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

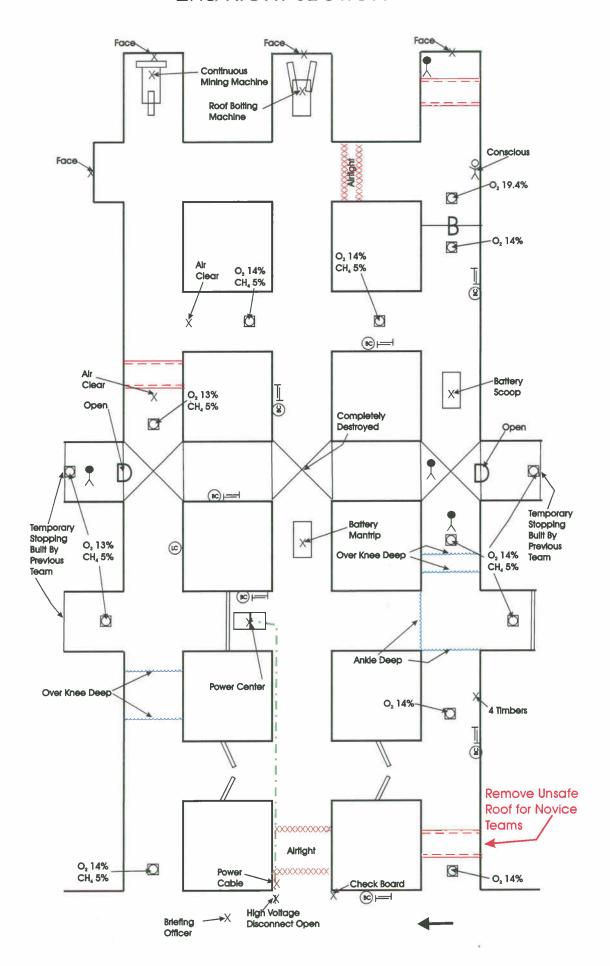
MINE RESCUE



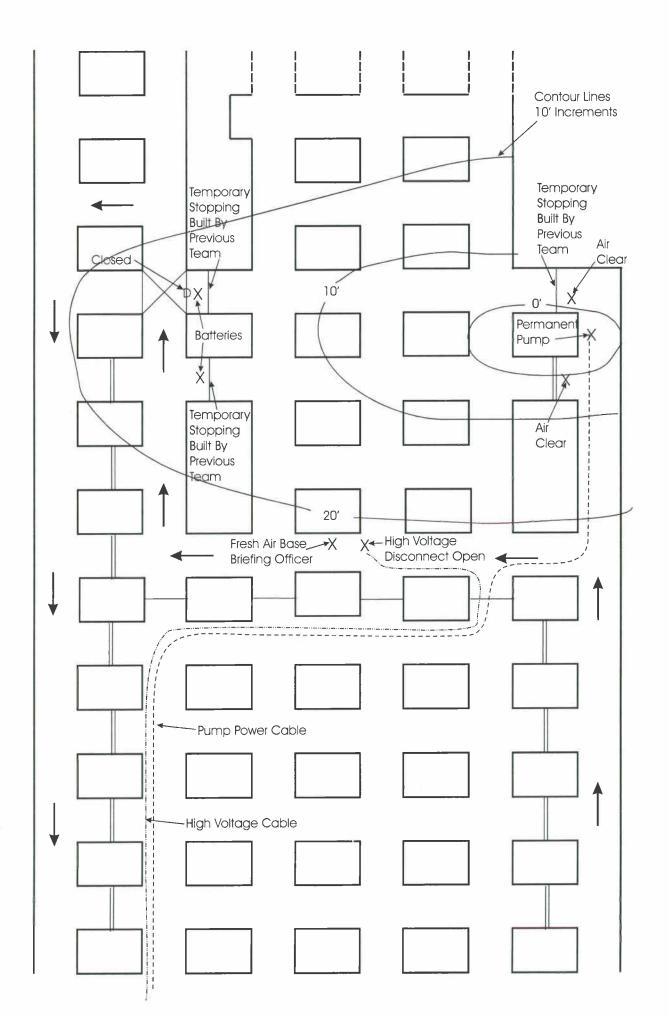
1st PLACE WINNERS

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

CRAIG, CO MINE RESCUE CONTEST - 2009 2nd RIGHT SECTION



MAP OF ENTIRE AREA - 2nd RIGHT SECTION



STATEMENT

I am	, Superintendent of the Moffat #1 Mine.	You are located
at the fresh air base on the	2 nd Right section. Last night, a maintena	ance crew of five
miners entered the section	to perform regularly scheduled mainter	nance work. A
sudden power outage occi	arred 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 2^{nd} 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 ALLOTED 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

