

2019 Indiana State Mine Rescue and Pre-Shift Contest

Mine Rescue Problem



2019 INDIANA STATE MINE RESCUE STATEMENT

I am _____, Superintendent of the Federal #14 Mine. You are located on the surface of the mine. Last night a seven (7) man crew entered the mine and proceeded to the #1 Unit to perform maintenance and set up to run coal. At 6:35 a.m. this morning a miner called to surface from the unit and said they were experiencing problems. No contact has been established with the miners since the call. At 6:50 a.m., four (4) miners made it out of the mine. The miners who came out said they could not find the other miners and had no contact with them.

The #1 Unit is developing the mine from a box cut but has already experienced bad roof and rib conditions, water problems, and high concentrations of methane gas. This area has been heavily mined in the past and we hope we haven't hit any unmapped old works. Our maps for this mine are up to date at this time.

The #1 Unit has been ventilated by a blowing fan that can be turned on or off if needed. The fan is currently off, but air enters the mine through an air shaft drilled into the mine between the Portal in the #3 entry and XC #1. All power going into the mine has been de-energized and locked out. Air pumps can be used if available.

The three portal entries in the highwall face are where you will enter and exit the mine. The entries are numbered left to right (#1, #2, and #3).

All proper authorities have been notified, a command center has been established on the surface, back-up mine rescue teams are on mine property but cannot be used to perform work underground.

This is all the information we have available at this time.

2019 INDIANA STATE
MINE RESCUE CONTEST

WRITTEN INSTRUCTIONS

EXPLORE THE MINE IN ITS ENTIRETY WHERE SAFE TO DO SO. VENTILATE THE MINE AND LEAVE THE MINE FOR BAREFACED EXPLORATION.

THE FAN YOU ARE WORKING WITH CANNOT BE REVERSED OR STALLED.

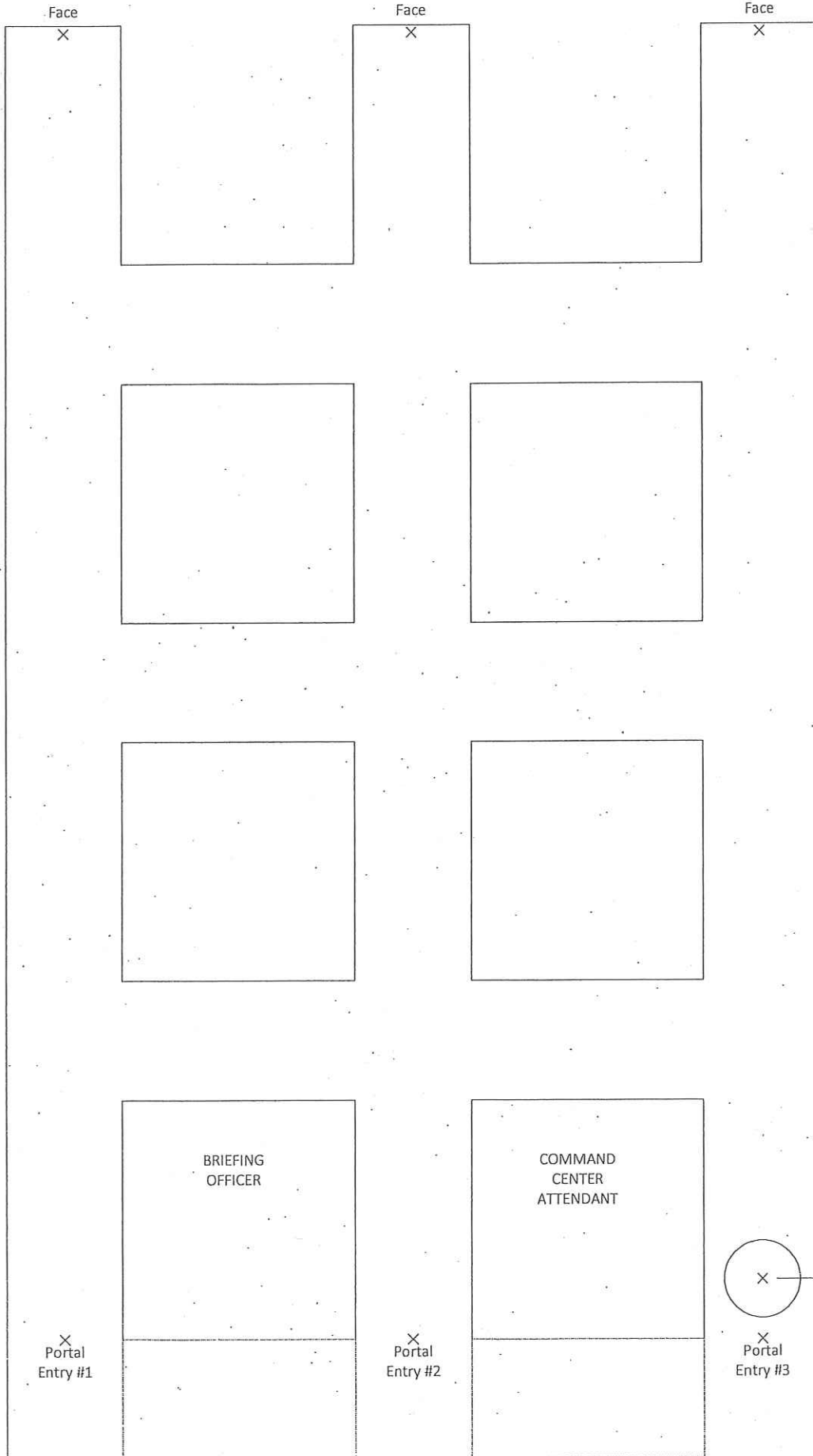
ACCOUNT FOR ALL MISSING PERSONS AND BRING ALL SURVIVORS OUTSIDE TO FRESH AIR.

