

JWR Company Contest May 7, 2014

Thank you for responding to our call for help. Something has happened in the mine and we cannot contact the 3 missing miners. The exhaust fan stopped at 6:00 AM. The monitoring system indicated that it had stalled. It has been restarted and is running. The map is up to date.

The proper authorities have been notified. Medical personnel are on the scene. A back up team is available.

JWR Contest Problem

Find the missing miners and bring any survivors to the fresh air base.

Report any explosive mixtures to the command center before leaving that stop.

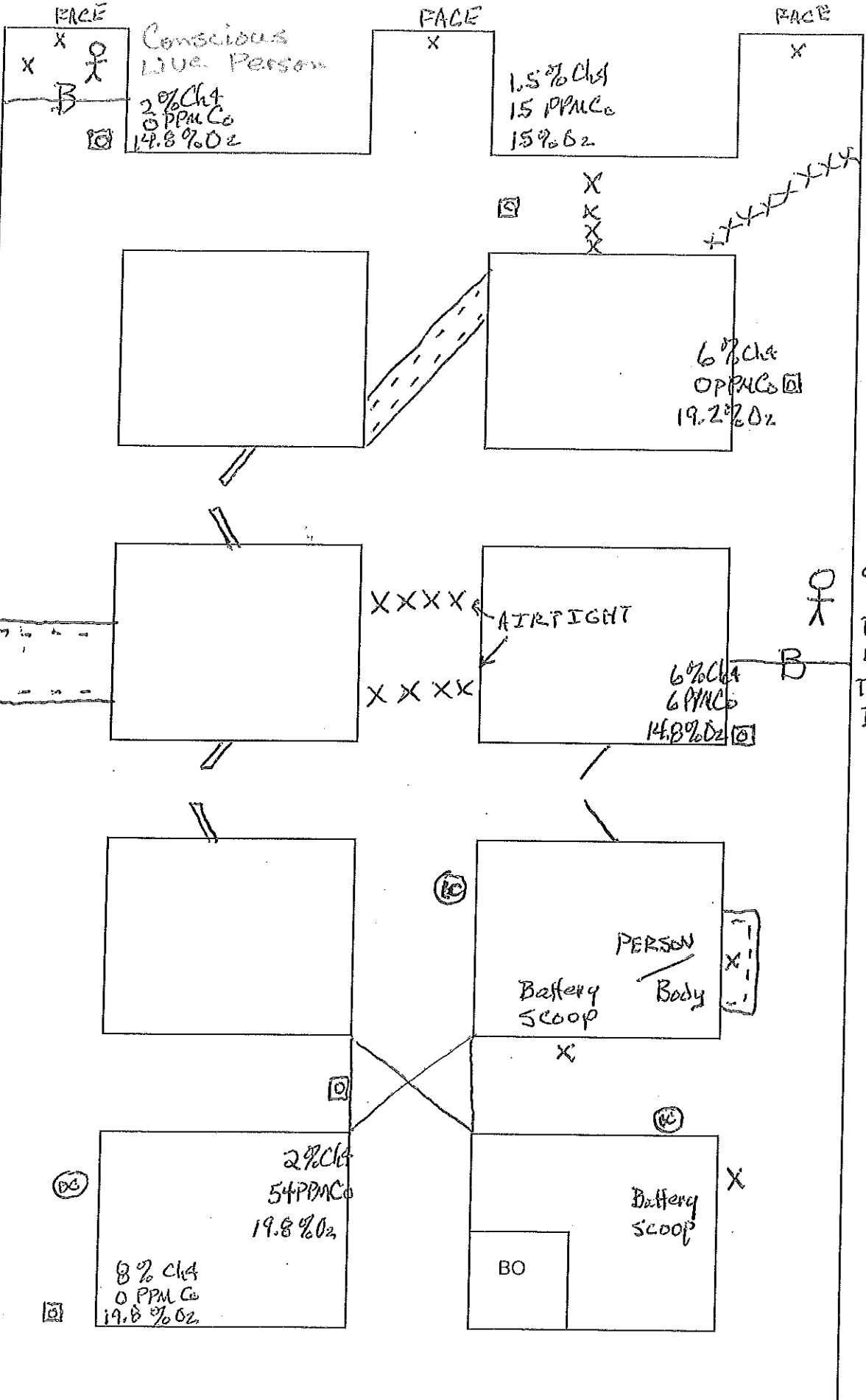
The fan cannot be stopped or stalled.

You have one hour to work the problem.

