

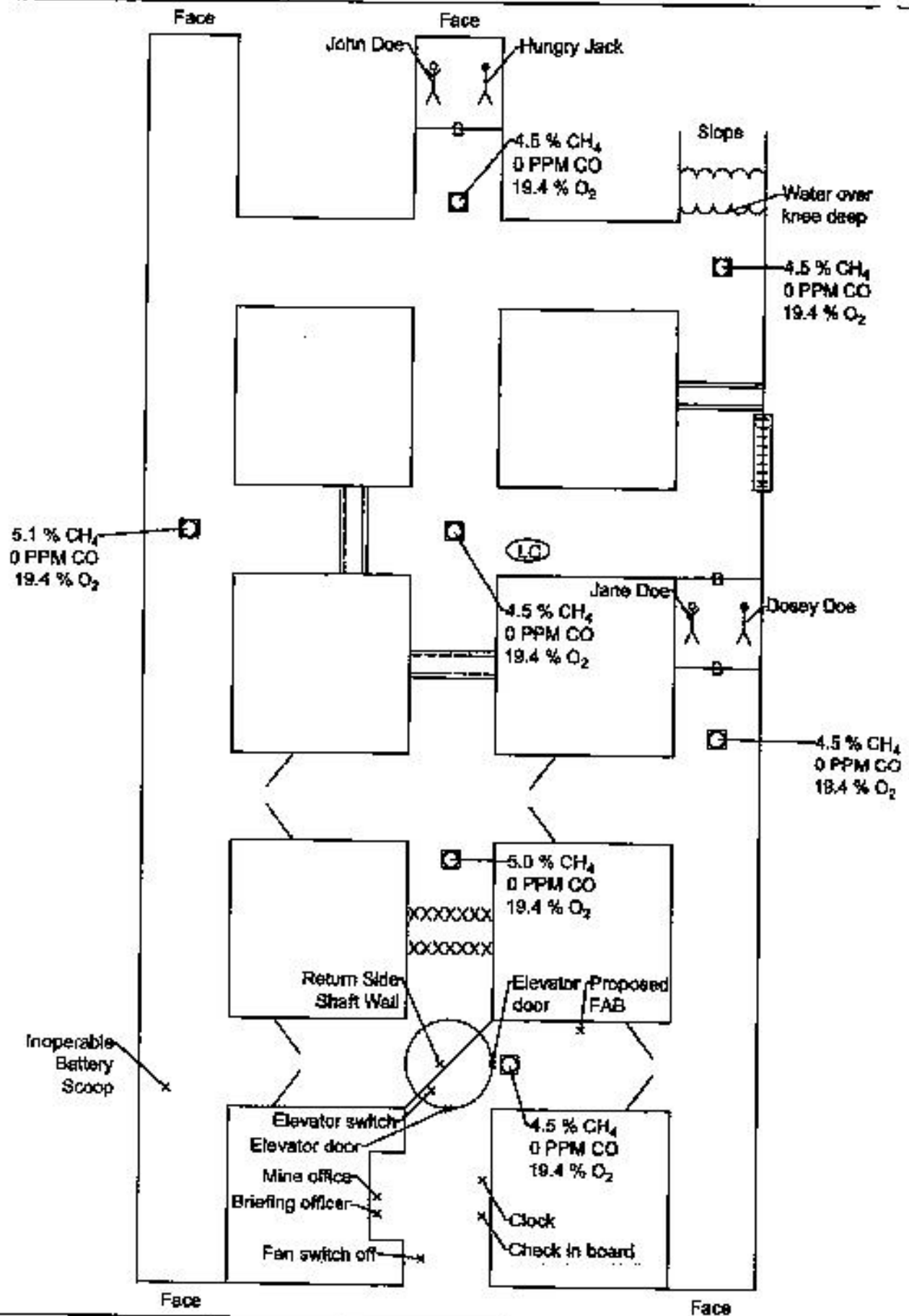
Hatfield & McCoy Mine Safety Competition Day 2

MINE RESCUE PROBLEM



2013 Hatfield & McCoy Mine Safety Competition - Mine Rescue

Day 2



Hatfield & McCoy Mine Safety Competition Day 2 Statement

Welcome, you are outside in the box-cut area of the Little Production Coal Mine. This morning a four man crew entered the mine via the intake elevator to examine the mine after being idle for their two week summer vacation. The crew leader, foreman John Doe, called out around 9Am this morning to the outside person to report water at the slope bottom area. Then around 9:30Am the outside person stated a rush of air came back out the intake shaft and the fan shut off. Several attempts were made trying to contact the crew underground by the outside person before contacting the MSHA hot line to report this event. All underground power is off and locked and guarded. MSHA, OMSL, and other mine rescue teams are here to serve as your back-up. The fan is located on the split shaft here in the box-cut and can be started by the team when needed. This mine is a new box-cut, shaft and slope operation and is in the Elkhorn #1 seam that is known for methane, bad roof conditions, and water. A life line judge is available to help you. A copy of the problem and maps will be given to the team when the clock is started.

