CRAIG, CO MINE RESCUE CONTEST
AUGUST 4-6, 2009

MINE RESCUE

1st PLACE WINNERS

ENERGY WEST MINING
PRICE, UT MINE RESCUE CONTEST
JUNE 2009
STATEMENT

I am ________________, Superintendent of the Moffat #1 Mine. You are located at the fresh air base on the 2nd Right section. Last night, a maintenance crew of five miners entered the section to perform regularly scheduled maintenance work. A sudden power outage occurred and contact was lost.

The mine rescue team entered the mine but was unable to explore the entire section. Contact with the five missing miners could not be established. The mine rescue team encountered explosive ranges of methane and deep water preventing further exploration. A permanent electrical pump is located on the section in the second connector entry to the right as shown on the map of the entire area and water has been pumped so that further exploration can be done. The pump is energized and running. When the pump is turned off, the area will accumulate impassable water to the 20-foot contour line, as shown on the map of the entire area, within two minutes.

A map of the entire area showing findings of the previous explorations will be provided to your team, along with a map of the 2nd Right section. The map of the entire area includes contour lines to show the area that will flood if the pump goes off. These maps will be provided when you are ready to start.

We have backup teams available that can do outby work as directed. When your team requires a ventilation change to be made by the backup team(s), each change will require a minimum of two minutes. During this time, no additional work or team moves will be allowed. Making apparatus checks or reviewing the map will not be considered work. Once the request has been submitted, the team cannot stop or change the request. Each new request will require an additional two minutes to complete. All requests for outby changes must be initiated by a team member.

The mine is ventilated by an exhausting fan that must remain on and cannot be reversed. The mine’s underground electrical power is energized and power is on to the permanent pump. The electrical power enters the underground mine through the Mains and the energized pump cable and high voltage cable to the section are marked on the map of the entire area. Electrical power inby the fresh air base, except for the pump cable, has been de-energized, locked-out, and disconnected at the high voltage disconnect at the fresh air base.

The coal seam is walking height and the roof is supported by roof bolts. We have a competent lifeline person to give and return signals. Due to adverse mine conditions, a total of 90 minutes will be allowed for each team to complete the problem.

GOOD LUCK
PROBLEM

Account for all missing persons

and

Explore all areas of the mine that can be safely examined

TIME LIMIT OF 90 MINUTES WILL BE ALLOTTED TO YOUR TEAM

Time warnings at 20, 10, and 2- minutes remaining will be given by the judges.

GOOD LUCK!
CRAIG, CO MINE RESCUE CONTEST - 2009
2nd RIGHT SECTION
TEAM STOPS

INDEX
RR - ROOF & RIB TEST
RRF - ROOF, RIB & FACE TEST
△ - DATE & INITIALS
GT - GAS TESTS FOR CO, O2 & CH4

Set Timbers

Continuous Mining Machine
Face
Roof Bolting Machine

14 GT

Air Clear
O2 14%
CH4 5%

18 GT

O2 14%
CH4 5%

Set Timers

Conscious
O2 19.4%

12 GT

Battery Scoop

Open

10 GT

B
O2 14%

Temporary Stopping Built by Previous Team
O2 13%
CH4 5%

Air Clear

8 GT

GT

Airlock To Go To

7 GT

Over Knee Deep

Power Center

4 GT

Ankle Deep

3 GT

4 Timbers

Remove Unsafe Roof for Novice Teams

Briefing Officer

High Voltage Disconnect Open

1 GT

O2 14%
CH4 5%

2 GT

Power Cable

RR

3 GT

Airlight

RR

2 GT

Check Board

O2 14%
Patient Statement

To be read by Patient when team enters intersection in front of barricade

“Help! Help!
Me and Bill are back here.
Bill hasn’t been feeling good and has passed out.
I’m feeling dizzy.
PLEASE HURRY. WE NEED YOUR HELP!!”

No other information can be given.
Ignition Source

Should Build for Team Safety

Air Clear

O₂ 13%
CH₄ 5%

O₂ 14%
CH₄ 5%

Over Knee Deep

Ankle Deep

O₂ 14%

Over Knee Deep

Timbers Not Needed As All Persons Are Accounted For

Remove Unsafe Roof for Novice Teams

High Voltage Disconnect Open

O₂ 14%
CH₄ 5%

O₂ 19.4%
O₂ 14%
O₂ 14%

Conscious

Open

Completely Destroyed
2- MINUTE WARNING

The power to the pump is off. You have 2 minutes to finish the problem and get out by the 20-foot contour line before the area is flooded.