

**2015**  
**NATIONAL MINE**  
**RESCUE CONTEST**



**DAY 1**  
**SEPTEMBER 15, 2015**

**2015 National Mine Rescue Contest**  
**Day 1**  
**September 15, 2015**  
**Superintendent Statement**

Thank you for answering our call for help. I am the mine superintendent. You are located on the surface of the Coal Keeps the Lights On Big Blue Mine. We are a small coal company just trying to make an honest living. We only work one shift per day. We produce coal most of the day, then do maintenance work just before quitting time.

This mine is a slope and shaft mine. The #2 entry slopes down into the mine, and that's how we access the mine. There is an Return Fan Shaft located in the #3 entry, and will be shown on the maps given to you before you go underground. We started this mine just a few weeks ago and have driven 5 breaks from the portal. This seam has a lot of bad top so far, and there are a lot of gas wells in the area. There is the possibility of water problems, and the mine does make methane.

This morning, our seven man crew went in around 7 am. Things were going well until about 8:30, when the outside man heard a loud noise and the fan went off. He tried to call underground but didn't get anyone. A few minutes later the two men who were working near the bottom of the slope came outside. They reported hearing a rush of air and saw a lot of dust and then the air stopped moving. They couldn't see enough to try to find anyone else, so they followed the lifeline to the surface. I started to go in to look for people, but it was still too dusty, so I called for help.

This mine is walking height, about 7 feet high. Right now, all electrical power going underground is off, locked out, and being guarded. The phone system may be working, but we can't get in touch with anyone. The tracking system showed the five missing miners to be near the face when the power knocked, but I ain't sure that is where they are still at. The fan is off, but the command center can start and stop the fan when you ask them to. The fan can also be operated in exhaust or blowing modes, but please don't stall the fan, because it may tear it up.

Federal and State authorities have been contacted and are on-site. We have back-up mine rescue teams available, but they won't be able to do any work for you. We also have a competent life-line person to take and return your signals if needed.

Any face-down placards must be turned over by the captain before passing them.

Please find our missing miners. Thank you, and good luck.

*Condo Predated  
D&I Rule  
27*

*2pts  
(Rule 49)*

# **PROBLEM**

**COMMAND CENTER MUST ASK SUPERINTENDENT IN WRITING WHICH DIRECTION TEAM WANTS AIR FLOW FROM THE FAN EVERY TIME FAN CHANGE IS MADE**