GOOD LUCK

WORKING PROBLEM

(1)---ACCOUNT FOR ALL MISSING CREW MEMBERS AND BRING LIVE MEMBERS TO THE SURFACE.

(2)---CALL THE NAMES OF EACH MISSING MEMBER OUT TO THE SURFACE, BEFORE LEAVING THE STOP TO BRING LIVE MEMBERS TO THE SURFACE.

(3)---CALL OUT THE LOW MAN'S NAME AT EACH TEAM APPARATUS CHECK TO THE BRIEFING OFFICER AND HIS O2 READING.

(4)---THE FAN IS AN EXHAUST FAN AND ONCE STARTED IT CAN NOT BE STOPPED, STALLED OR REVERSED.

(5)---A PROPOSED FRESH AIR BASE (FAB) IS SHOWN ON BOTH MAPS AND MUST BE MADE READY FOR BAREFACE USE IMMEDIATELY WHEN MEANS IS MADE AVAILABLE.

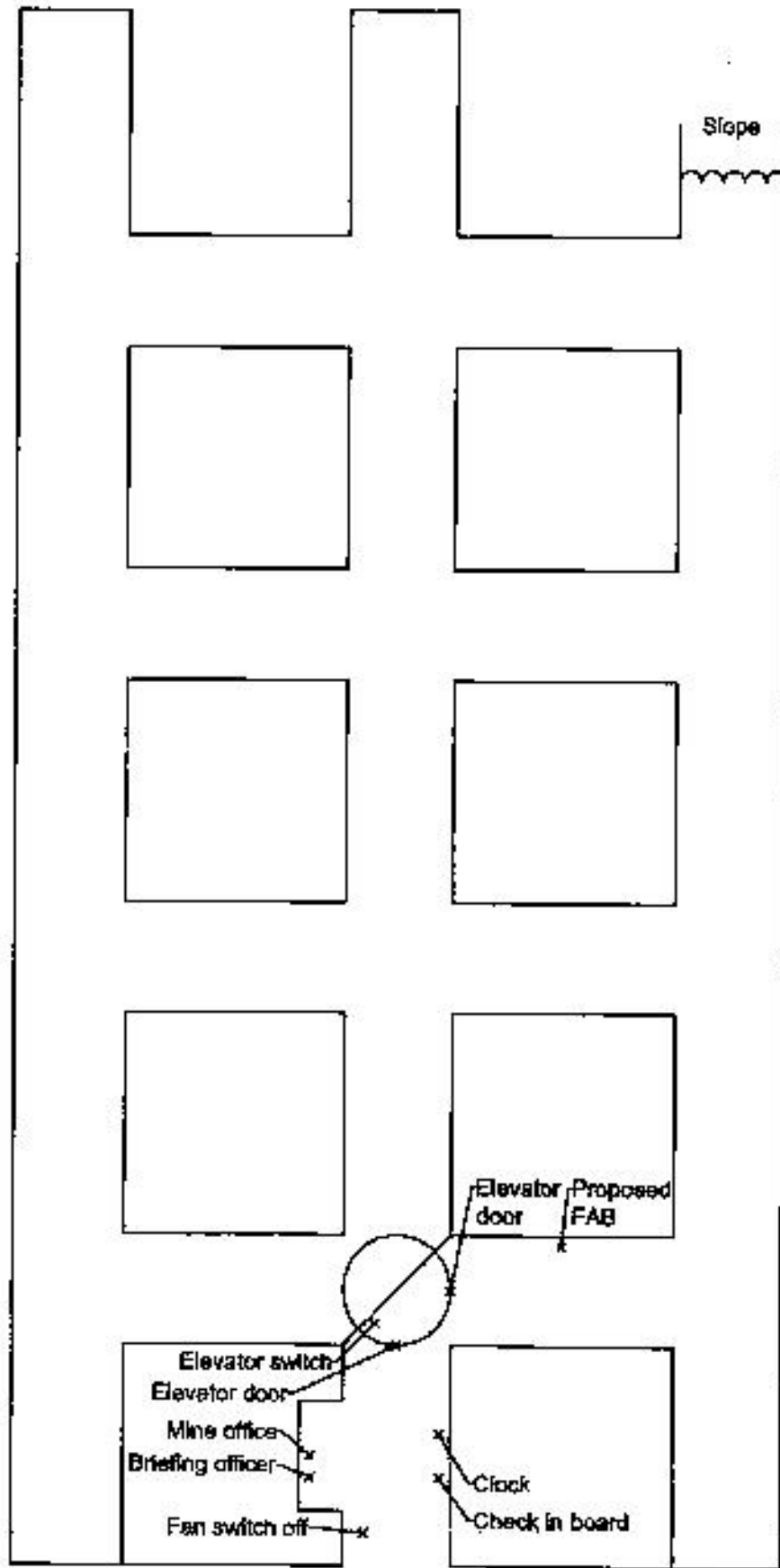
(6)--- MINE RESUE TEAMS HAVE MADE THE SLOPE ENTRY DOWN TO THE TOE OF THE WATER AND IS SHOWN ON BOTH MAPS AND THE MAP IS UP-TO-DATE.