★ = Ignition **EXTENT OF GASES** Source Conscious O₂ 19.4% O, 14% O₂ 14% CH, 5% O₂ 14% Clear CH, 5% Alr Clear 女 O₂ 13% Open CH, 5% Completely Destroyed Open 女 O₂ 13% Over Knee Deep < O₂ 14% CH, 5% CH, 5% Ankle Deep Over Knee Deep O, 14%-Remove Unsafe Roof for Novice **Teams** XXXXXXXXXXX Alrlight O₂ 14% U XXXXXXXXX CH, 5% 0, 14% High Voltage Disconnect Open

CRAIG, CO MINE RESCUE CONTEST - 2009 2nd RIGHT SECTION INDEX ROOF & RIB TEST ROOF, RIB & RR -RRF -**EAM STOPS** FACE TEST - DATE & INITIALS **Set Timbers** - GAS TESTS FOR CO, Face. 02 & CH4 Continuous 0 Mining Machine 04 П Roof Bolfing 0 Machine RRF Conscious (12) (14) GT (15) GT 0, 19.4% 0 GT B 0, 14% 0 0, 14% Alг CH, 5% 0,14% Clear GT GT CH, 5% (2) (13)9 O (10) GT (BC) |---| A RR A GT GT Air **Battery** Clear O₂ 13% X Scoop Open 3 CH, 5% Completely Destroyed Open GT 6 8 (11) (BC) |--Airlock To Temporary Battery Stopping Temporary Go To (7) **Built By** Mantrip Stopping Q 0,13% X (C) **Bullt By Previous** Over Knee Deep 0,14% CH, 5% Team **Previous** CH, 5% Team GT GI (BC) 4 GT GI 5 (4) O 7 GT GT GŢ Ankle Deep GT **Power Center** Over Knee Deep O₂ 14%-4 Timbers 0 GT GT (1) Gī (2)(3) Remove Unsafe GT **Roof for Novice** GT **Teams** XXXXXXXXX Alrtight RR 0,14% GI Power CH, 5% RR 🛦 0, 14% Cable Check Board ®⊢ High Voltage **→**X Briefing Disconnect Open Officer

Patient Statement

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

"Help! Help!

Me and Bill are back here.

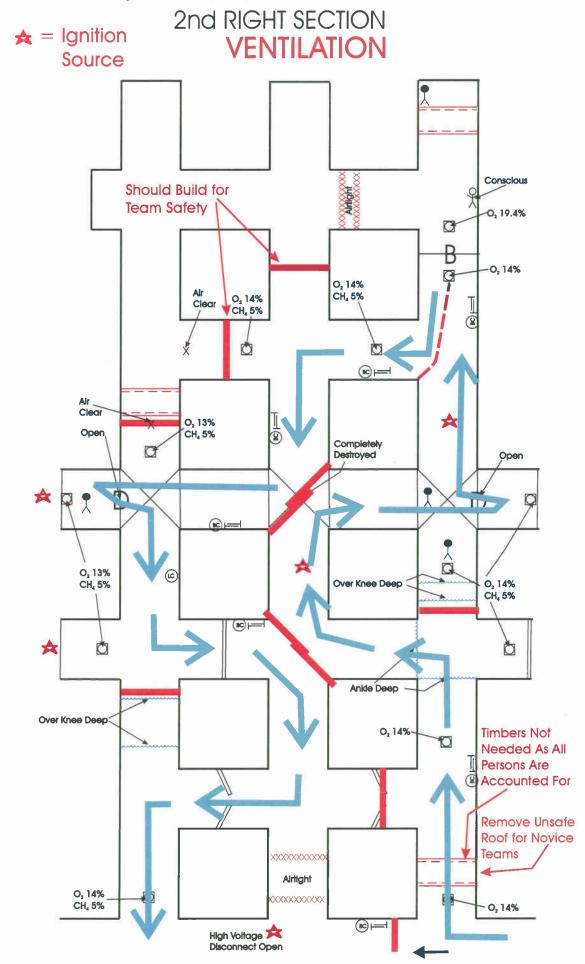
Bill hasn't been feeling good and has passed out.

I'm feeling dizzy.

PLEASE HURRY. WE NEED YOUR HELP!!"

No other information can be given.

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2- MINUTE WARNING

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