Superintendent Check List

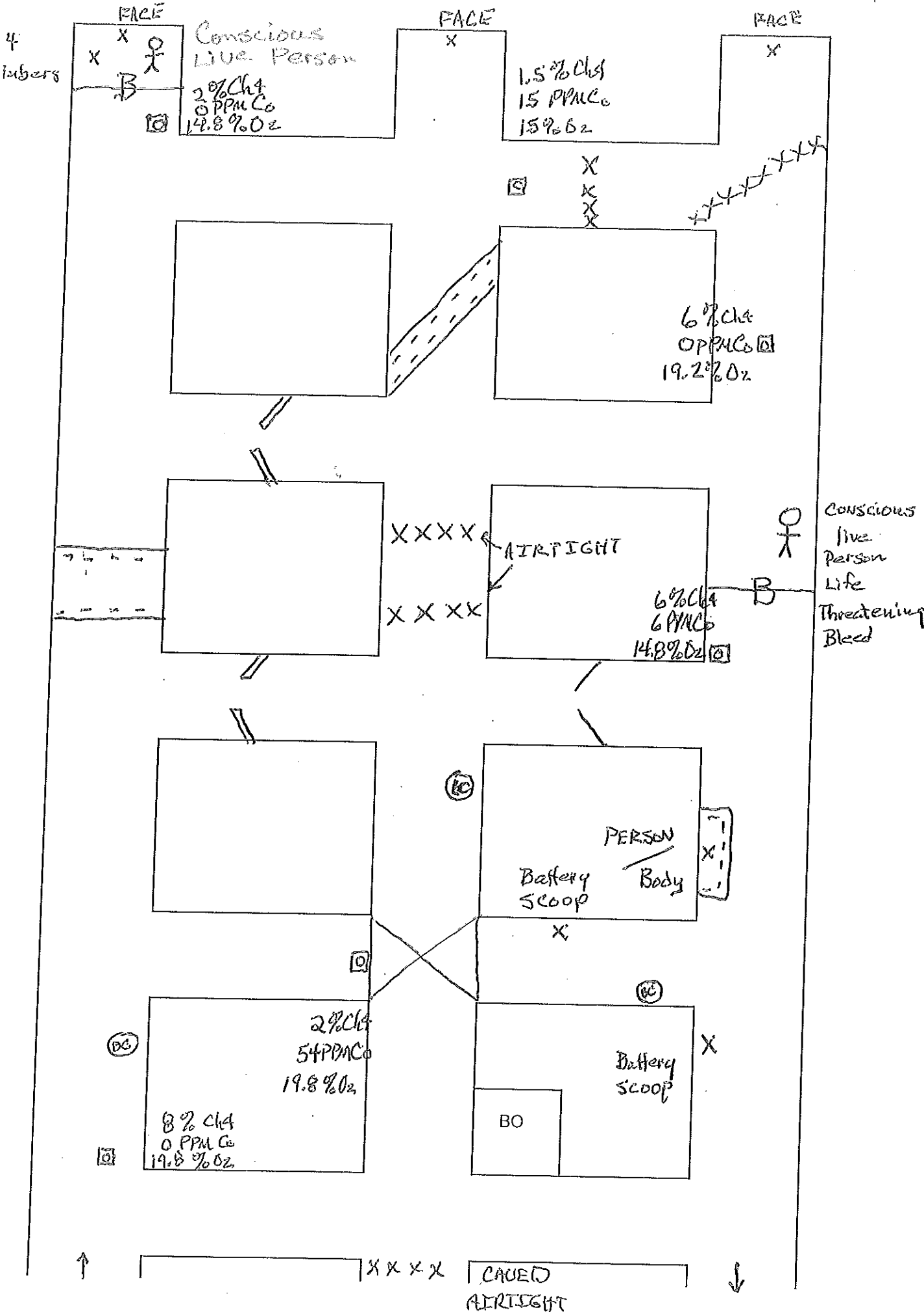
1. Did the briefing officer establish communication with the team before they went underground?
2. Did the team call out explosive mixtures before leaving that stop (three locations)?
3. Did the team complete the problem in the 1 hour time limit? If not, be sure to note how far the team had gotten in order to discount correctly per A card rule 3.
4. Did the team quit because of the gases in #3 entry and in the last crosscut between two and three? If so be sure to note so the team will be discounted correctly for not continuing.

4
inbers



Conscious
Live
Person
Life
Threatening
Bleed

CAVED
AIR TIGHT



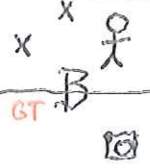
4
Inbers

FACE

FACE

FACE

Conscious
Live Person



2% CH₄
0 PPM CO
19.8% O₂

1.5% CH₄
15 PPM CO
15% O₂

GT

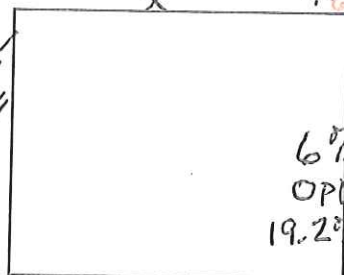
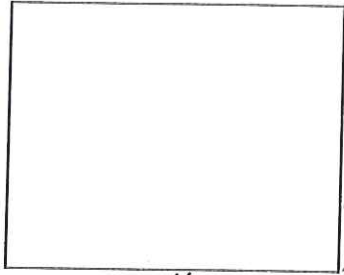
GT

GT

X

X

X



6% CH₄
0 PPM CO
19.2% O₂

GT

GT

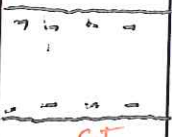
GT

GT

GT

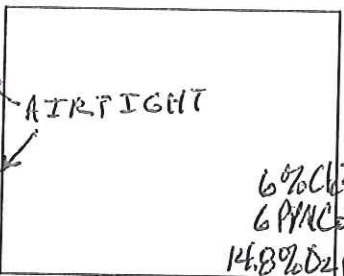
GT

GT



GT

GT



AIR TIGHT

6% CH₄
6 PPM CO
14.8% O₂

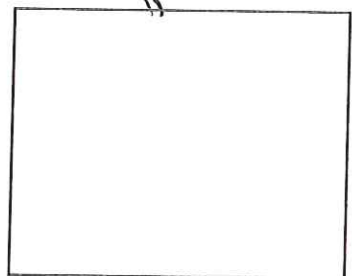
GT



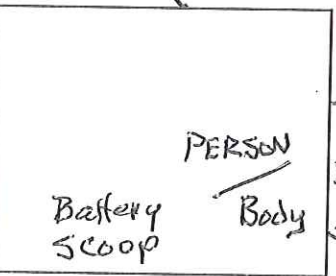
Conscious
live
Person
Life
Threatening
Bleed

GT

GT



GT



PERSON
Battery
Scoop
Body

GT

GT

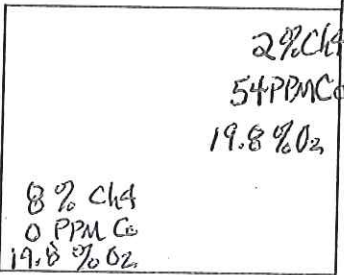
GT

GT

GT

GT

GT



GT

GT

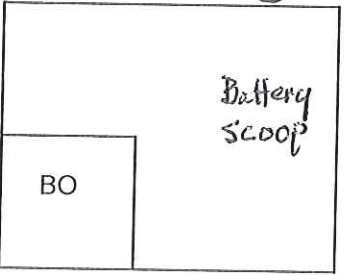
GT

2% CH₄
54 PPM CO
19.8% O₂

8% CH₄
0 PPM CO
19.8% O₂

GT

GT

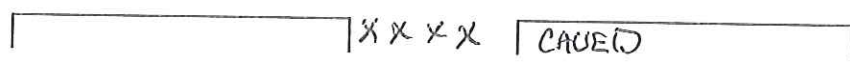


Battery
Scoop

BO

GT

↑



X X X X

CAVED
AIR TIGHT

↓

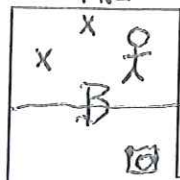
Gas test
May change
depending
on
direction
of
travel