(7)---TEAMS MUST ENTER THE MINE USING THE ELEVATOR LOCATED IN THE INTAKE SIDE OF THE SHAFT. BOTH DOORS ON THE ELEVATOR MUST BE CLOSED WHEN IN USE AND A UP AND DOWN SWITCH IS PROVIDED AND MUST BE USED.

(8)---YOUR TEAM HAS 60 MINUTES TO WORK THE PROBLEM BEFORE BEING REPLACED BY ANOTHER TEAM.

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Day 2 - Team Map



Patient Statement #3 Barricade

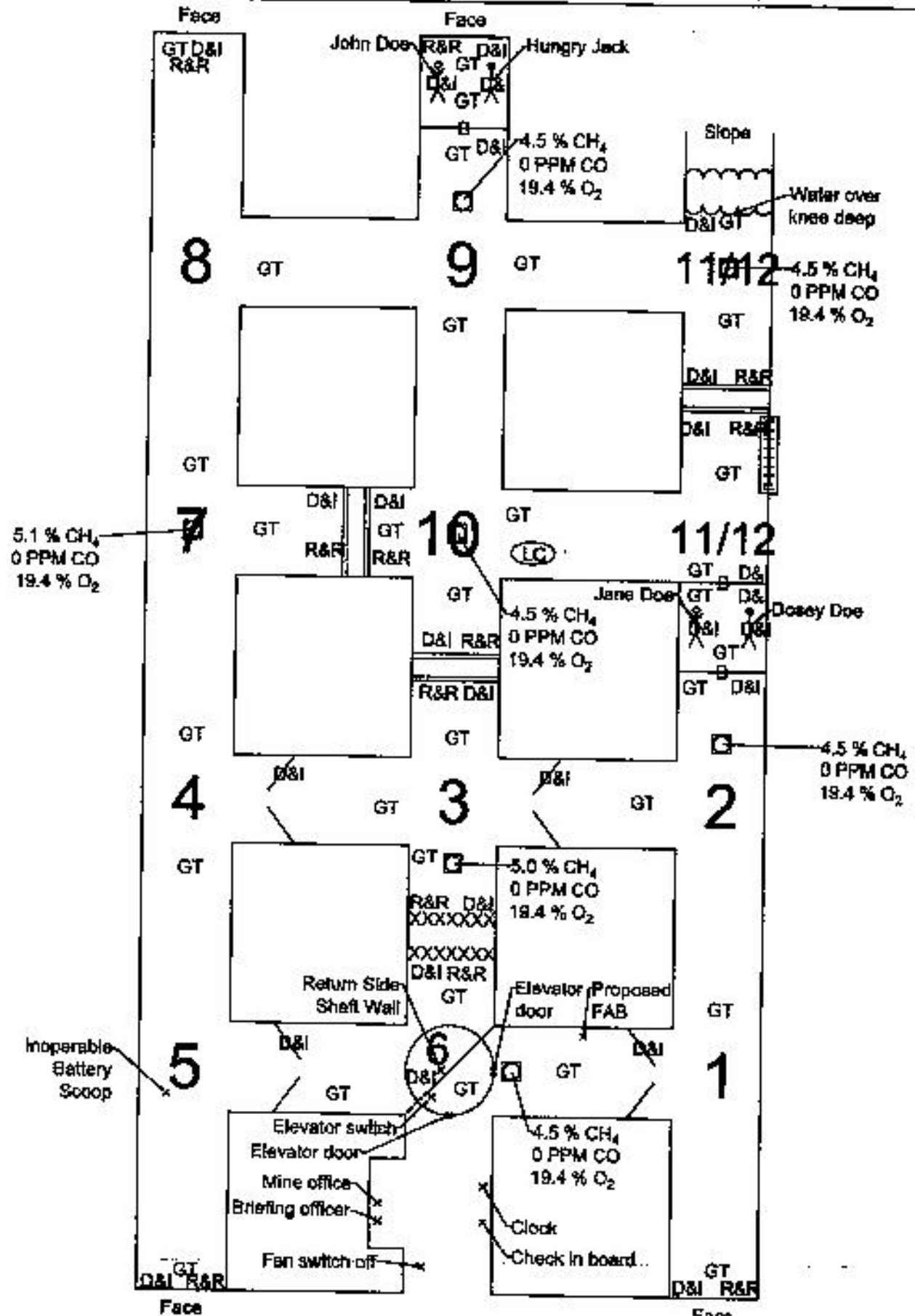
Help get me out of here!!

