Harlan Contest Written Information

Day 2

Thank you for responding to our call for help. You are located at the fresh-air base of the Good Luck #1 mine. We had a scoop operator, utility man and a foreman working on the 3 Right section when we lost communication to the section. The 3 Right section was driven up to the #45 cross cut and our maps were updated at the end of the last production shift. The Good Luck mine is a large mine with multiple sections. The 3 Right section is being developed as a bleeder system for future mine development. There are multiple intake air sources and returns located on this section, including an intake shaft located at #41 crosscut, a split wall intake/return shaft located in the #3 entry between #44 and #45 crosscuts, with an exhaust fan on the return side of the shaft. This fan is off but can be turned on if requested by the team. The main mine fan is an exhaust fan located at the mine entrance. The main mine fan is supplied air from the intake shaft located at #41 crosscut and must remain running to ventilate the remainder on the mine.

This section has a history of water problems, methane and bad roof. In areas of the mine where water accumulates and effects ventilation, pumps have been installed and are running. If power is turned off to the pump the water will roof immediately.

All State and Federal agencies have been notified and are on site. Several mine rescue teams are on site to act as backup if needed.

This is all the information I have at this time

Thanks and good luck
Harlan Contest Day 2

Written Statement

- Explore the entire mine that can be done safely
- Account for all missing miners
- Bring all survivors to the fresh-air base
- The fans cannot be stalled or reversed
- The main mine fan must remain on at all times to ventilate the remainder of the mine
Harlan Contest Day #2
Layout Map

Working Order:
Face

Field
Face
Help Get Me Out
I Have a Airtight Face
Behind Me
4.0% CH₄
0 PPM CO
18.5% O₂

Battery Scoop

5.5% CH₄
1 PPM CO
19.4% O₂

Person

Open

Open

Water Over Knee Deep
5.5% CH₄
0 PPM CO
19.5% O₂

Battery Scoop

Intake Side
Open
Return Side

Separation wall
To Surface

Person

Airtight

Power distribution Box
With power on

BC

LC

Intake Shaft

Pump Cable

Stationary Pump
With suction line in water

Water ankle Deep

5.6% CH₄
0 PPM CO
19.4% O₂

BC

BC

BC
Harlan Contest Day #2
Second Ventilation

Battery Scoop

Water Over Knee Deep
5.5% CH₄
0 PPM CO
19.5% O₂

Open
Remove
2nd Vent will clear the gas

Battery Scoop

Water Over Knee Deep
5.5% CH₄
0 PPM CO
19.5% O₂

Open
Remove

Person

Could use a diagonal to replace these 2 stoppers

Second Ventilation

Battery Scoop

Water Over Knee Deep
4.2% CH₄
0 PPM CO
19.4% O₂

Open
Remove

Person

Help Get Me Out
I Have an Airtight Face
Behind Me

4.0% CH₄
0 PPM CO
18.5% O₂

Stationary Pump
With suction line in water

Water ankle deep

Power distribution Box
With power on

Intake Air Shaft

Pump Cable

5.6% CH₄
0 PPM CO
19.4% O₂

Airtight

Airtight

LC