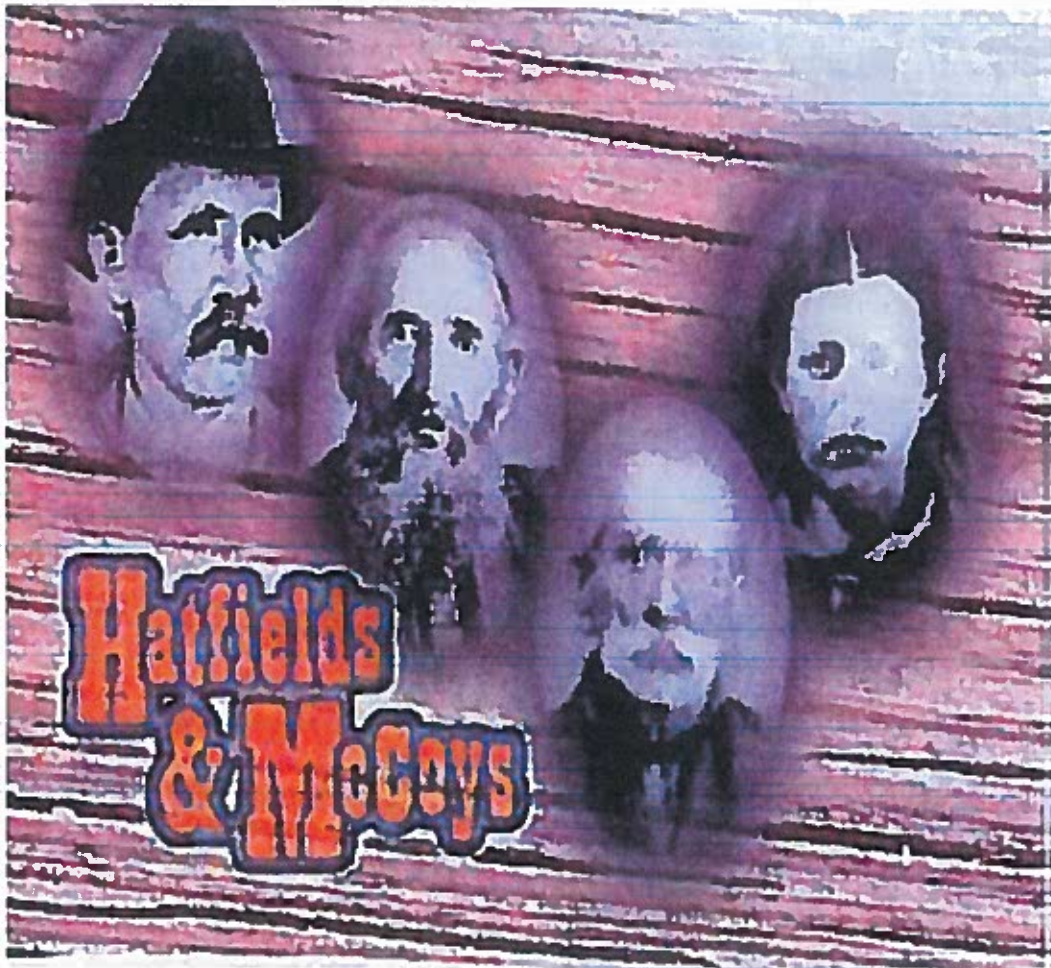


Hatfield & McCoy Mine Safety Competition

Preshift Contest
July 14, 2015



Hatfield & McCoy Mine Safety Competition
Preshift Contest
July 14, 2015

Directors

James Poynter
Franklin Reed

Contest Officials

Saul Akers - District 6
Billy Stiltner - District 6
Craig Plumley - District 6

Adam Akers - DMS Martin
Randy Smith - DMS Martin
Michael Elswick - DMS Pikeville

Judges and Contestant Briefing

Saul Akers - District 6
Randy Newsome - District 6
Alan Howell - District 6

Adam Akers - DMS Martin
Jimmy Soard

Appeals

Saul Akers - District 6
Randy Newsome - District 6

Adam Akers - DMS Martin
Ricky Johnson - DMS Barbourville
Ronnie Drake - DMS Frankfort

