2007 KMI Mine Rescue Contest

JUDGES BRIEFING

AUGUST 15TH
I am ______________, Superintendent of the Waterloo No.2 Mine. Thank you for answering our call for help.

Early this morning, (six) 6 men entered the mine to work on seals and support the roof. At 5:00 am, an explosion was heard and the exhaust fan stopped. All attempts to reach the crew have been unsuccessful. All (Six) 6 miners are still missing.

I traveled into the No. 1 and No. 2 entry and found water everywhere. A high concentration of methane was in the No. 3 entry, so I came back outside to call for help.

A fresh air base has been set up in this first crosscut and all areas outby this location have been made. The exhaust fan is off, but can be turned on by the backup team.

Waterloo No. 2 mine is a highwall mines that was sealed about 3 crosscuts inby the highwall. This mine cut into an unsealed abandoned mine a few months ago. Work is being done to try to get this mine back in operation as soon as possible.

This mine also has problems with water, bad roof and methane. The mine maps are not up to date.

All electrical circuits going into the mines have been de-energized, locked out and guarded.

We have a competent lifeline person to give and return signals (point this person out)

We have a backup team (with ventilation structure materials) that can only do the following: start, stop and reverse the fan if needed, close and open the explosion door at the fan, and build and remove stoppings in No.1 and No.2 entry just inside the mine.

Each request for work by the backup team will take 2 minutes. Extra maps will be provided for you and your team to mark changes for backup team work. You and your team will be responsible for stoppings built in this first crosscut, but all work outby this crosscut must be done by the backup team.

Written instructions and mine maps will be given to you when the clock is started

Thank you and your team for your assistance!
KMI Mine Rescue Contest

Problem
(Written Instructions)

ACCOUNT FOR ALL MISSING PERSONS

EXPLORE THE ENTIRE MINE IF IT CAN BE DONE SAFELY

THE SEAL IN THE NO.1 ENTRY IS ONE CROSSCUT OUT BY AN OLD AIR SHAFT. THE OLD SHAFT MUST NOT BE USED FOR VENTILATION
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3RD VENTILATION
Same as second vent, but extend line curtain and build inby airclear

Leaking

O2 17.9%
CH4 5.5%
CROSSBAR
NON-PERMISSIBLE
BATTERY SAW
6 inches

Leaking Lunch Box
O2 17.9%
CO 50 PPM
UNCONSCIOUS
6"

CLEAR

JEFF
O2 18.0%
Do not clear O2 18.0%
in center of intersection

CLEAR

2 TIMBERS
This vent will clear low O2 in front of caved area

AIR CLEAR

Person
(Body after timbering)

SCOOP

CH4 4.5%
O2 19.1%

O2 19.7%
CH4 5.5%

CLOSED
Door Open

BLOWING FAN ON

over knee deep

over knee deep

over knee deep
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4th Ventilation

Airlock in E - Rescue uncon man and FPA at explosive mixture

Leaking
O2 17.9%
CH4 5.5%
CROSSBAR
NON-PERMISSIBLE BATTERY SAW
6 inches

SAW
Leaking
Lunch Box
O2 17.9%
CO 50 PPM
UNCONSCIOUS
R:
CLEAR

JEEP
O2 16.8%
Move stopping to keep air of out leaking seal area

CH4 4.5%
CLEAR

Low O2 placard can be moved to here

Fan must be off or air short-circuited before leaking down

EITHER

CH4 5.5%

Scoop
over knee deep

Person
Body after timbering

over knee deep

either

Closed
Door Open

Blowing
Fan OFF ON
Correct outby for Superintendent

NO. 1 ENTRY  NO. 2 ENTRY  NO. 3 ENTRY

Work by backup team will take 2 minutes

Area back-up team can work

Closed Door Open Reverse to blowing on

Fan

OVER KNEE DEEP

backup team build

Area Explored
PATIENT STATEMENT
In 1st Barricade in No. 3 entry

Help! Get me out!
Rule 31 B - If team goes past evidence of fire in by Barricade

Rule 31 C - If explosive mixture is moved over seals

Rule 31 C - If explosive mixture is moved over water over knee deep

Rule 30 F - If irrespirable is moved over water over knee deep or leaking seals

Rule 42 C - If team goes to this intersection before getting patient from first barricade (Delay)
Extra Maps for Judges
Extra Maps for Judges
Extra Maps for Judges
Extra Maps for Judges
Extra Maps for Judges