

2019

**SIC SKILLS**

# 2019 SIC Skills Mine Rescue

## Statement

Thanks for responding to our situation and welcome to the “Red Oak #5 Mine”. You are located at the fresh air base which is in the #1 crosscut of the Main North.

This morning a four man crew was sent in 3 hours early to prepare for the day shift production shift. This four man crew went to the 3<sup>rd</sup> West headgate development section which is a 3 entry development section. The scoop man was outby the 3<sup>rd</sup> West section and was in the Main North loading roof bolts in his scoop when he smelled smoke exiting the 3<sup>rd</sup> West entries. The scoop man made his way out of the mine and heard no word from the other miners. All attempts to reach them have failed.

This 3<sup>rd</sup> West Headgate section has recently experienced poor roof conditions, water, and high accumulations of methane.

The fan is a blowing fan that is on and can be stopped or started by asking the command center. Mine maps are up to date. All authorities have been notified. Please be careful during your exploration. Thank you for your help.

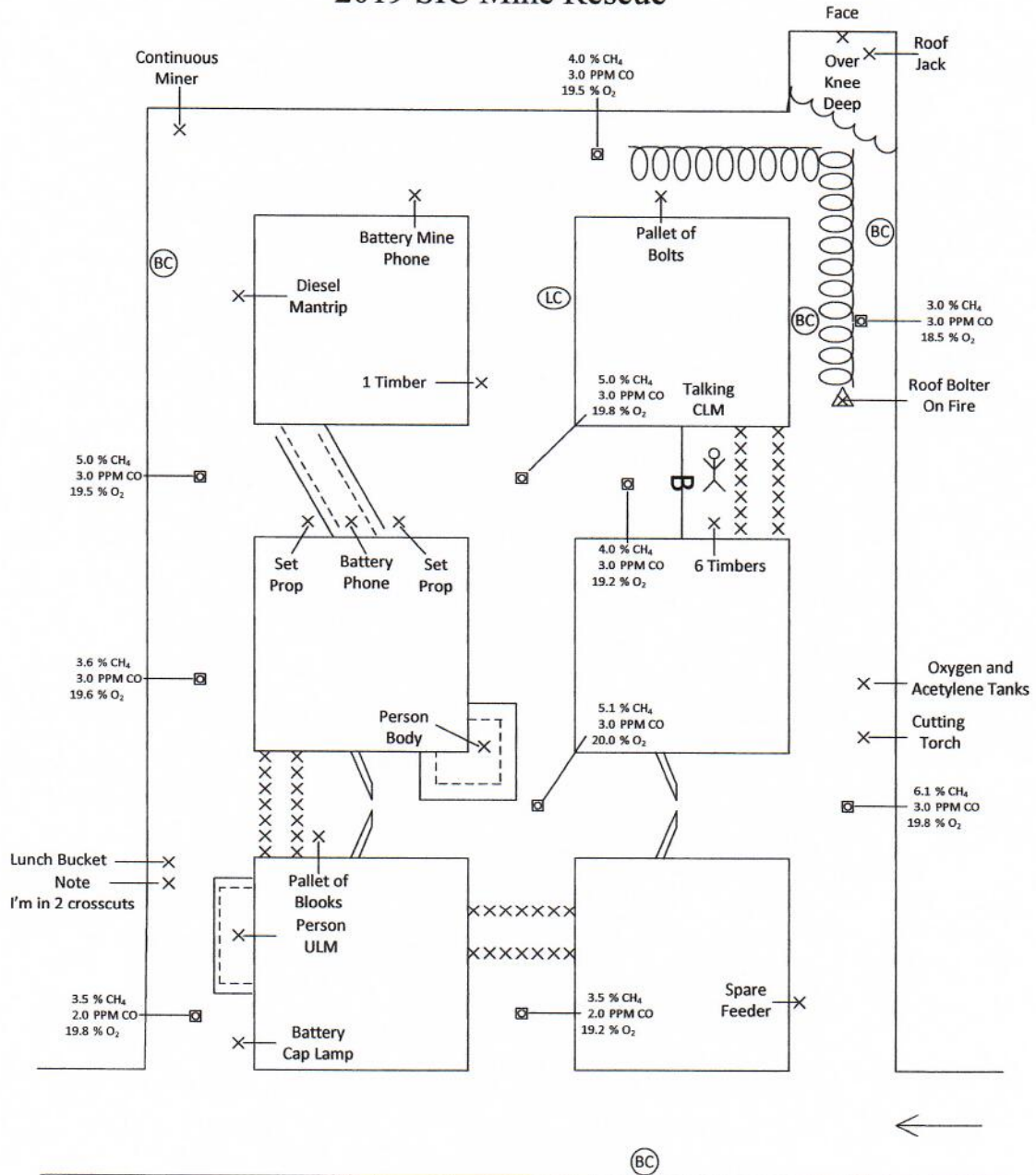
# 2019 SIC Skills Mine Rescue Written Problem