**REPORT TO SUPERINTENDENT ANY OBJECTS OR EQUIPMENT THAT ARE ON FIRE**

**YOU CAN ONLY CARRY TWO SETS OF BRATTICE CLOTH WITH YOU AT A TIME**

**DO NOT STALL THE FAN**

**EXPLORE ALL AREAS OF THE MINE THAT ARE SAFE TO DO SO TO LOCATE AND MAP ALL HAZARDOUS GASES**

**YOU HAVE 75 MINUTES TO WORK THE PROBLEM THEN YOU WILL BE REPLACED BY ANOTHER TEAM**

# FAN CHANGE REQUESTS

REQUEST #1

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

REQUEST #2

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

REQUEST #3

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

REQUEST #4

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

REQUEST #5

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

REQUEST #6

BLOWING \_\_\_\_\_ EXHAUSTING \_\_\_\_\_

**OBJECTS ON FIRE REPORTED**

**OBJECT #1** \_\_\_\_\_

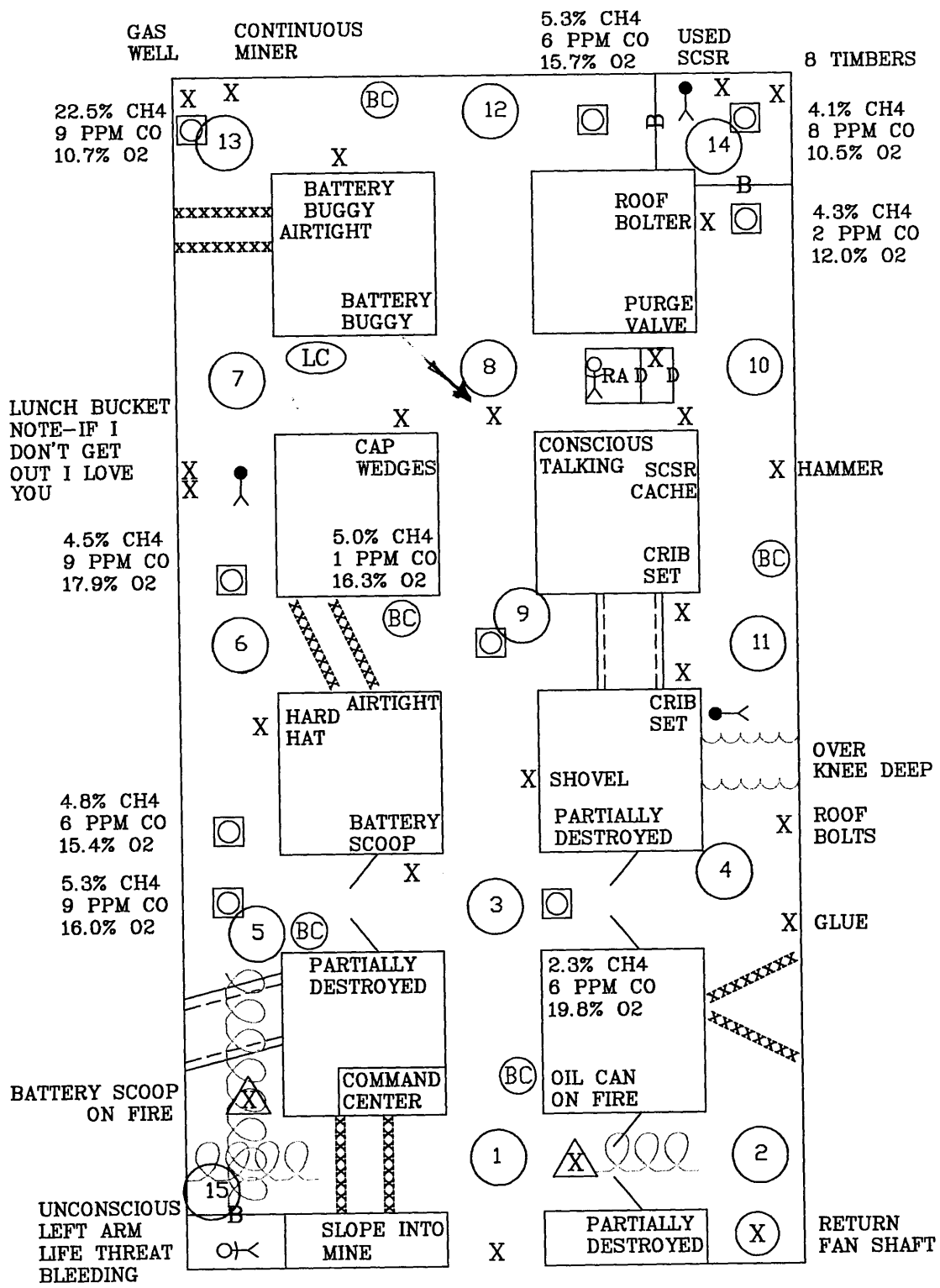
**OBJECT #2** \_\_\_\_\_

# **RA STATEMENT**

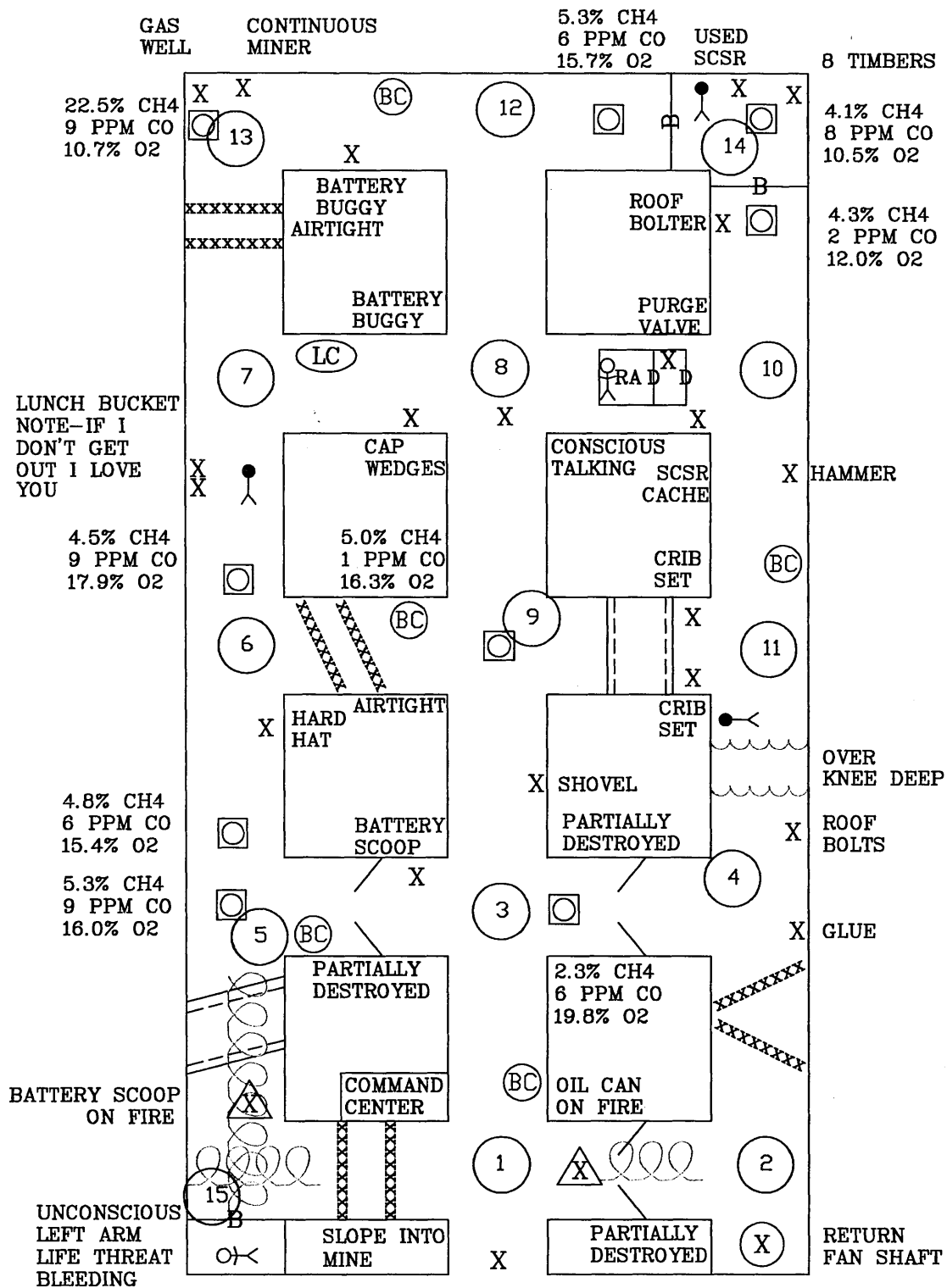
**HELP! GET ME OUT OF HERE!**

**I AM IN HERE BY MYSELF!**









22.5% CH4  
9 PPM CO  
10.7% O2

4.5% CH4  
9 PPM CO  
17.9% O2

4.8% CH4  
6 PPM CO  
15.4% O2

5.3% CH4  
9 PPM CO  
16.0% O2

5.3% CH4  
6 PPM CO  
15.7% O2

USED  
SCSR

8 TIMBERS

4.1% CH4  
8 PPM CO  
10.5% O2

4.3% CH4  
2 PPM CO  
12.0% O2

OVER  
KNEE DEEP

ROOF  
BOLTS

GLUE

RETURN  