4
inbers

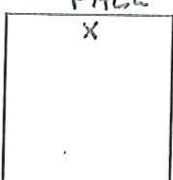
FACE

FACE

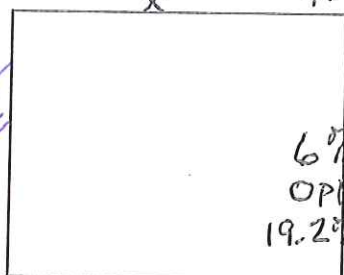
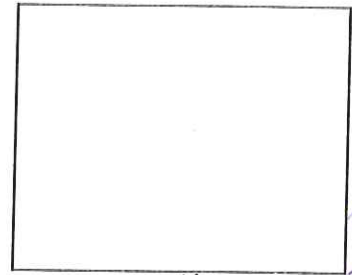
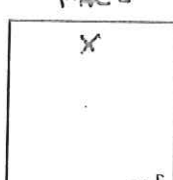
FACE



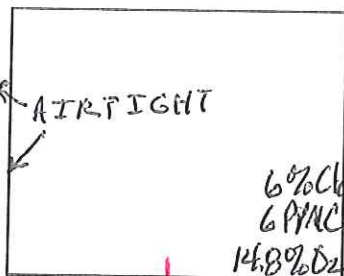
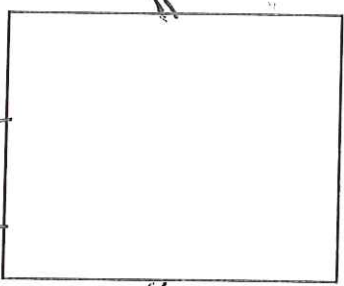
2% CH₄
0 PPM CO
14.8% O₂



1.5% CH₄
15 PPM CO
15% O₂

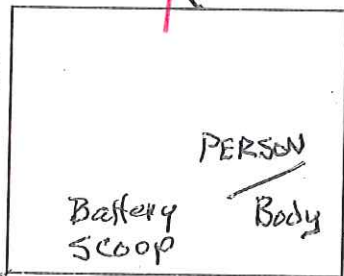
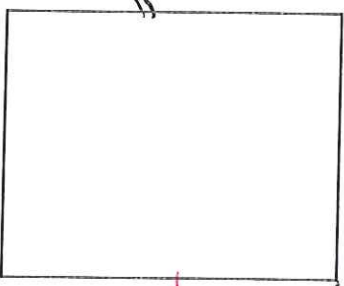


6% CH₄
0 PPM CO
19.2% O₂

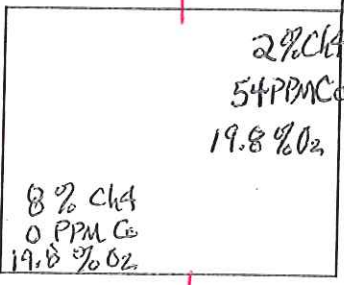


6% CH₄
6 PPM CO
14.8% O₂

CONSCIOUS
live
Person
Life
Threatening
Bleed

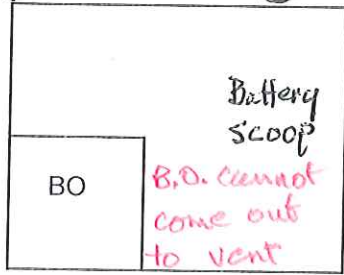


PERSON
Battery Scoop
Body



8% CH₄
0 PPM CO
14.8% O₂

2% CH₄
54 PPM CO
19.8% O₂



BO

Battery Scoop
B.O. cannot
come out
to vent

1st
Ventilation



X X X X

CAVED
AIR TIGHT

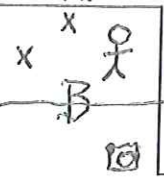


4
tubers

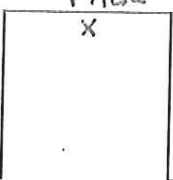
FACE

FACE

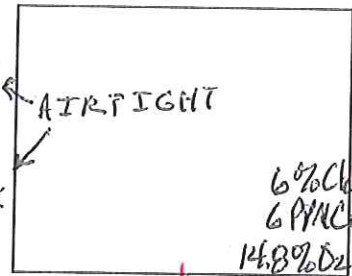
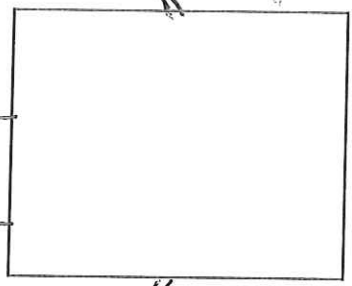
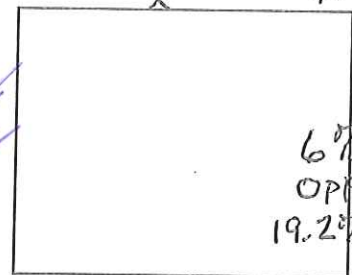
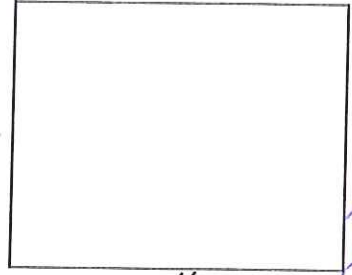
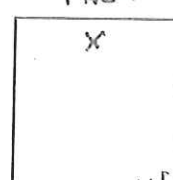
FACE



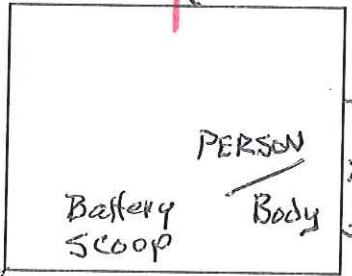
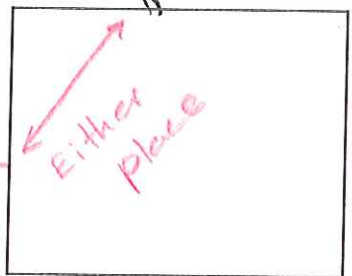
2% CH₄
0 PPM CO
14.8% O₂