THE TEAM MAY NOT CARRY MORE THAN TWO (2) BRATTICE CURTAINS AT ANY ONE TIME WHILE ADVANCING OR RETREATING.

IF ANY PERMANENT STRUCTURES ARE ENCOUNTERED UNDERGROUND THEY CANNOT BE REMOVED OR USED ANYWHERE BESIDES THE LOCATION AT WHICH THEY ARE DISCOVERED.

BLANK MAP

Team Working Order # _____



XC #3

XC #2

XC #1

2019 INDIANA STATE MINE RESCUE CONTEST

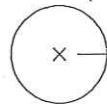
BRIEFING
OFFICER

COMMAND
CENTER
ATTENDANT

X
Portal
Entry #1

X
Portal
Entry #2

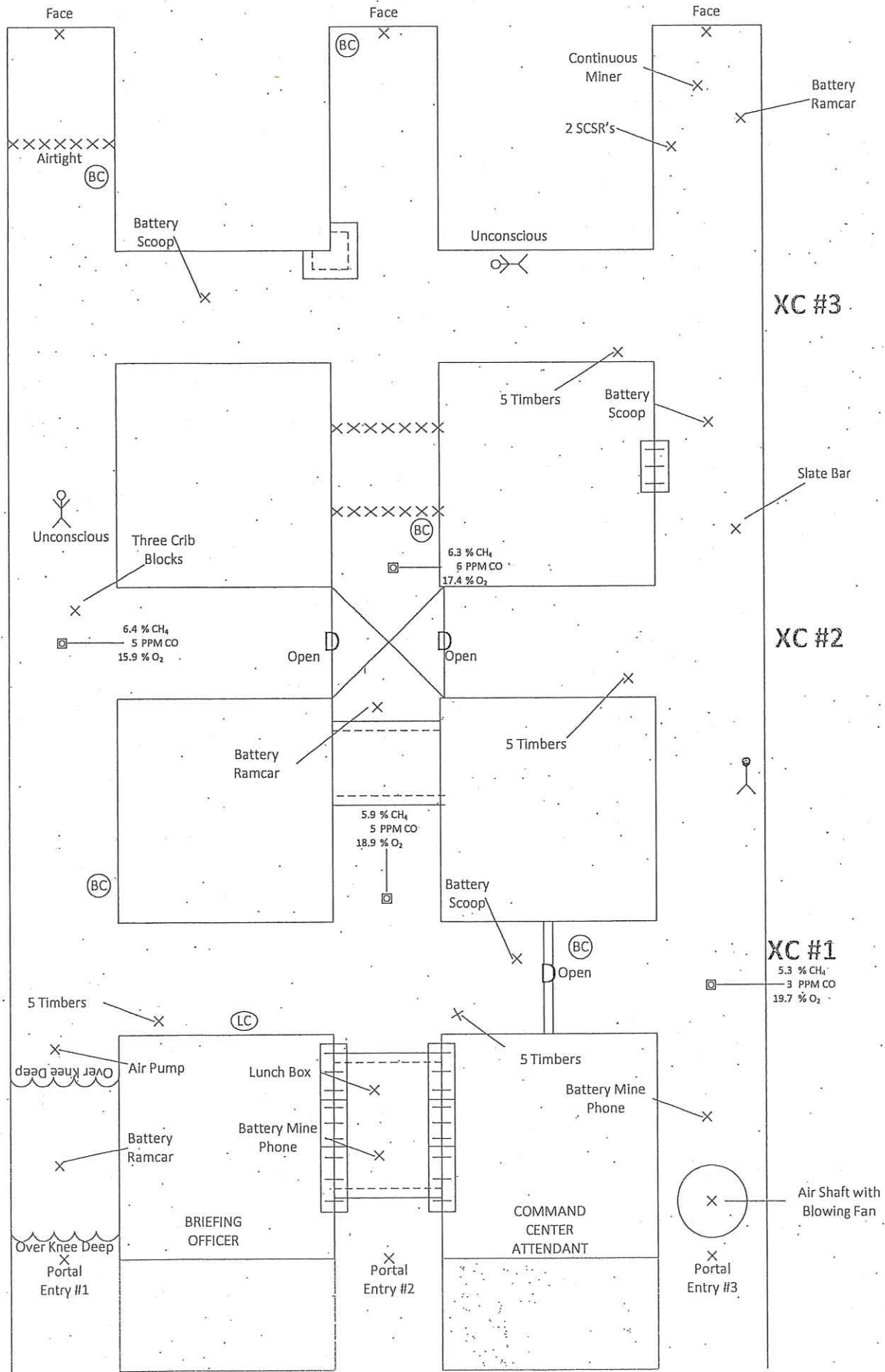
X
Portal
Entry #3



Air Shaft with
Blowing Fan

FIELD MAP

Team Working Order # _____



XC #3

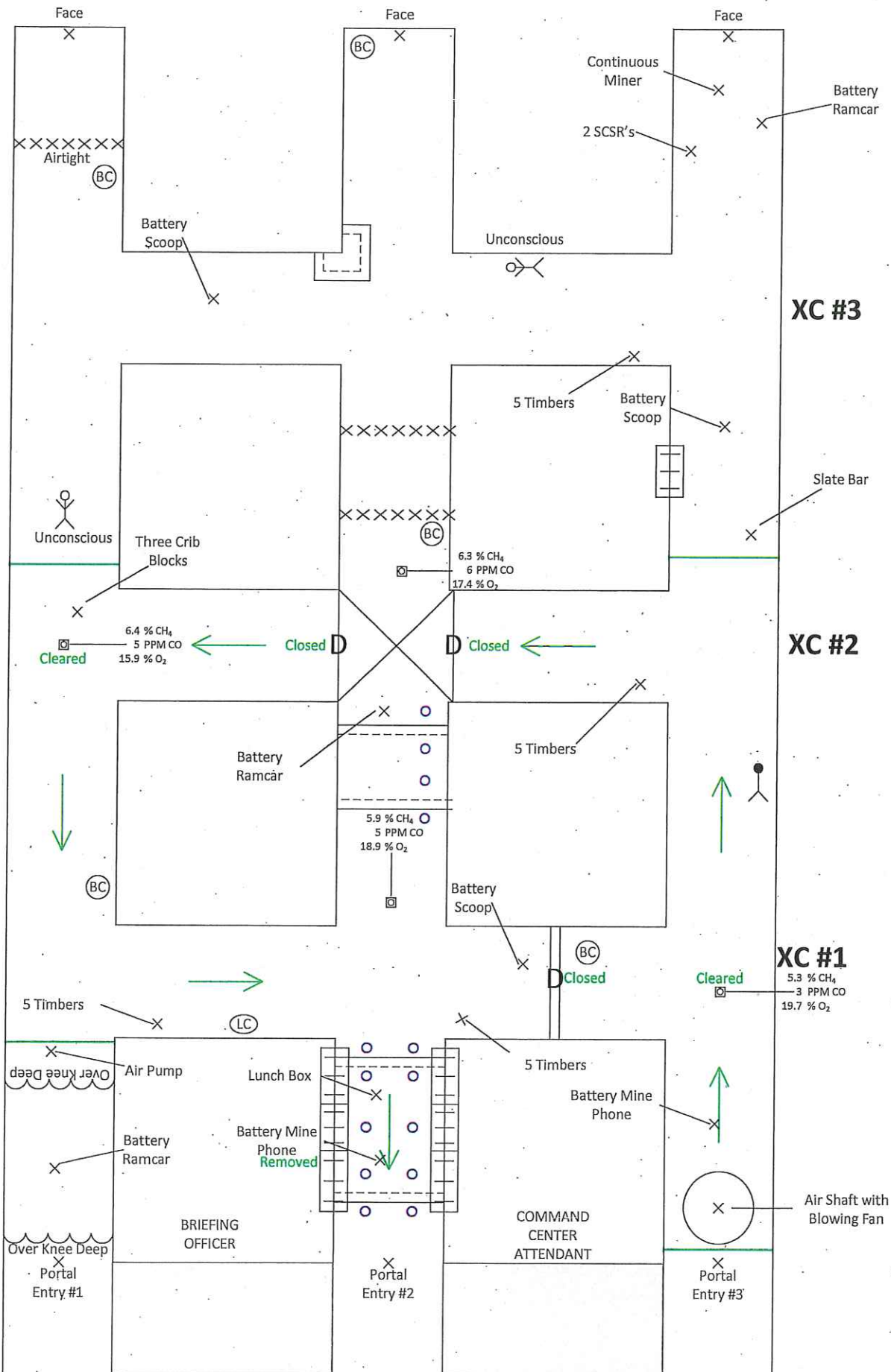
XC #2

XC #1

2019 INDIANA STATE MINE RESCUE CONTEST

1st VENT MAP

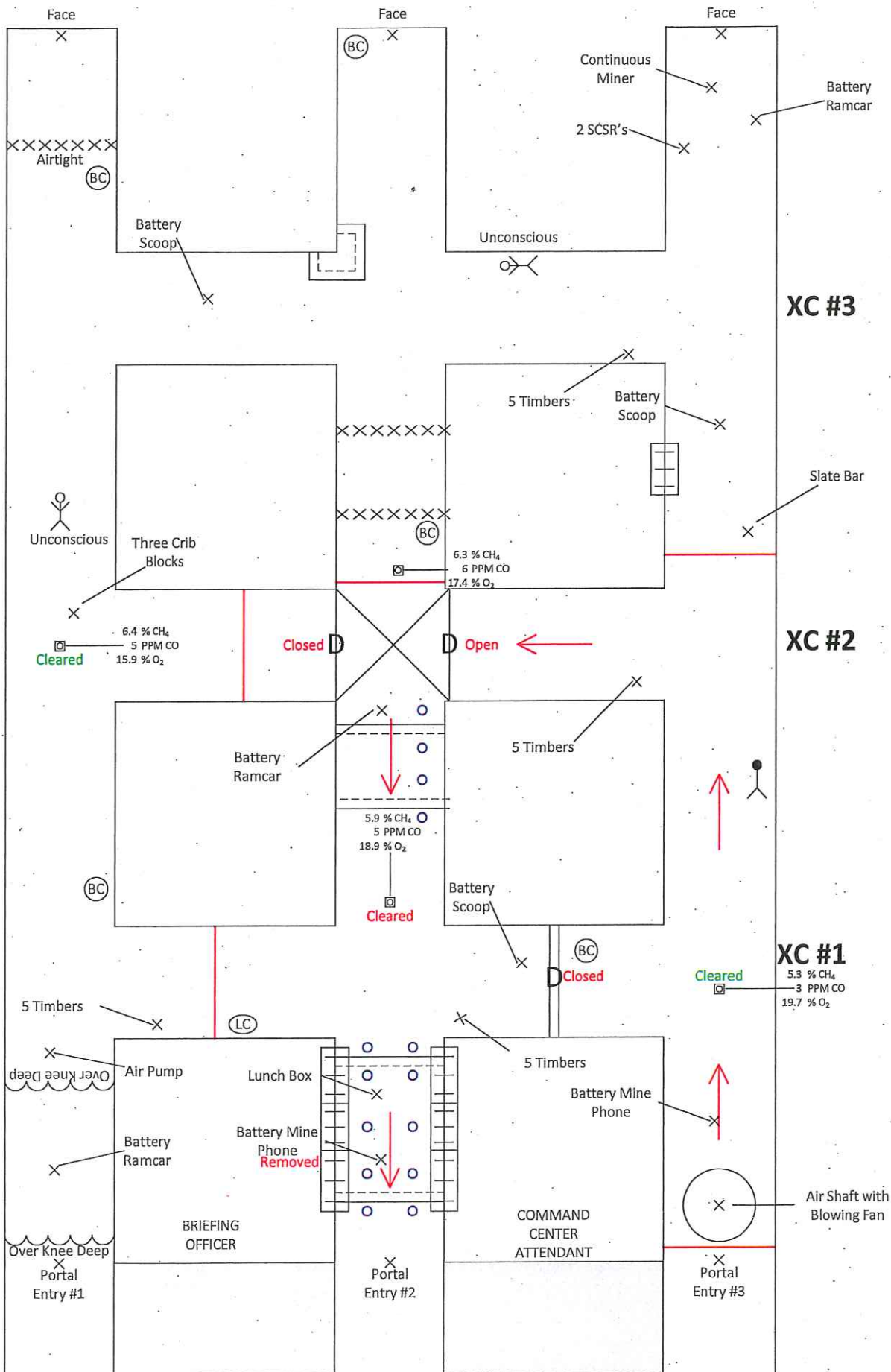