Patient Statement #2 Barricade

Help get me out of here!!

Hatfield & McCoy Mine Safety Competition - Mine Rescue

Day 2 - Team Stops, Roof & Rib, Date & Initial, Gas Test



TEAM STOPS

The team travels underground on the elevator, which is provided in the intake side of the airshaft. The team must do a gas test in the elevator (rule24A). The team must use the provided up & down switch, and both doors must be closed during use, (rule51). The 1st equipment examination must be made within 50ft of the bottom of the air shaft (Rule 28). When the team exit the elevator a gas test is required in the crosscut before team advances to team stop #1 (rule24B) and the captain must place date and initial on the temporary stopping not intact (rule27).

Stop#1 gas test is required at the inby opening of the intersection (rule24B). At the face— roof, face and ribs test (rule23), also gas test (rule24A) and date/initial (rule27).

Stop#2 gas test required in the crosscut opening of the intersection (rule24B). Gas test at the barricade (rule24A) and date/initial (rule27). The captain must place date and initial on the temporary stopping not intact (rule27). The person behind the barricade states, (get me out). 19.4%O₂ is located at the barricade. No means to ventilate.

Stop#3 gas tests after breaking all 3 openings of the intersection (rule24B). Roof and rib test at caved area and unsafe roof (rule23). Date and initials at both roof conditions that stopped the teams travel (rule27). The captain must place date and initial on the temporary stopping, not intact (rule27).

Stop#4 gas test inby and outby opening to the intersection (rule24B) and must advance outby to stop #5 (rule45D).

Stop#5 gas test required crosscut opening to the intersection (rule24B). At the face— roof, rib and face test (rule23). Date/initial (rule27) and gas test (rule24A). The captain must place date and initial on the temporary stopping not intact (rule27).

Stop#6 one gas test required when breaking inby opening to the intersection (rule24B). Date/Initial at shaft wall due to stopping teams travel,(rule27). Roof and rib test at caved area (rule23), and date/initial caved area stopped team travel (rule27). Team is now required to following written instructions and ventilate to clear gas 19.4%O₂ in crosscut at proposed (FAB). If team continues to explore (rule51).
(SEE 1ST VENTILATION)

The fan is now running and cannot be stopped, stalled or reversed. The team must airlock to travel inby in #1 entry to get to stop #7 if not gases inby will be moved, due to slope opening.

Stop #7 A gas test is required in the inby opening and the crosscut opening to the intersection (rule24B). Roof and rib test is required at the unsafe roof (rule23) and date and initial due stopping teams travel (rule27).

Stop#8 gas test required in crosscut opening to intersection (rule24B). Face—gas test (rule24A), date/initial (rule27) and roof, face and rib test (rule23).

Stop#9 two gas tests required, outby opening and crosscut opening of intersection (rule24B). Gas test at wall of barricade (rule24A) and date/initial (rule27). 19.1%O₂ in front of barricade. The person behind the barricade states (get me out) the barricade cannot be ventilated at this time. The team must continue to explore.

The team must travel outby in the #2 entry to team stop #10 (rule 45D).

Stop#10 three gas tests are required both crosscuts and outby the intersection in opening (rule24B). Roof and rib test is required at both unsafe roof conditions (rule23) and date/initial at both due to stopping teams travel (rule27). The line curtain is now found at this stop and the team has means to ventilate the 19.4%O₂ at the barricade in #3 entry. And must do so (rule 42C), cannot explore anymore. (SEE VENTILATION #2)

After barricade is cleared the team must airlock to go in (rule 43). when the barricade is opened the captain must take a gas test before anyone enters the area (rule 24D). The captain must date/initial both location of the people found. (rule27). A assessment of the live conscious person must be done by any team member. Ask if he is okay or ask if he is alright. (rule12). Both crew member names must be called out before leaving stop. (rule51). The inby barricade must have a gas test done at it (rule 24A) and date/initial on it before leaving stop (rule 27) bring person out.