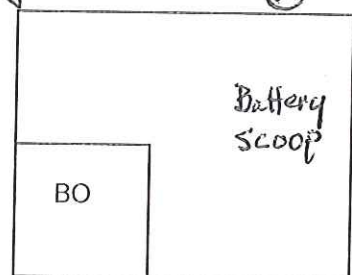
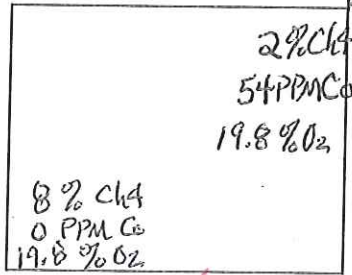
1.5% CH₄
15 PPM CO
15% O₂



conscious
live
Person
Life
Threatening
Bleed



2nd vent



Clear

↑

XXXXX

CAVE
AIR TIGHT

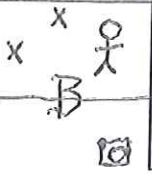
↓

4
Inbers

FACE

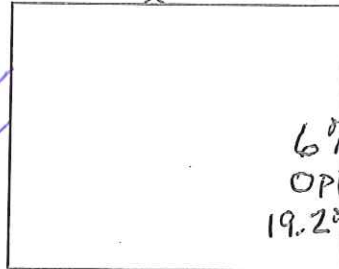
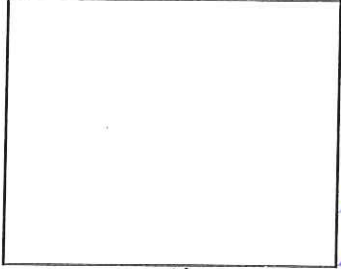
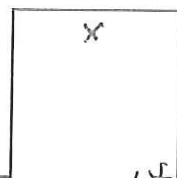
FACE

FACE

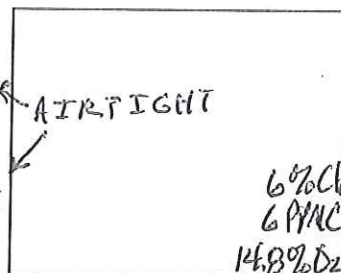
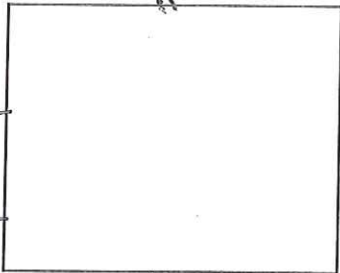


2% CH₄
0 PPM CO
14.8% O₂

1.5% CH₄
15 PPM CO
15% O₂



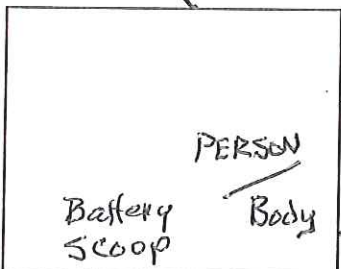
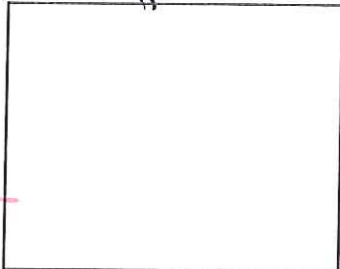
6% CH₄
0 PPM CO
19.2% O₂



