

Bill Denning

**PRICE, UT MINE RESCUE CONTEST  
JUNE 2-4, 2009**

# PRESHIFT



**1st PLACE WINNER**

**GARY CHRISTENSEN - ENERGY WEST  
FARMINGTON, NM MINE RESCUE CONTEST  
APRIL 2009**

# CONTESTANT STATEMENT

You have been assigned to conduct a preshift examination of the 9<sup>th</sup> West section of the STC No.1 Mine. This section produces coal on the 2<sup>nd</sup> and 3<sup>rd</sup> shift, with maintenance being performed on the 1<sup>st</sup> shift.

The mining height varies between 72 inches to 96 inches. The section has a history of adverse roof conditions, excessive methane liberation, and areas of water accumulation.

Shift changes are accomplished without an interruption in production (hot seat). Seven miners are currently working on the section

Equipment can be energized and de-energized through switches, but cannot be moved for any reason. Power to the section power center cannot be de-energized. All actions must be verbalized to the Judges. Gas readings and air readings will be handled through the Judges.

The section experienced a roof fall on the graveyard shift, and a recovery plan has been developed. All miners working on the section have been trained in the recovery plan, and the recovery is on-going.

# VENTILATION PLAN

Face ventilation shall be maintained by auxiliary fan and/or brattice cloth.

Entries will not be advanced more than 400 feet before a crosscut is broke through. Crosscuts will not be more than 150 feet in length before a breakthrough is made.

The minimum air quantities are listed below:

## CUTTING COAL

Working faces	16,000 cfm
Idle faces	5,000 cfm
Bolting faces	9,000 cfm
L O X C	32,000 cfm

## CUTTING ROCK

Working faces	18,000 cfm
Idle faces	5,000 cfm
Bolting faces	10,000 cfm
L O X C	40,000 cfm

When diesel equipment is operated in section the minimum air quantity in the last open crosscut shall be the sum of all minimum plate quantities plus 5,000 cfm or 32,000 cfm – whichever is greater.

Atmospheric monitoring systems will be installed meeting the requirements of 30 CFR 75.351(c)(4) at the following locations:

- Section loading point
- Section immediate return

Belt air will be utilized for face ventilation.

Primary escapeway will be located in the main intake/travelway entry.

Alternate escapeway will be located in the return entry.

# ROOF CONTROL PLAN

The roof control plan requires the following for primary support:

- 60” resin grouted roof bolts
- 5 foot maximum spacing
- 4 roof bolts minimum per row

Roof bolts will be installed within 5 feet of face area.

Timbers, posts, jacks, Rocprops and ballbusters will be installed on 4 foot centers.

Faces will be bolted within 24 hours of being cut or shot.

No persons will work or travel inby the second to last row of roof bolts. Exception: Equipment operators protected by a canopy may travel to the last row of bolts.

Intersections are not considered supported unless two (2) rows of support are installed inby the rib line of the crosscut. Exception: Persons working with an approved ATRS and persons making required examinations.