The team now can travel back into the mine by #3 entry or #1 entry to get to the last two stops. Either one they must airlock to go through. If the team elects to airlock through the barricade the captain must take a gas test before anyone enters area when breaching the barricade because they had not been in this intersection (rule24D). If the team elects to go up #1 and then to the backside of the barricade they must do a gas test at the barricade (rule24A) and date/initial if (rule27). If the team travel up the #1 entry the team can tie across to #3 entry from the last line now and not be docked under the rules before making the outby stop in #3 entry.

Stop #11 OR #12 (IN LAST LINE) two gas test are required inby and outby the opening of the intersection (rule24B). Date/initial required at water over knee deep

and at unsafe roof due to stopping teams travel (rule27). Roof and rib test at unsafe roof (rule23).

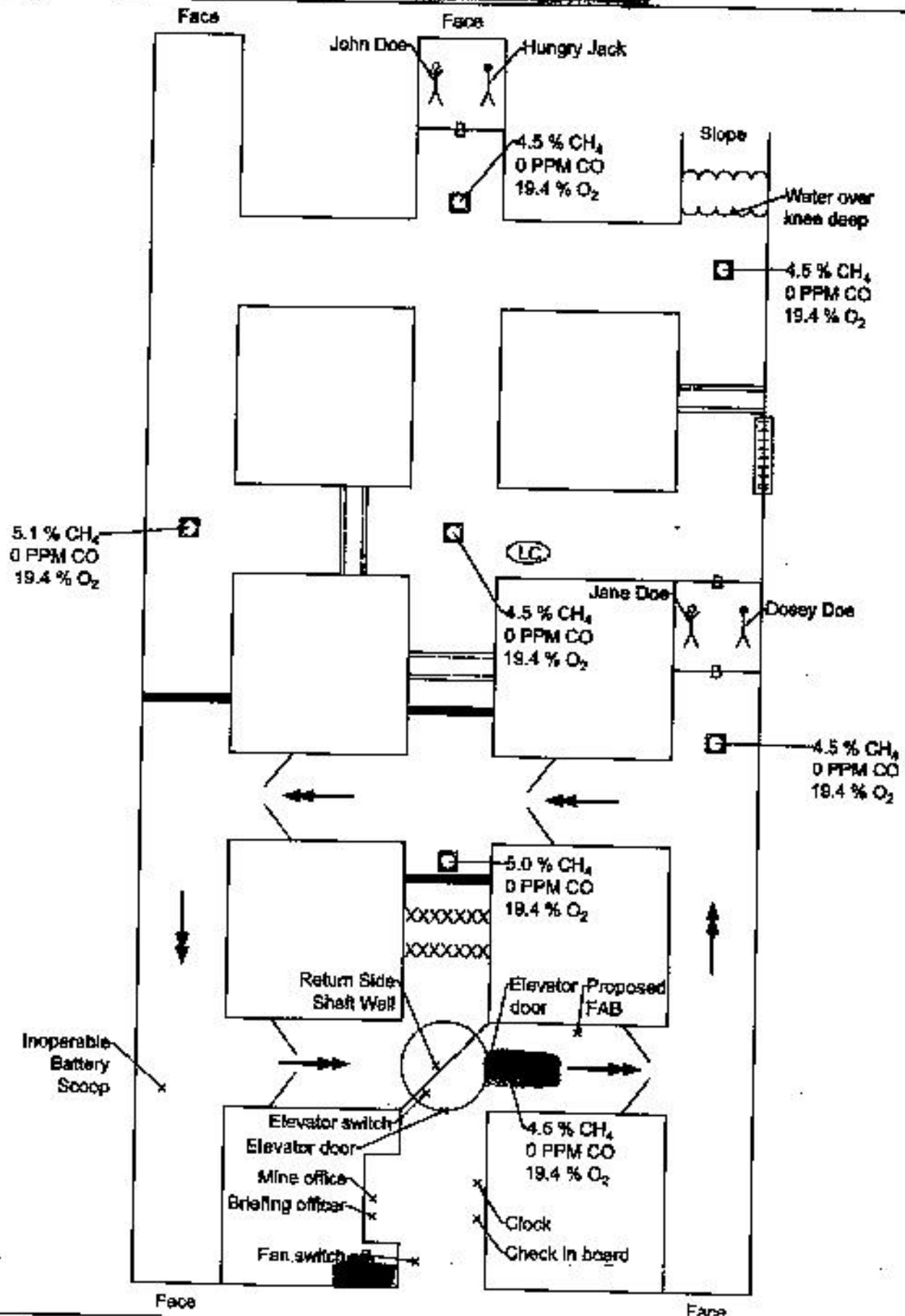
Stop#11 OR #12 (LINE OUTBY IN #3) at barricade date/initial barricade (rule27) and date and initial unsafe roof due to stopping teams travel (rule27). Gas test at barricade (rule 24A) and when breaking inby opening to the intersection, (rule24B). Roof and rib at unsafe roof (rule23). No test required at unsafe rib.