FAN SHAFT

LUNCH BUCKET  
NOTE-IF I  
DON'T GET  
OUT I LOVE  
YOU

BATTERY SCOOP  
ON FIRE

UNCONSCIOUS  
LEFT ARM  
LIFE THREAT  
BLEEDING

HAMMER

BATTERY  
BUGGY  
AIRTIGHT  
  
BATTERY  
BUGGY

ROOF  
BOLTER  
  
PURGE  
VALVE

CAP  
WEDGES  
  
5.0% CH4  
1 PPM CO  
16.3% O2

CONSCIOUS  
TALKING SCSR  
CACHE  
  
CRIB  
SET

HARD  
HAT  
  
AIRTIGHT  
  
BATTERY  
SCOOP

CRIB  
SET  
  
SHOVEL  
  
PARTIALLY  
DESTROYED

PARTIALLY  
DESTROYED  
  
COMMAND  
CENTER

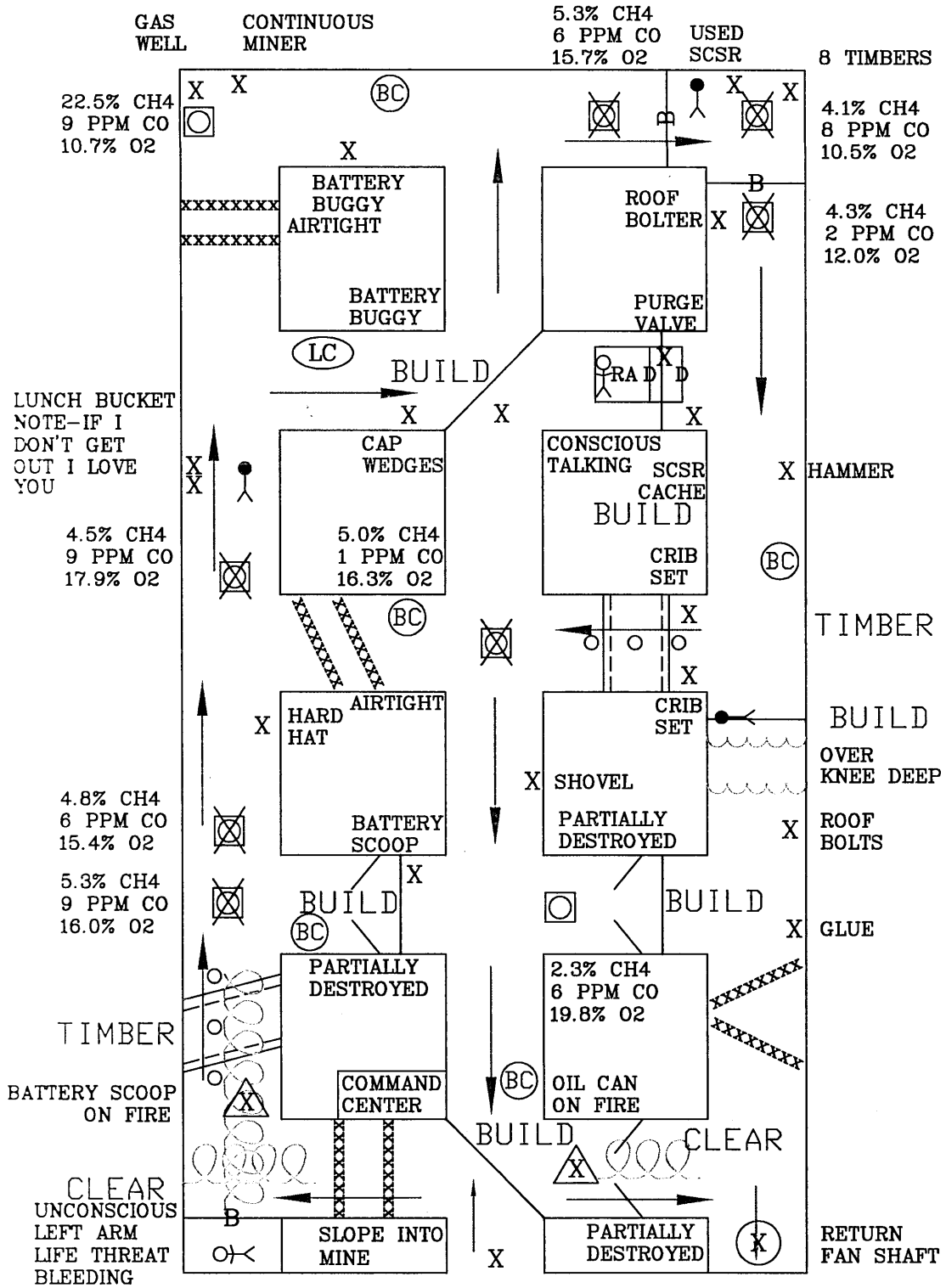
2.3% CH4  
6 PPM CO  
19.8% O2  
  
OIL CAN  
ON FIRE

SLOPE INTO  
MINE

PARTIALLY  
DESTROYED



# VENT 2



# FINAL VENTILATION

