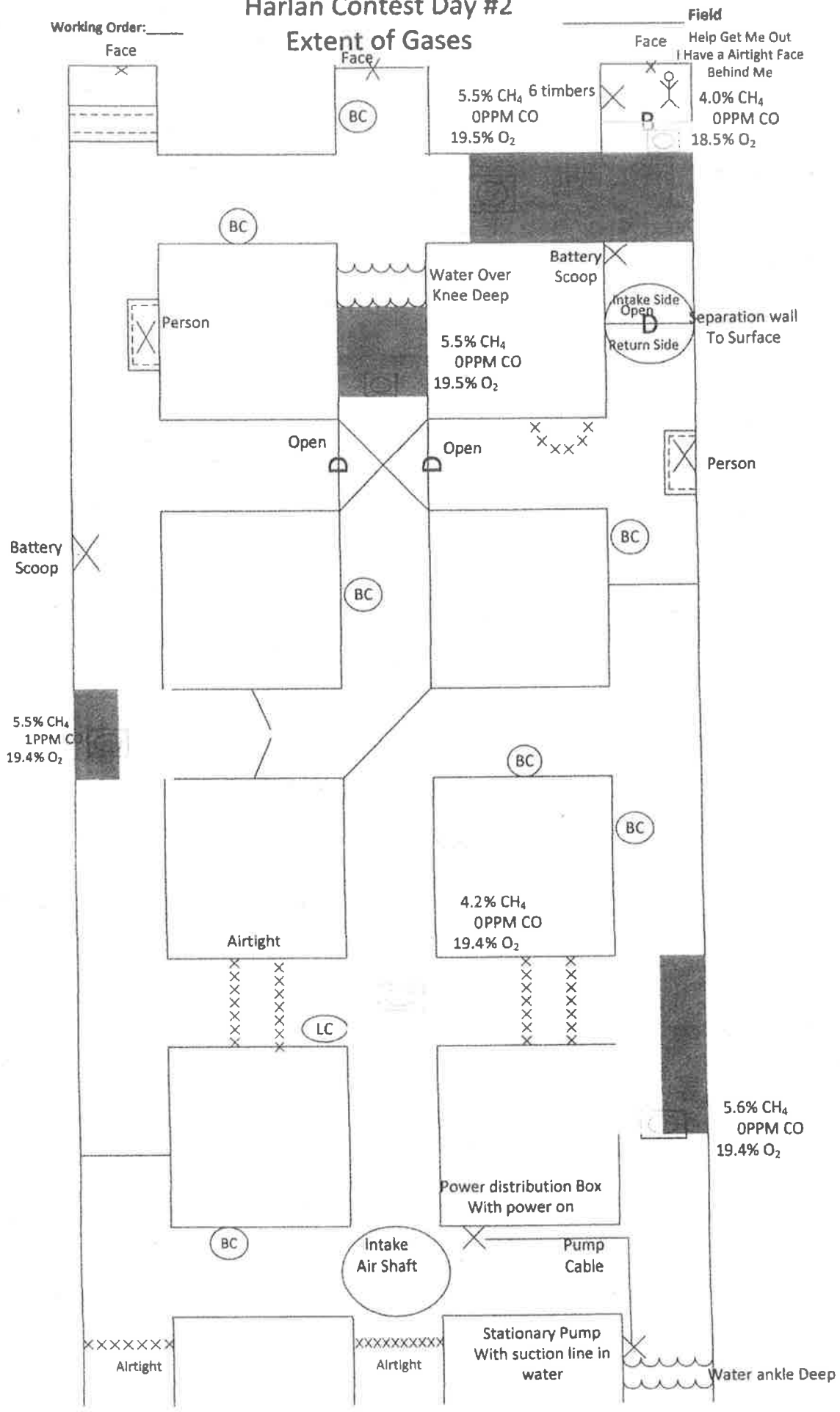
Layout Map

Field



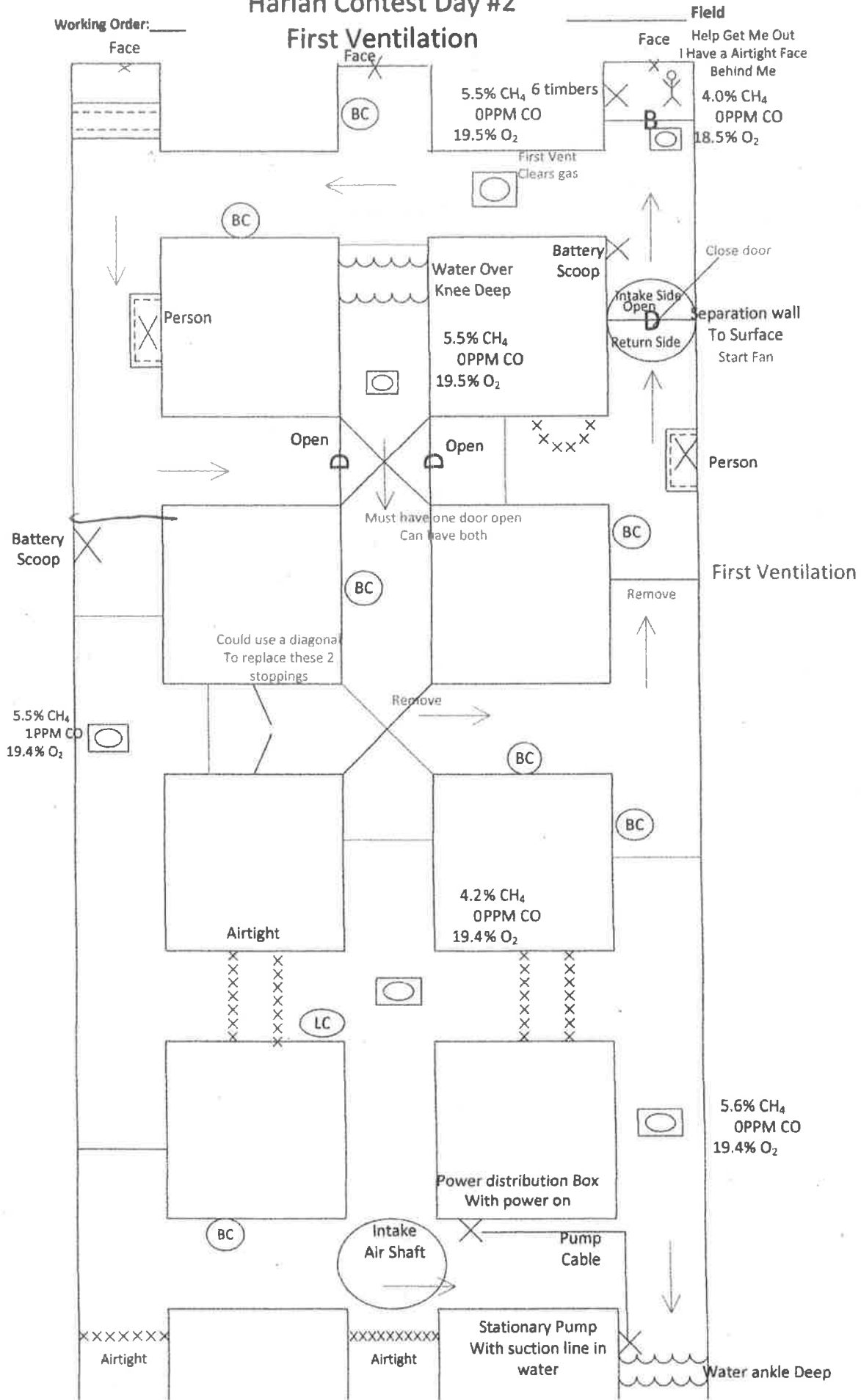
Harlan Contest Day #2

Extent of Gases



Harlan Contest Day #2

First Ventilation



Working Order: _____

Field

Face

Face

Face

Help Get Me Out
I Have an Airtight Face
Behind Me

5.5% CH₄ 6 timbers
0PPM CO
19.5% O₂

4.0% CH₄
0PPM CO
18.5% O₂

First Vent