After all the mine has been made the team must ventilate the 19.4%O₂ at the barricade in #2 entry. (SEE VENTILATION #3 and #4). The airflow is entering the mines through two different openings the intake shaft and the slope opening. All of the airflow from the slope opening is being used to clear the barricade.

Before breaching the barricade the team must airlock (rule 43) after breaching the captain must take a gas test before anyone enters area (rule 24D), the captain must date and initial both location of persons found (rule 27) an assessment must be done on the conscious person by a team member (rule 12) both names must be called out before leaving stop. (rule 51) at the face – roof, rib and face test (rule23) and gas test (rule24A) and date/initial before leaving stop(rule27).

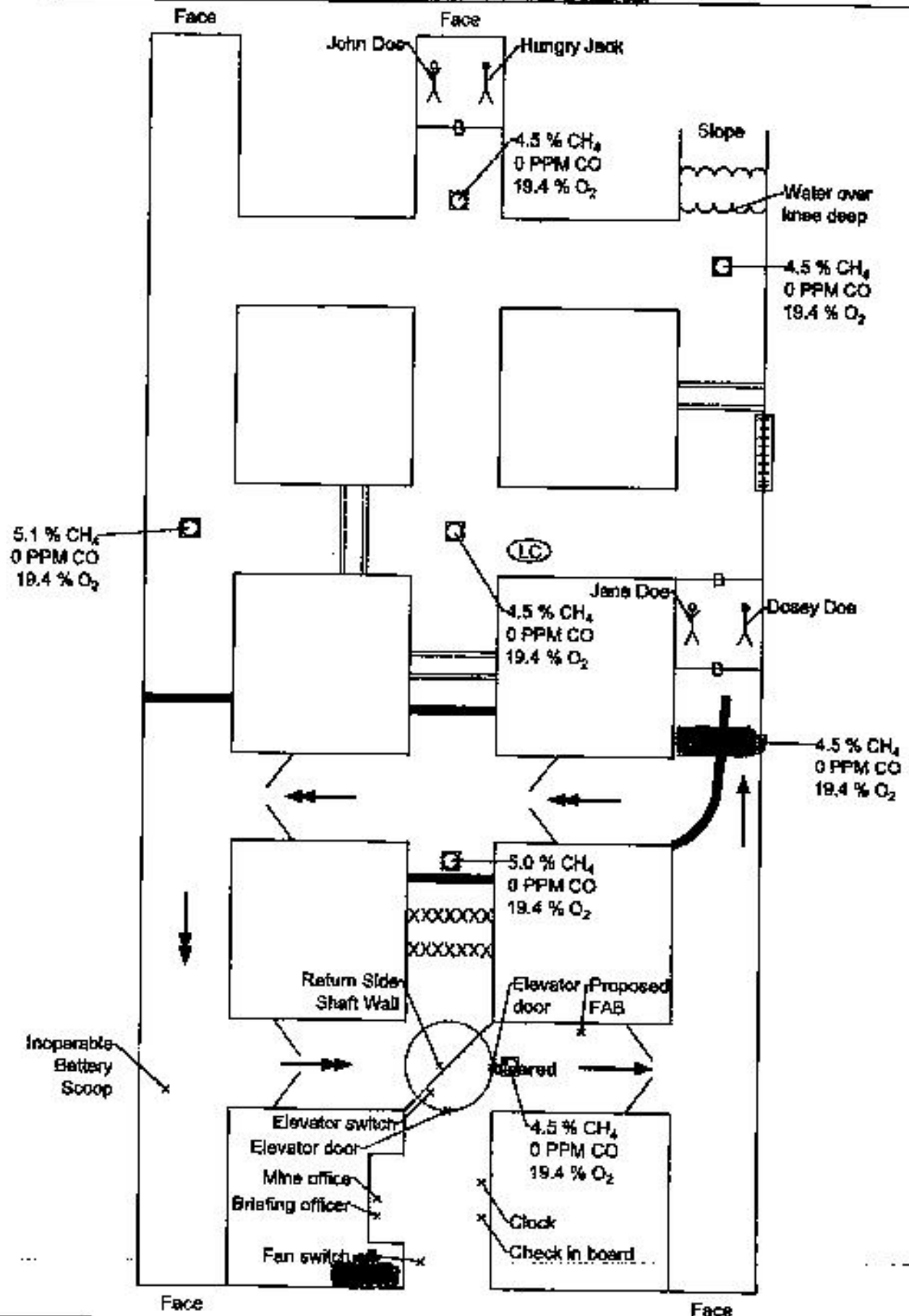
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Day 2 - [REDACTED]