Score Card Examiners

Alan Howell - District 6
Silas Adkins - District 6

Rodney James - DMS Madisonville
Johnny Morgan - DMS Barbourville

Written Examinations and Preshift Page Time Keeper

Virgil Hall - District 6
Kermit Absher - District 7

Danny Hurt - DMS Martin
Gary Mitchell - DMS Madisonville

Preshift Page Judges

Johnny Calhoun - Headquarters
Danny Deel - District 6

Daniel "Boonie" Bentley - DMS Hazard
Pat Turner - DMS Barbourville
Mike Eldridge - DMS Hazard

Field 1 (A) Judges

Hagel Campbell - District 5
Nathan Moore - DMS Martin

Field 1 (B) Judges

Greg Carroll - District 6
Casey Mollett - DMS Martin

Field 1 Set-up

Todd Belcher - District 6
Gary Ray - District 6

Field 2 (A) Judges

Rick Whitacker - District 6
Rick Blackburn - DMS Martin

Field 2 (B) Judges

Don Kidd - District 6
Gary Fugate - DMS Hazard

Field 2 Set-up

James Macontosh - District 6
Billy Allen - DMS Harlan

Field 3 (A) Judges

Eric Picklesimer - District 6
Dean Bush - DMS Barbourville

Field 3 (B) Judges

Robert Maynard - District 6
James Tabor - DMS Madisonville

Field 3 Set-up

Ralph Fannin - District 6
Garland Kidd - DMS Martin

Field 4 (A) Judges

Jeff Johnson - District 6
TK Hayes - DMS Hazard

Field 4 (B) Judges

Jeff Webb - District 5
Joey Morgan - DMS Harlan

CHIEF FIELD SET-UP

Darrell Hurley - District 6
James Tackett - DMS Martin

Field 4 Set-up

Rodney McIntosh - District 6
Roger Boggs - DMS Harlan

Alternates

Larry Wolford - District 6
Donnie Young - District 6

Barry Johnson - District 6

Transportation – Drivers

Rodney Mosley - DMS Martin
Randy Wellman - District 6

Lock-up/Guard

Jimmy Slone - DMS Martin
Danny Pack - District 6
Leland Hess - District 6
Kenneth Hall - District 6

Escorts/Guards at Field

Susie Hackney - District 6
Melvin Wolford - District 6

PA System

Clyde Porter - District 6

Registration/Records

Denise Leedy - District 6
Teri McCoy - District 6

CONTESTANT STATEMENT

My name is _____. This is _____. We will be your judges for today's contest.

Welcome to the Hatfield McCoy Coal Inc. Bob Amos mine.

The Hatfield McCoy Coal Company, Bob Amos mine produces coal with a Continuous miner, shuttle cars, roof bolting machines and battery powered scoops. The mine operates two shifts per day, five days per week. This mine has a history of accumulations of methane, bad roof conditions and water problems.

You are the day shift foreman on the producing 001 MMU conducting a preshift examination for the on-coming shift.

The 001 MMU consist of three entries.

#1 Entry is the intake.

#2 Entry is belt/track.

#3 Entry is return.

The mining height averages five (5) feet, the main fan is exhausting and operating. All underground power is energized.

A copy of the approved roof control plan, ventilation plan and a blank map are all attached to this statement. If means are available hazards are to be corrected and the section is to be left in compliance with the approved plans. For the contest purposes all violations of title 30 CFR will be considered hazards.