- Explore the entire mine where it safe to do so
- Account for all missing persons and bring all live people to the fresh air base
- You may only carry two sets of building material
- Team must get approval from Superintendent before making air changes
- Clear all contaminants
- There is a 60 minute time limit

# Keys to the Problem

1. 2 - man team advances up #1 entry to 1<sup>st</sup> crosscut.  
2 - man and 1- man teams advance up #3 entry to 1<sup>st</sup> crosscut.  
Number 1 - man team advances across to open crosscut to the #2 entry. (Number 1- and 2-man teams may reverse roles at in entries 2 and 3).
2. 2 + 2 + 1 teams advance together up to the 2<sup>nd</sup> crosscut. #1 entry team ties across to the unsafe roof. #2 entry team ties across to the barricade and then to the unsafe roof in crosscut. #3 entry team remains in the intersection until #1 and 2 teams are done.
3. #3 entry team finds smoke. #1 and 2 entry teams must retreat out and go to the #3 entry and advance up and join #3 entry team. Together they advance through the smoke to the face crosscut. Water over knee deep must be addressed before team advances into crosscut or into the face area.
4. Teams tie across to the #2 entry where #2 entry team ties back outby. #1 entry team advances to the #1 entry and ties in #1 entry outby.
5. Team members join back together to ventilate.
6. First Vent – Teams can clear contaminates past persons in unsafe roof as they are respirable.
7. All persons are accounted for so low oxygen can pass through the caved, unsafe roof, and water.
8. Battery mine phone in unsafe roof prohibits any explosive mixtures from passing through this area. (No timbers are available until the barricade is breached).
9. Gas test at face area in #3 entry must reach inby the crosscut entry at water over knee deep.