AIR TIGHT
X
X
X
X
X

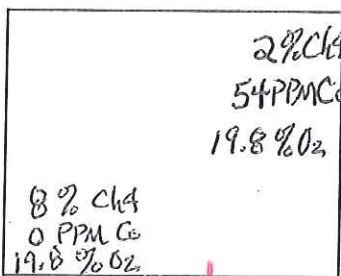
6% CH₄
6 PPM CO
14.8% O₂

CONSCIOUS
live
Person
Life
Threatening
Bleed



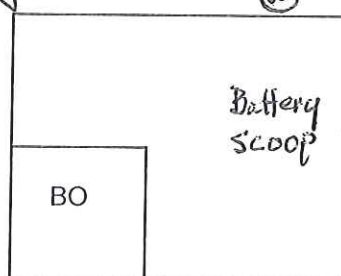
PERSON
Battery
SCOOP
Body

3rd
Vent



2% CH₄
54 PPM CO
19.8% O₂

8% CH₄
0 PPM CO
14.8% O₂



Battery
SCOOP
BO

Clear

Clear

↑

X
X
X
X

CAUTION
AIR TIGHT

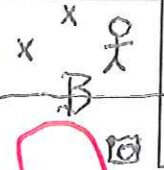
↓

4
tubers

FACE

FACE

FACE



2% CH₄
0 PPM CO
14.8% O₂

1.5% CH₄
15 PPM CO
15% O₂

6% CH₄
0 PPM CO
19.2% O₂

6% CH₄
6 PPM CO
14.8% O₂

2% CH₄
54 PPM CO
19.8% O₂

8% CH₄
0 PPM CO
14.8% O₂

PERSON
Battery
SCOOP
Body

Battery
SCOOP

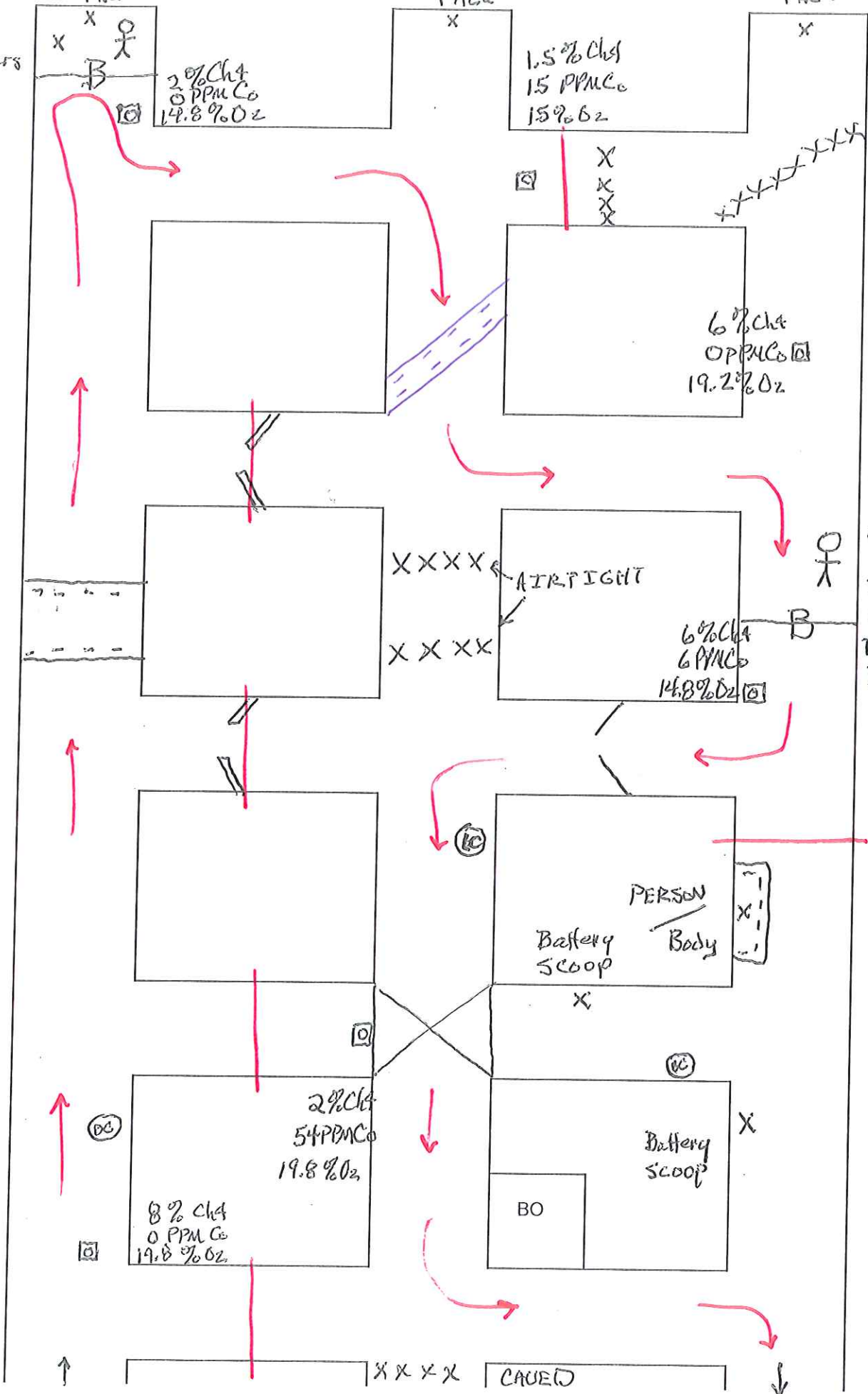
BO

conscious
live
Person
Life
Threatening
Bleed

4th
Vent.

X X X X

CAVED
AIRTIGHT

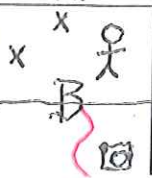


4
Inbers

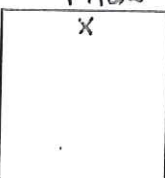
FACE

FACE

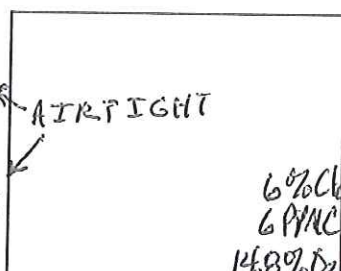
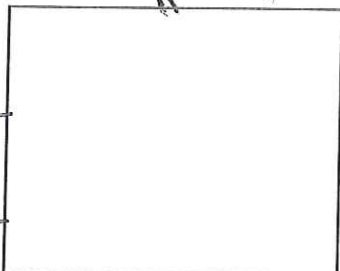
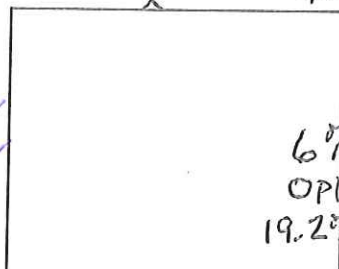
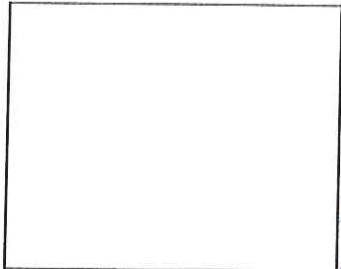
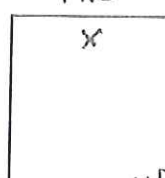
FACE



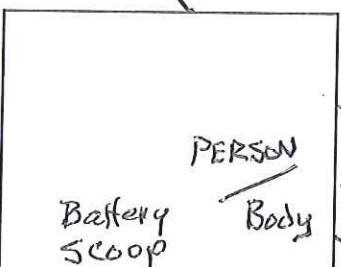
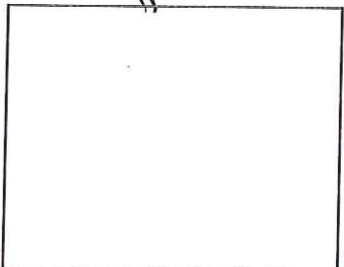
2% CH₄
0 PPM CO
14.8% O₂



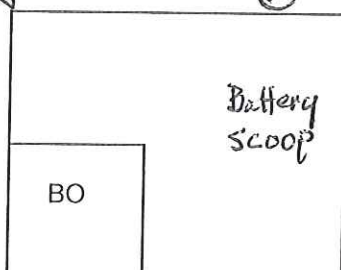
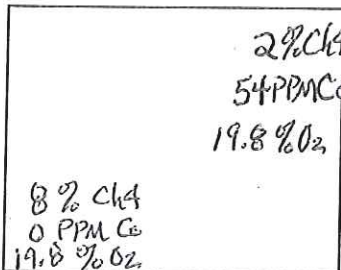
1.5% CH₄
15 PPM CO
15% O₂



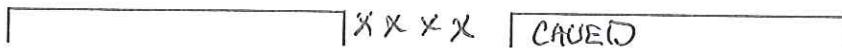
Conscious
live
Person
Life
Threatening
Bleed