Team Working Order # _____



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2nd VENT MAP

Team Working Order # _____

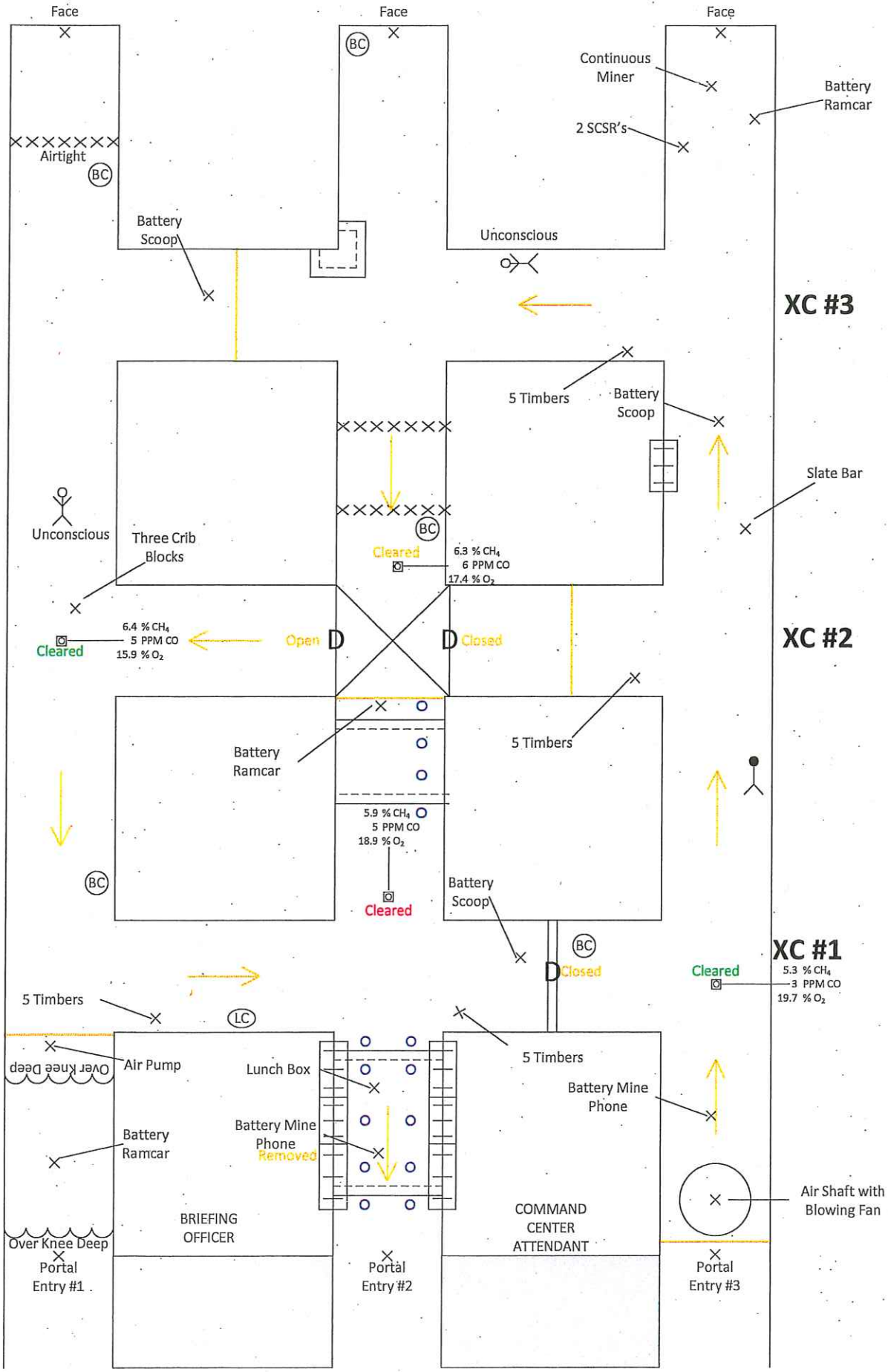


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3rd VENT MAP