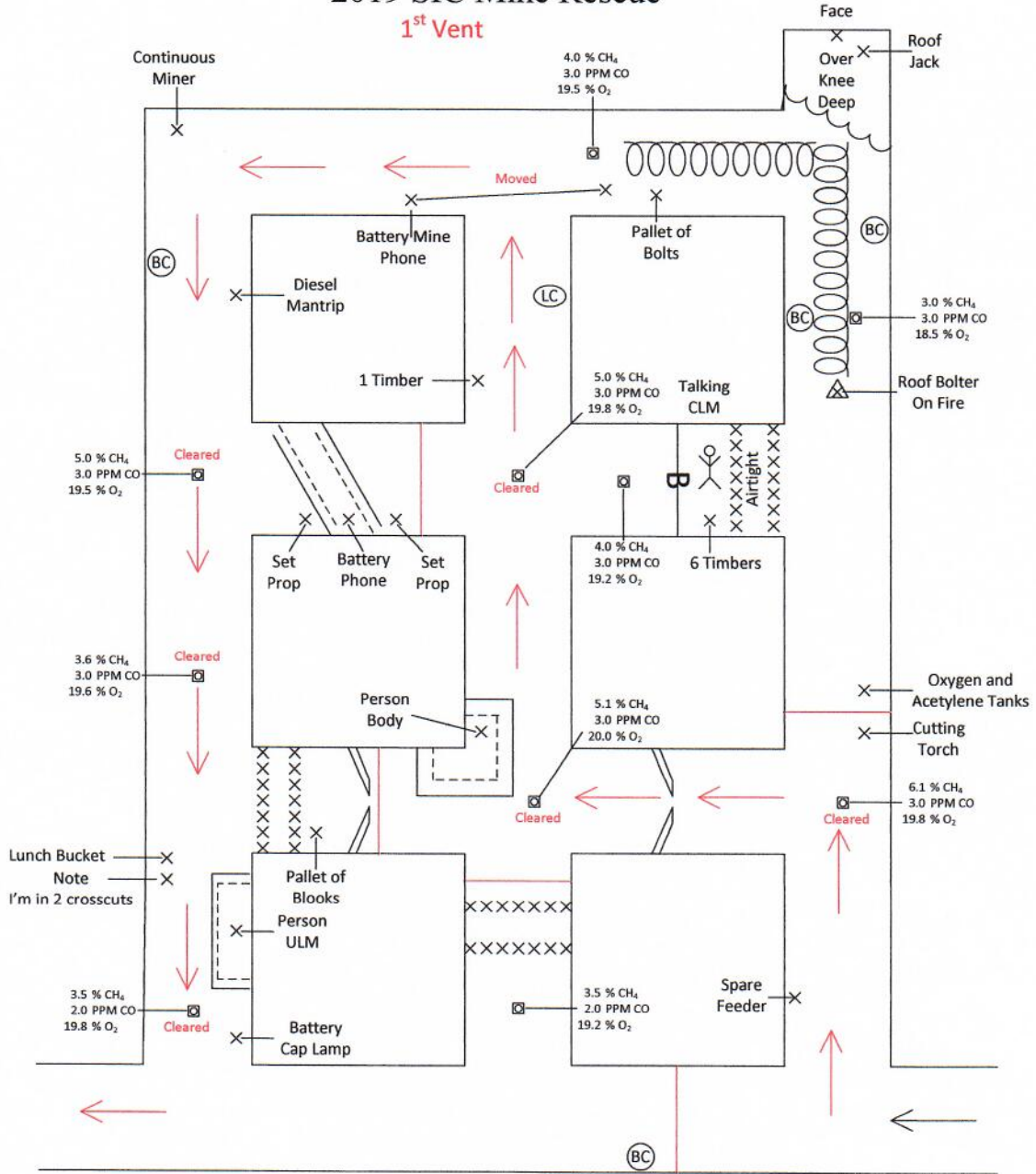
# 2019 SIC Mine Rescue



- Team Map
- Briefing Officer Map

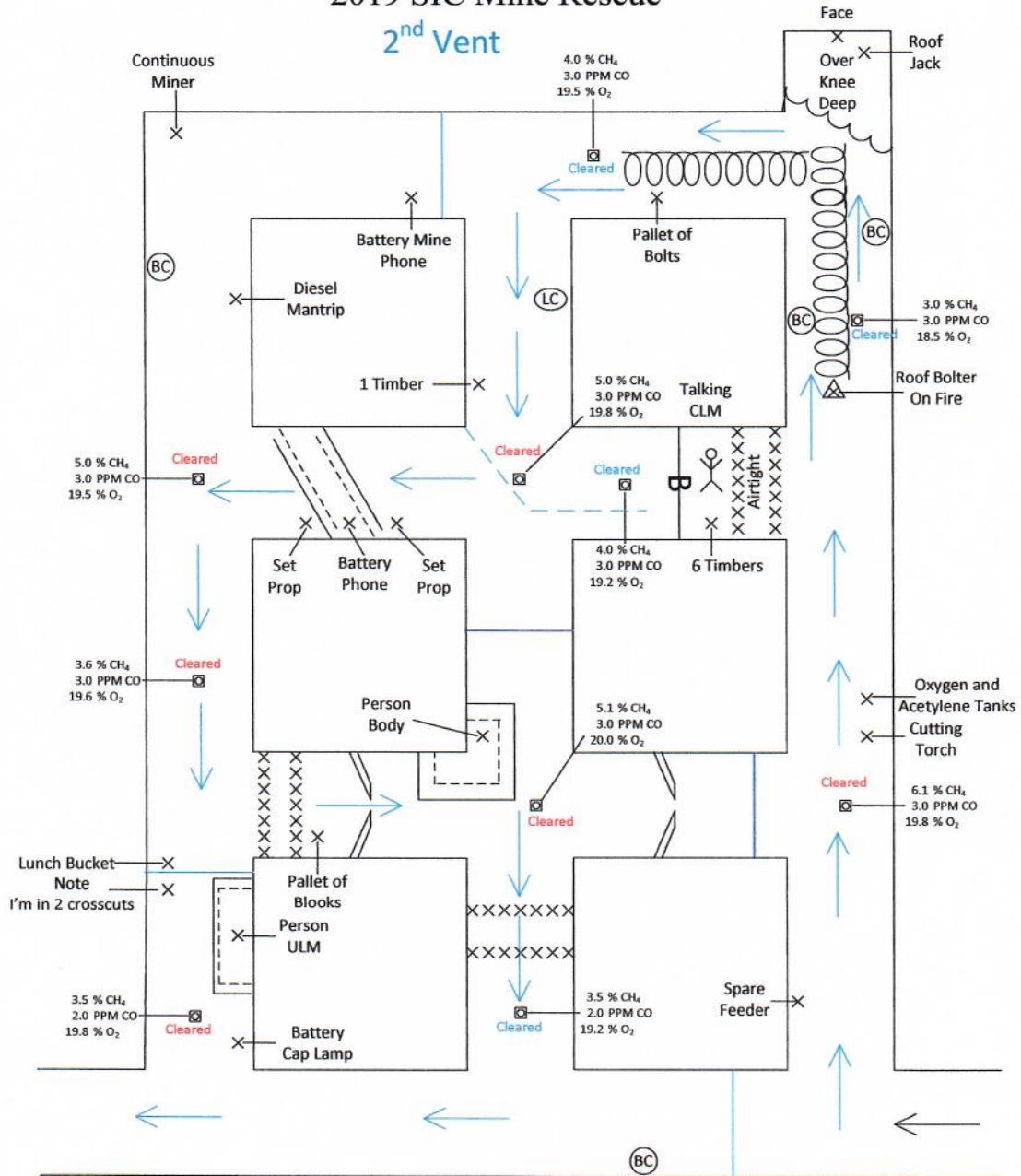
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1<sup>st</sup> Vent