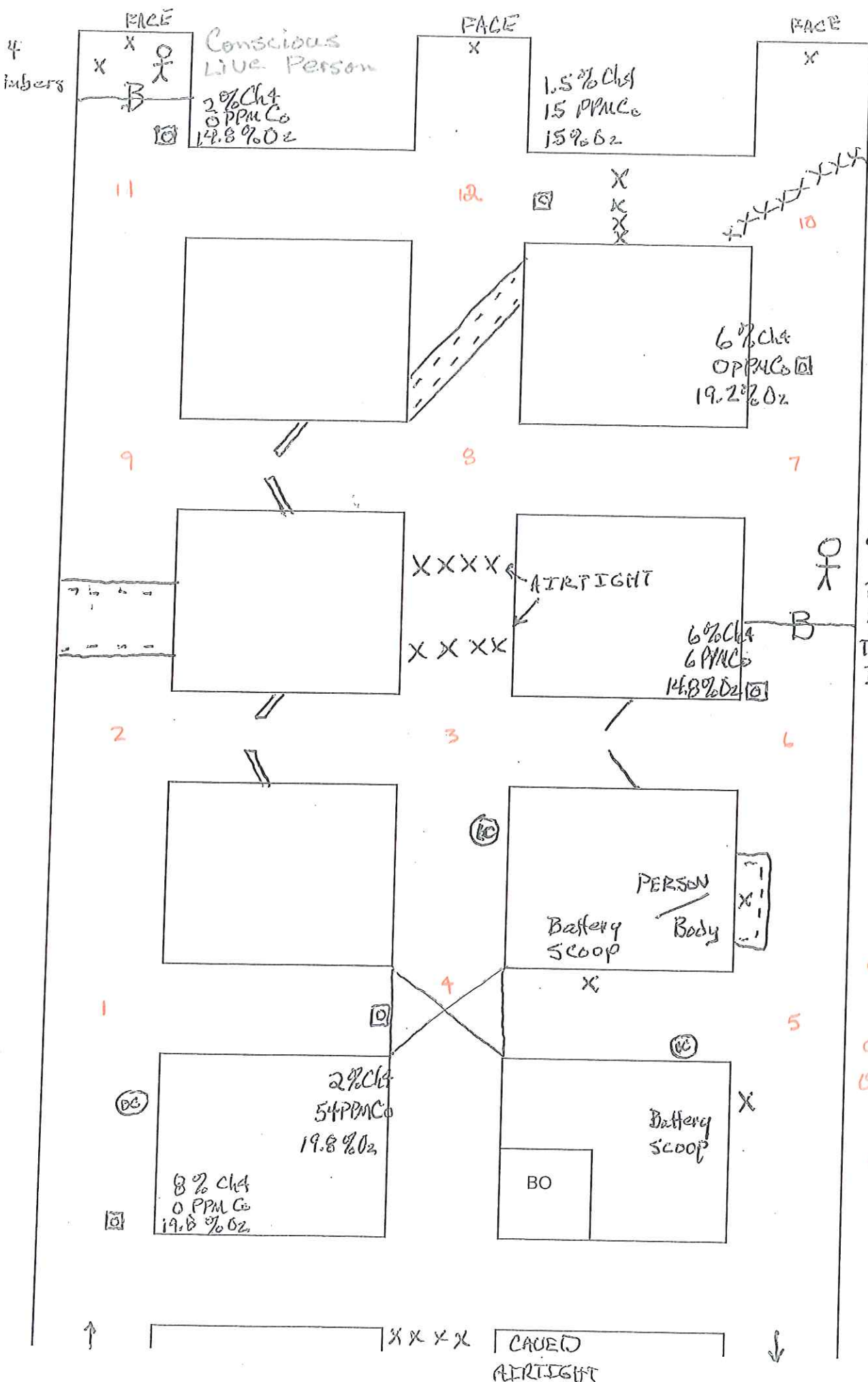
Extent
OF
Gases



↑



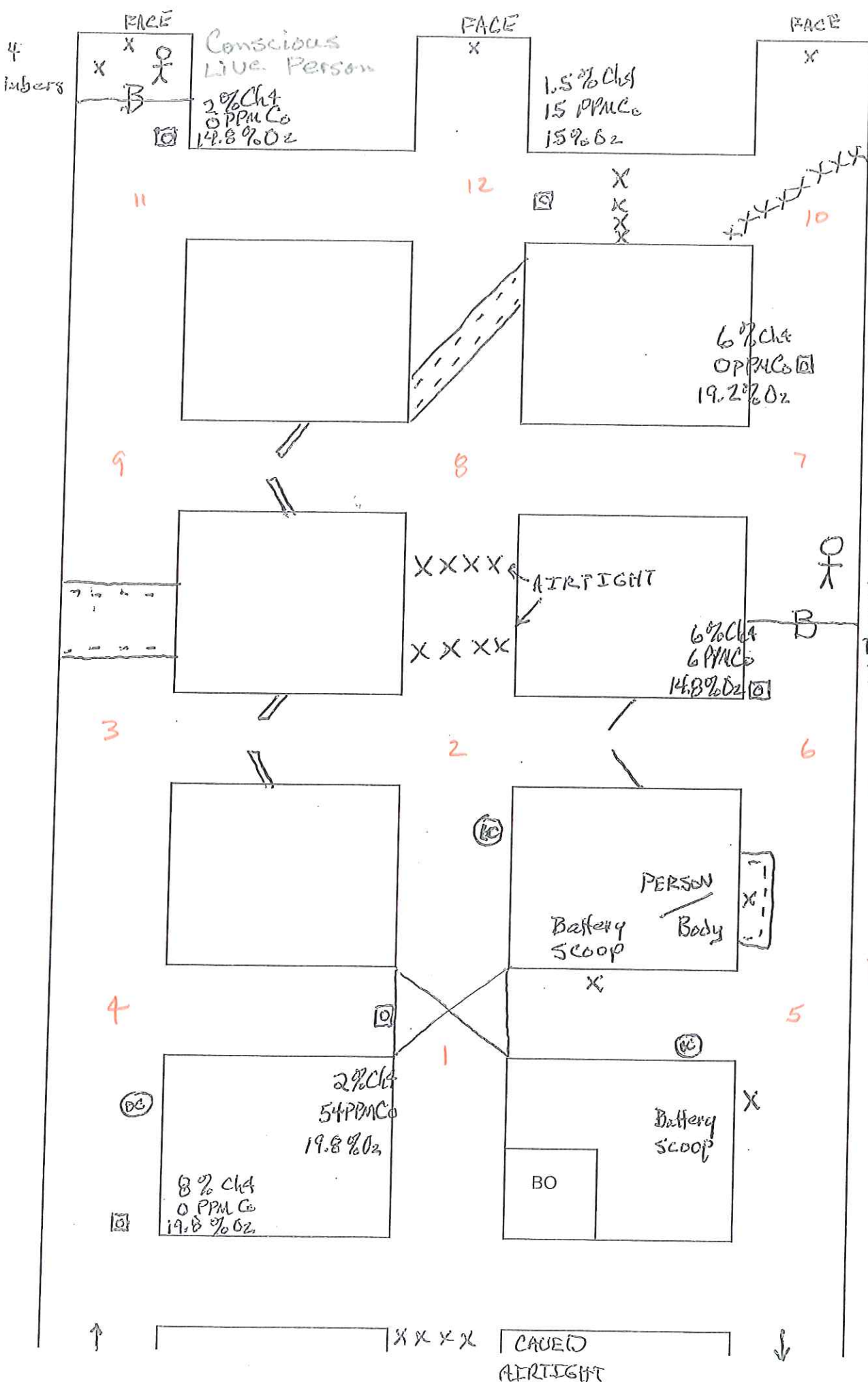
↓



Conscious Live Person
Life Threatening Bleed

Team Stops
5 and 6 could be reversed depending on direction of travel

CAUTION AIRFIGHT



Conscious
Live
Person
Life
Threatening
Bleed

5+6 could
be
reversed

ALTERNATE
STOPS
Traveling
Adjacent

CAVED
AIRFIGHT

4
Inbers

FACE

RIB
Roof
FACE

FACE

RIB
Roof
FACE

FACE

2% CH₄
0 PPM CO
14.8% O₂

1.5% CH₄
15 PPM CO
15% O₂

X
X
X
X

XXXXXXXXXX

Any Form
of Zig Zag
Will do

6% CH₄
0 PPM CO
19.2% O₂

XXXXX AIRTIGHT

XXXXX

6% CH₄
6 PPM CO
14.8% O₂

Conscious
live
Person
Life
Threatening
Bleed



B

(C)

PERSON
Battery
SCOOP
Body



Root
Test
And
anywhere
a build
is
required

(C)

2% CH₄
54 PPM CO
19.8% O₂

8% CH₄
0 PPM CO
14.8% O₂

(C)

(C)

Battery
SCOOP

BO



XXXXX

CAVED
AIRTIGHT



the neck to and including the feet and placed so as not to crimp air hoses. The bandages or straps shall be fastened perpendicular to the patient's body.

All unconscious patients must be brought to the fresh-air base on stretchers.

12. Failure to conduct a complete initial assessment of each patient. _____ 2

An initial assessment must be conducted of all live persons who are encountered during the working of the problem. The assessment should commence once the captain has physically made contact with the person. Any of the five working team members may be utilized to conduct the assessment. However, the team member starting the assessment of a live person will continue and complete the assessment.

When assessing a conscious live person, a team member must physically contact the patient.

1. Ask if he/she is okay; asking person if he/she is "alright" will suffice.
2. If present, control life threatening bleeding according to critical skill sheet (rule 34).

When assessing an unconscious live person, a team member must physically contact patient.

1. Ask patient if he/she is okay; asking if he/she is "alright"
2. Look for absence of breathing or gasping, verbalize assessment.
3. Check for presence of a carotid pulse (5-10 seconds).
4. If present, control life threatening bleeding according to critical skill sheet (rule 34).

Injuries will be limited to one life threatening, bleed to patient's extremities during the problem.

~~All live persons will be considered to have no injuries or life threats upon examination by the team member and may be loaded if needed onto the stretcher and taken to the FAB once the assessment is complete.~~

Injury must be identified by lettering on labels will be at least ¼-inch in height.

The team must stop and the captain examine, by touching with his or her hand, all missing persons (live persons or body) prior to any team member passing the location of the missing person. This will not be considered a team stop by the rules for the purpose of gas testing.

If the Captain cannot physically examine a missing person located under elongated unsafe roof due to a lack of roof support, a team stop will not be required.

If roof support is provided, bodies located under unsafe roof must be examined before the clock is stopped and after all missing persons have been accounted for. See Figure 3.