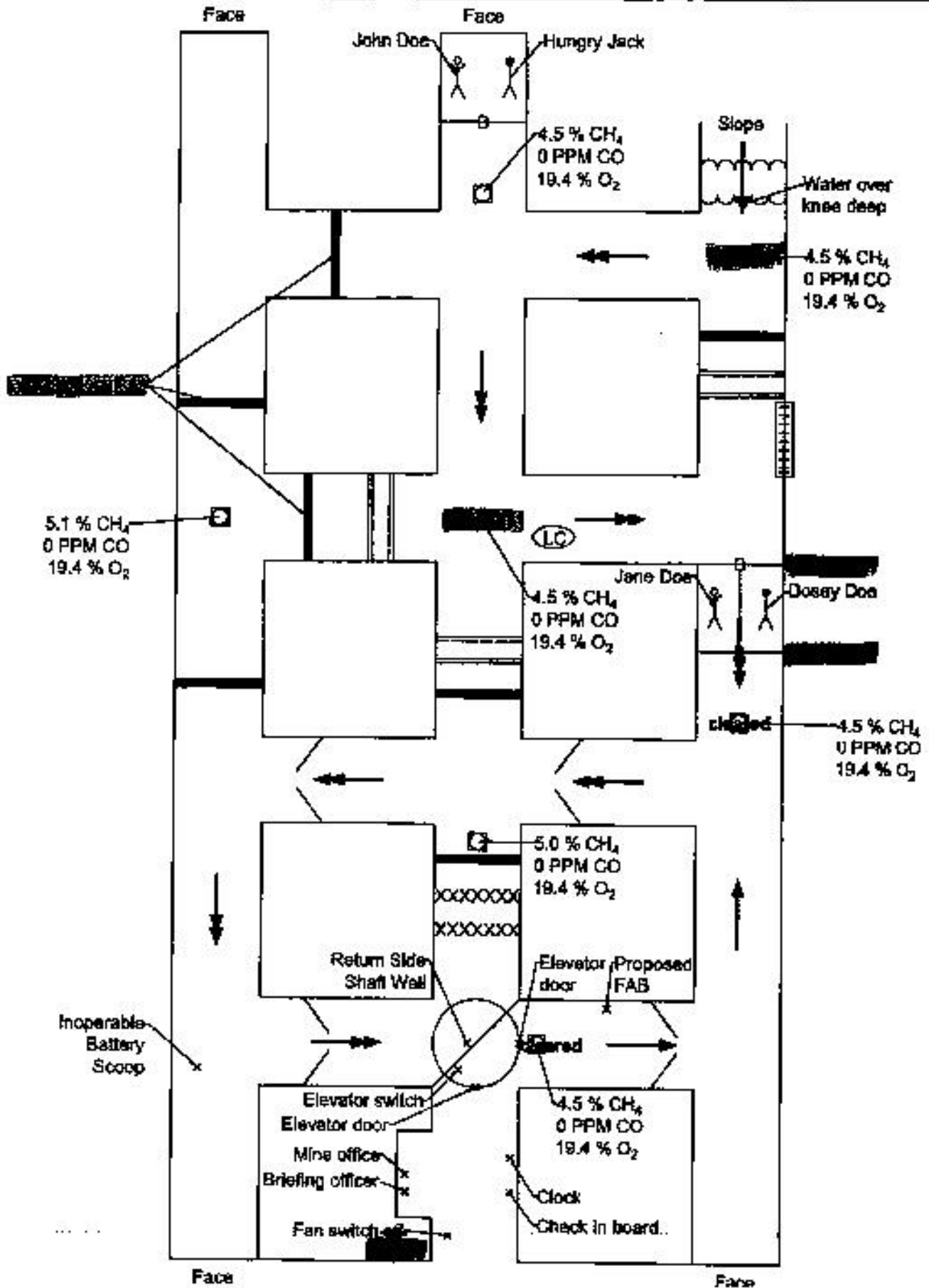
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Day 2 - [REDACTED]