- Team Map
- Briefing Officer Map

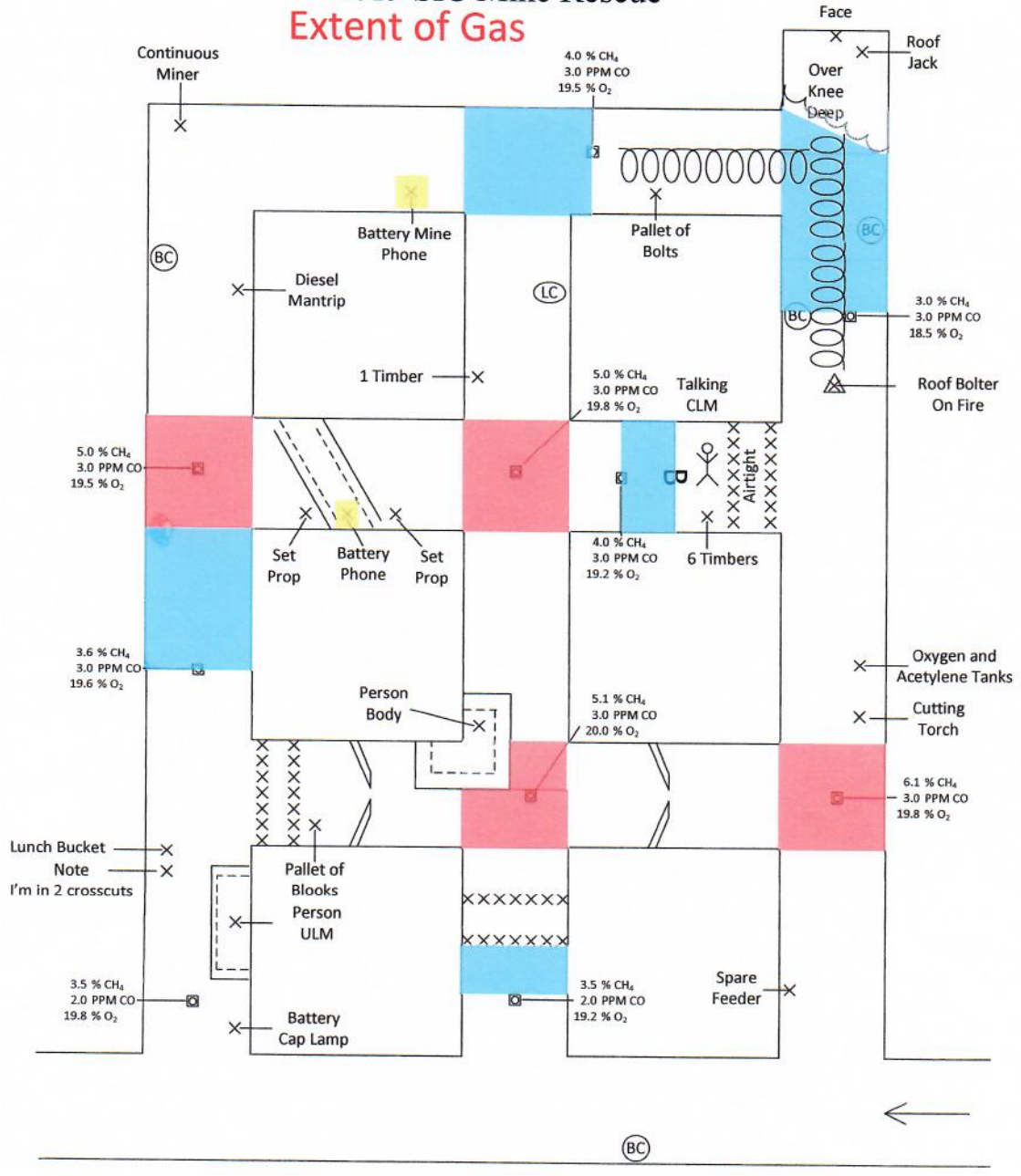
# 2019 SIC Mine Rescue



Team Map

Briefing Officer Map

# 2019 SIC Mine Rescue Extent of Gas