33. Failure to bring live person to the fresh-air base, each omission___20

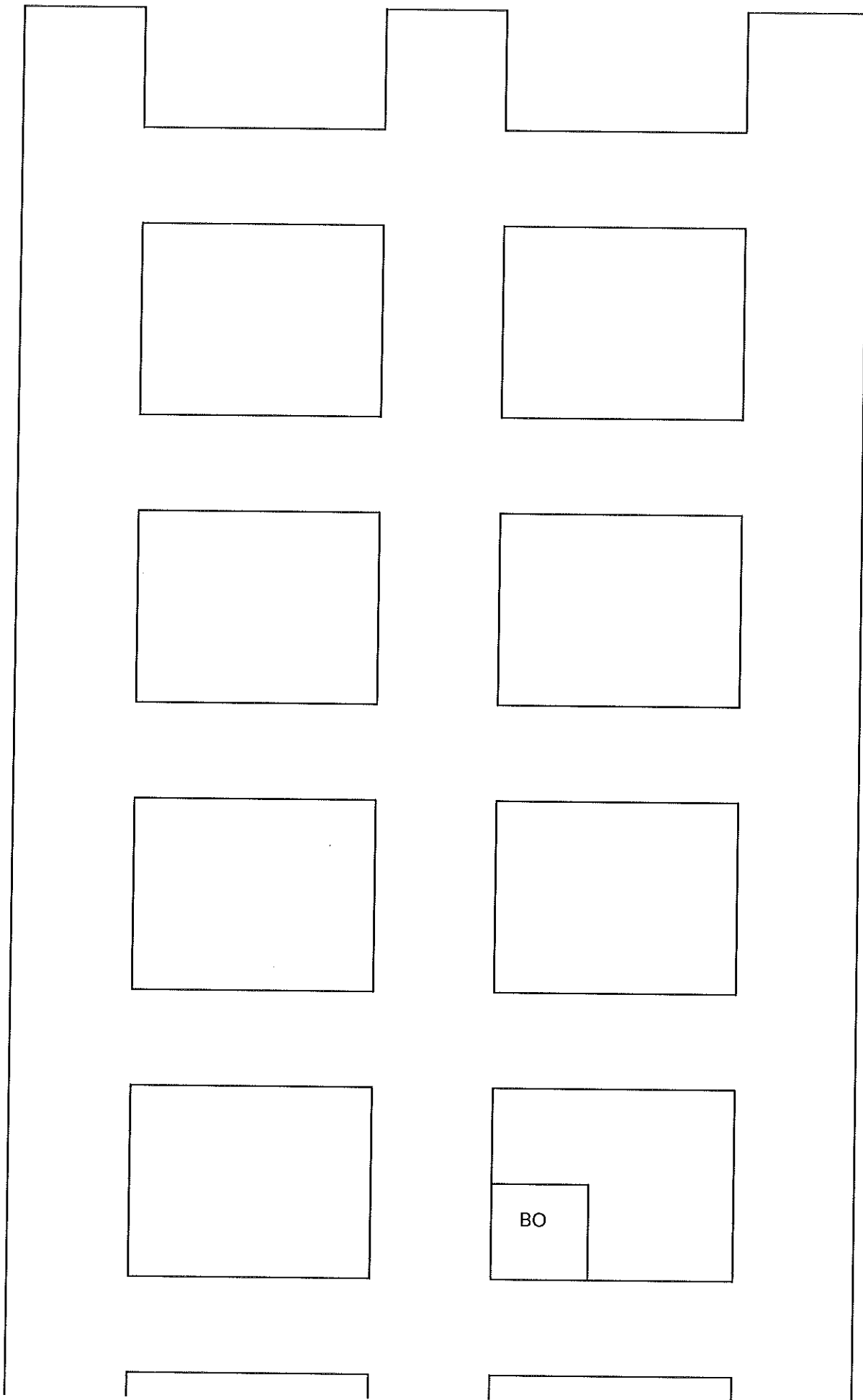
Self-explanatory

34. Failure to properly protect a live or potentially live person(s), each omission___10 (Part A: 10 points; Part B: 2 points each critical skill maximum of 10 points)

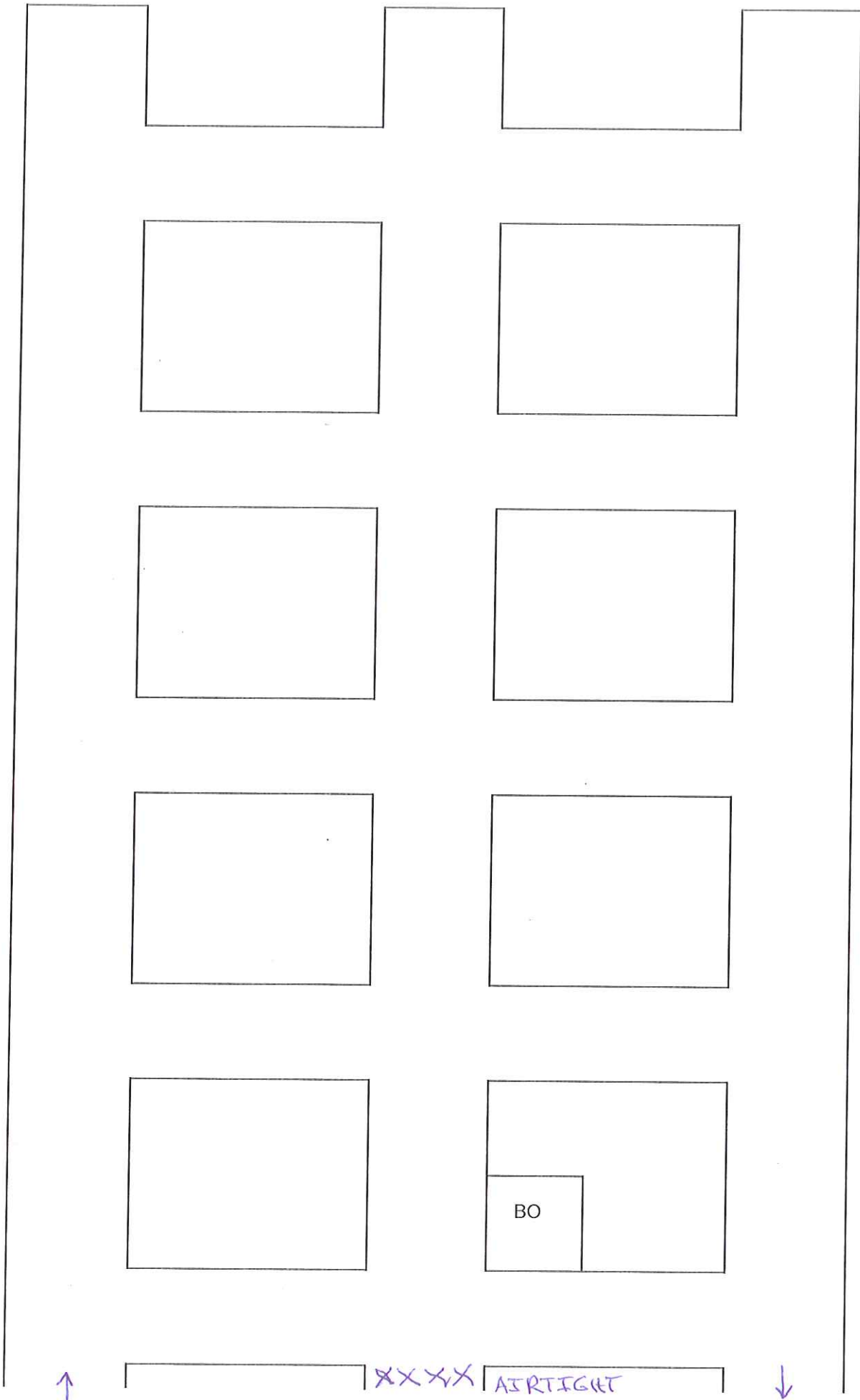
A. Proper protection must be used on persons exposed to or found in irrespirable atmospheres. Atmospheres containing less than 19.5 percent oxygen, concentrations of carbon monoxide in excess of 50 PPM or smoke are irrespirable atmospheres. In an irrespirable atmosphere, unconscious patients must be protected by an approved breathing apparatus or device with full face piece. On a conscious person, if conditions permit, an approved self-rescuer may be used. Training models may be used if sterilized and properly assembled. Simulation of proper donning of approved respiratory apparatus shall not be permitted.

B. Critical skill treatment for life threatening bleeding.

1. <u>Direct pressure and elevation</u>	<p>A. <u>Apply direct pressure with a gloved hand</u> B. <u>Apply a dressing to wound (cover entire wound) and continue to apply direct pressure</u> C. <u>Elevate the extremity except when spinal injury exists</u> D. <u>Bleeding has been controlled</u> E. <u>If controlled, bandage dressing in place</u></p>
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Final Ventilation



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AIRTIGHT