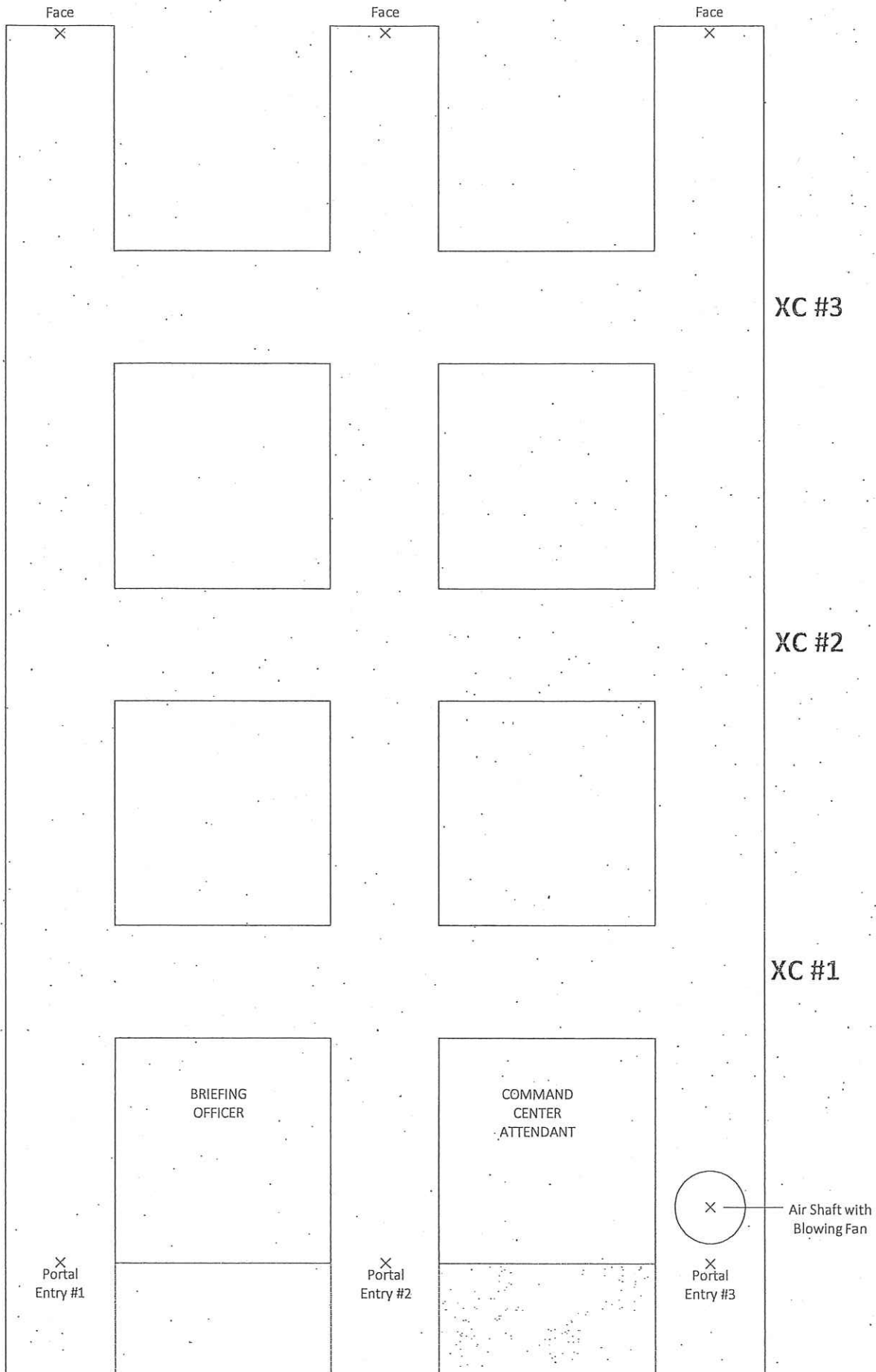
Team Working Order # _____

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FINAL VENT MAP

Team Working Order # _____



2019 INDIANA STATE MINE RESCUE CONTEST

Team Captain _____ Field Chairman _____