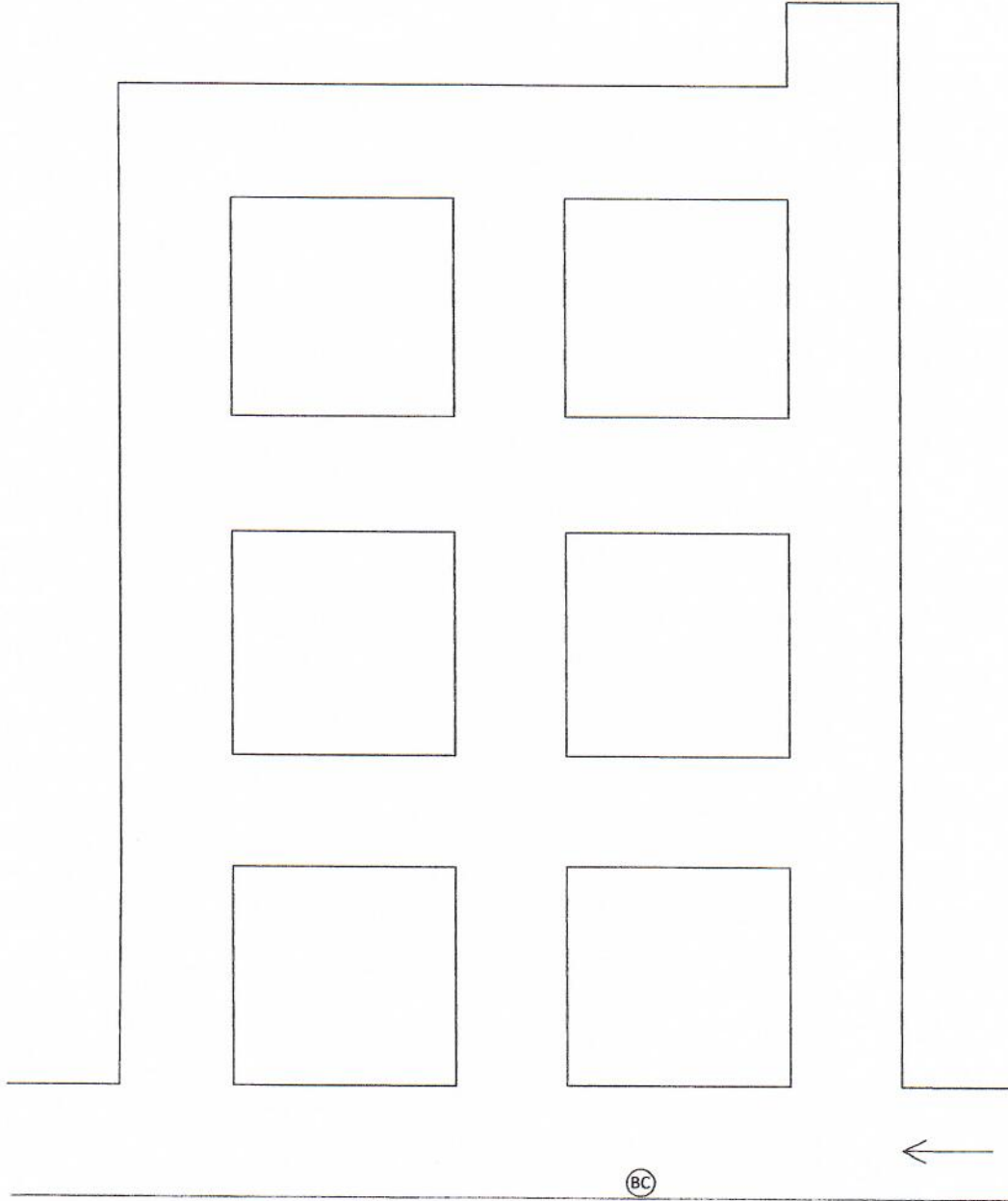
- Team Map
- Briefing Officer Map



# Patient Statement

Get me out of here

# 2019 SIC Mine Rescue



- Team Map
- Briefing Officer Map