Clears gas

BC

Person

Water Over
Knee Deep
5.5% CH₄
0PPM CO
19.5% O₂

Battery
Scoop

Close door

Intake Side
Open

Separation wall
To Surface
Start Fan

Return Side

Person

Open

Open

Must have one door open
Can have both

Battery
Scoop

First Ventilation

BC

Remove

Could use a diagonal
To replace these 2
stoppings

5.5% CH₄
1PPM CO
19.4% O₂

Remove

BC

Airtight

4.2% CH₄
0PPM CO
19.4% O₂

BC

BC

LC

5.6% CH₄
0PPM CO
19.4% O₂

Power distribution Box
With power on

Pump
Cable

Intake
Air Shaft

Stationary Pump
With suction line in
water

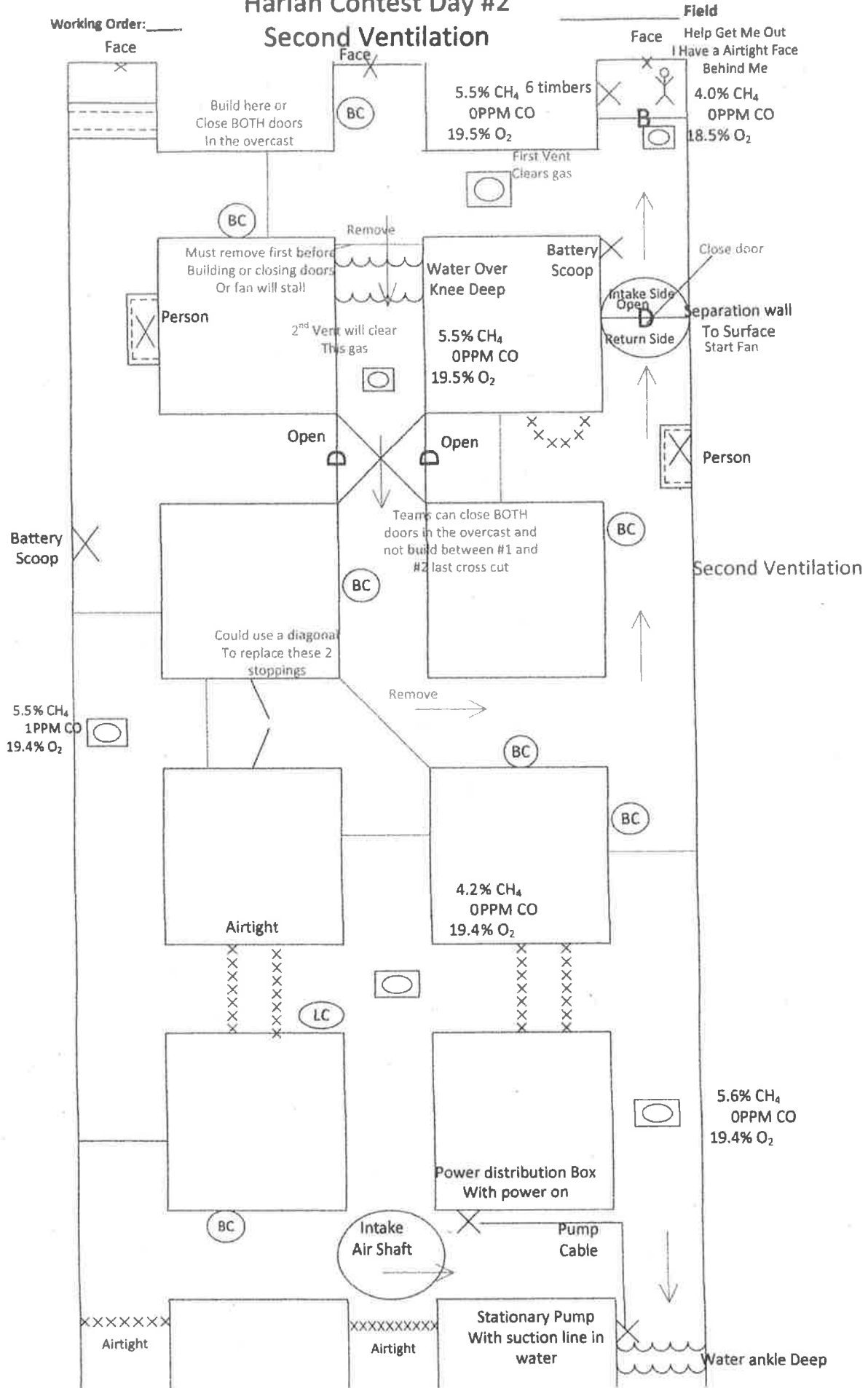
Airtight

Airtight

Water ankle Deep

Harlan Contest Day #2

Second Ventilation



Harlan Contest Day #2

Third Vent