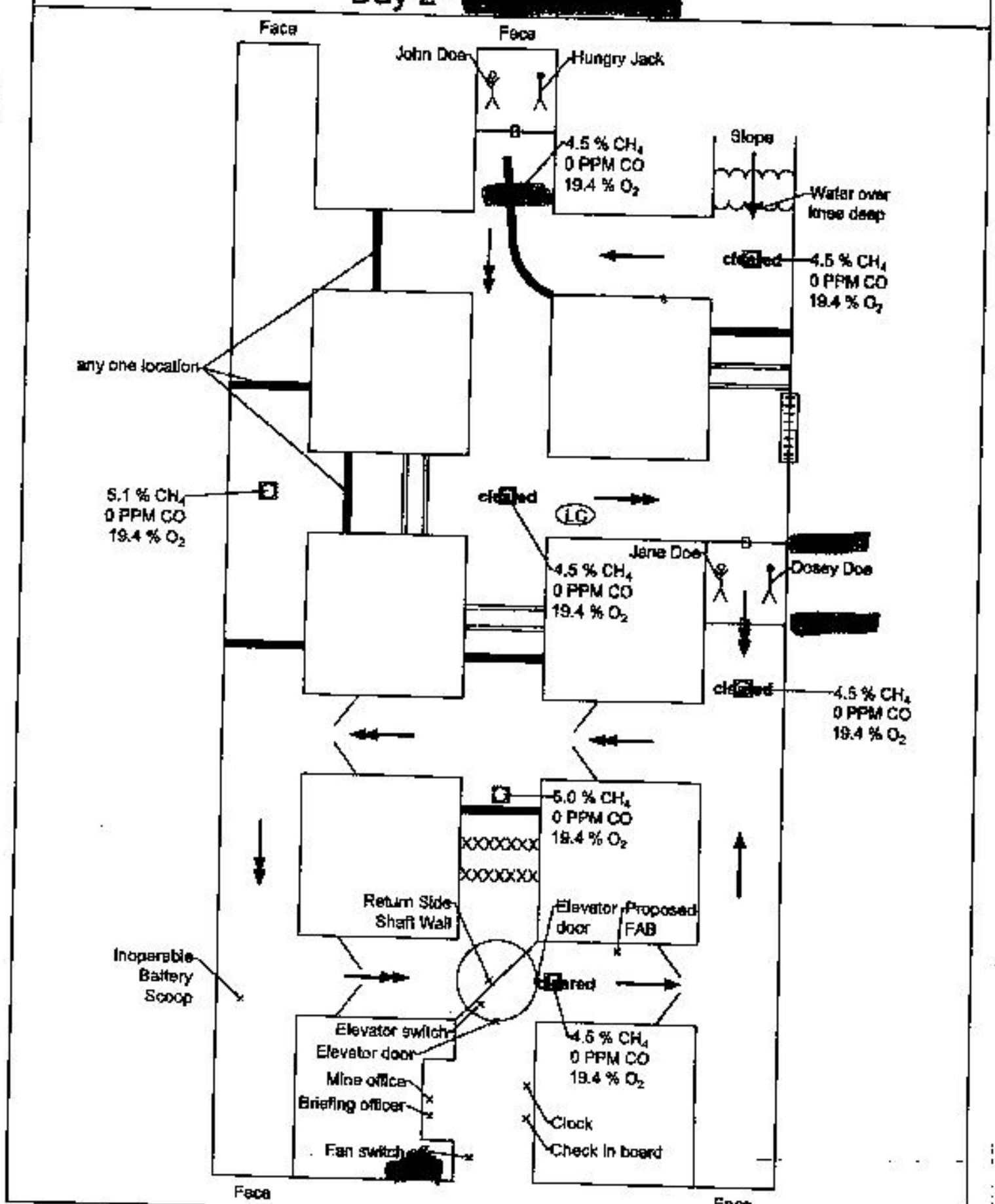
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Day 2 - XXXXXXXXXX



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Day 2 - XXXXXXXXXX



SUPERINTENDENT CHECK LIST DAY 2

FIRST TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

SECOND TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

THIRD TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

FOURTH TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

FIFTH TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

SIXTH TEAM CHECK UNDERGROUND, WAS THE LOW MAN'S NAME CALLED OUT TO THE BO? (YES OR NO) WAS THE O2 READING ALSO CALLED OUT? (YES OR NO)

WAS THE NAMES OF EACH MISSING PERSON CALLED OUT TO THE BO?

BARRICADE IN #3

**Jane Doe—(YES OR NO)
Dosey Doe—(YES OR NO)**

BARRICADE IN #2

**John Doe—(YES OR NO)
Hungry Jack--(YES OR NO)**

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Day 2 - Final Ventilation