HATFIELD AND McCOY MINE SAFETY COMPETITION
PRE-SHIFT EXAMINER'S CONTEST
JULY 14, 2015

Roof Control Plan

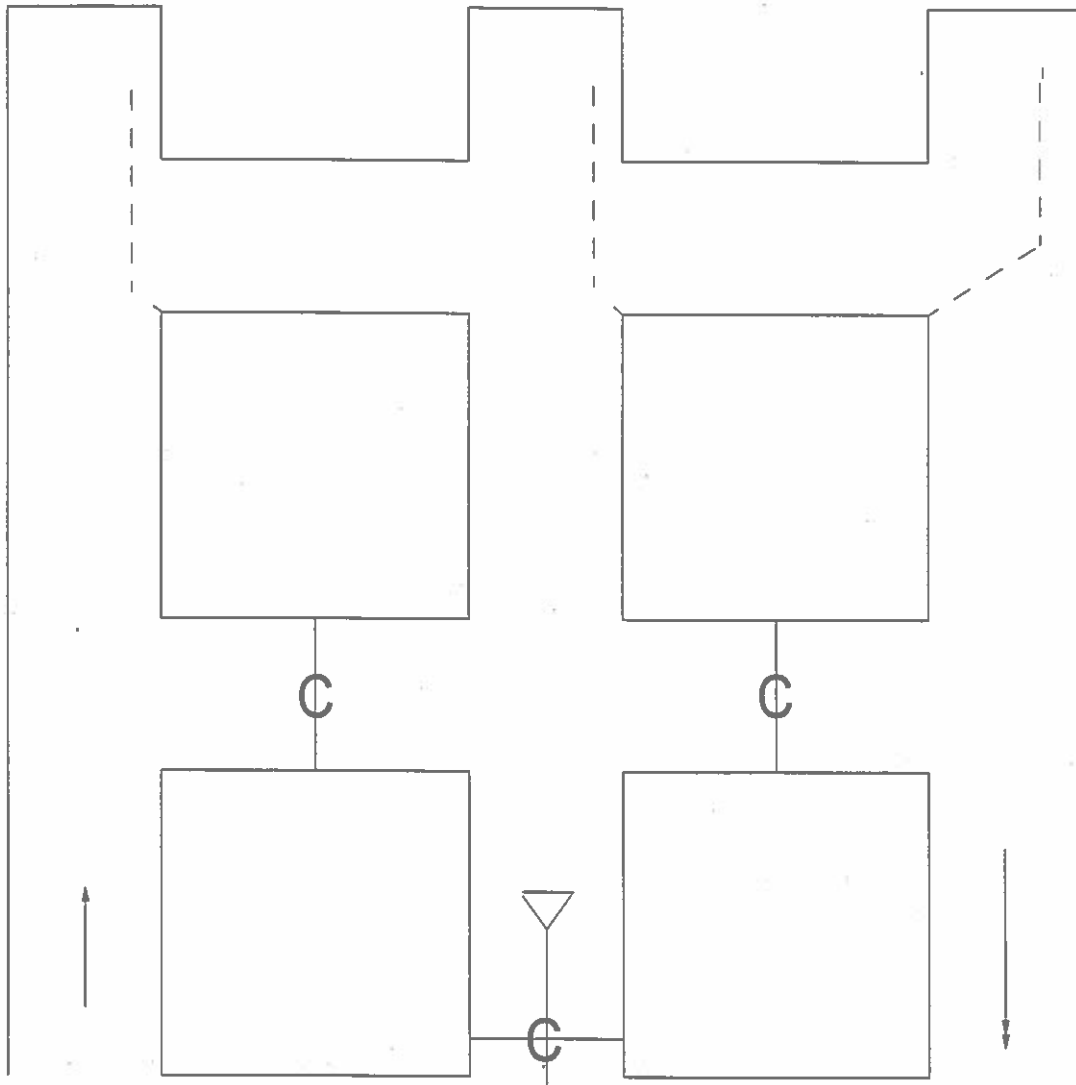
- Minimum bolt length - 60" resin grouted rebar bolt.
- The roof bolt installation pattern is 4 feet by 4 feet.
- The maximum entry and crosscut widths are 20 feet.
- The maximum cut depth is 20 feet.
- When tramming the continuous mining machine, no one will be located along either side of the continuous mining machine, and they will be in a safe location outby the boom and head.
- Extended Cuts shall not be left unsupported over a 24 hour period.
- Reflectors or danger signs shall be placed on last row of permanent supports at the approaches to all unsupported areas.
- When an unbolted crosscut is present, the preshift examiner may proceed inby the crosscut to examine the working places.

HATFIELD AND McCOY MINE SAFETY COMPETITION
PRESHIFT EXAMINER'S CONTEST
JULY 14, 2015

Ventilation Plan

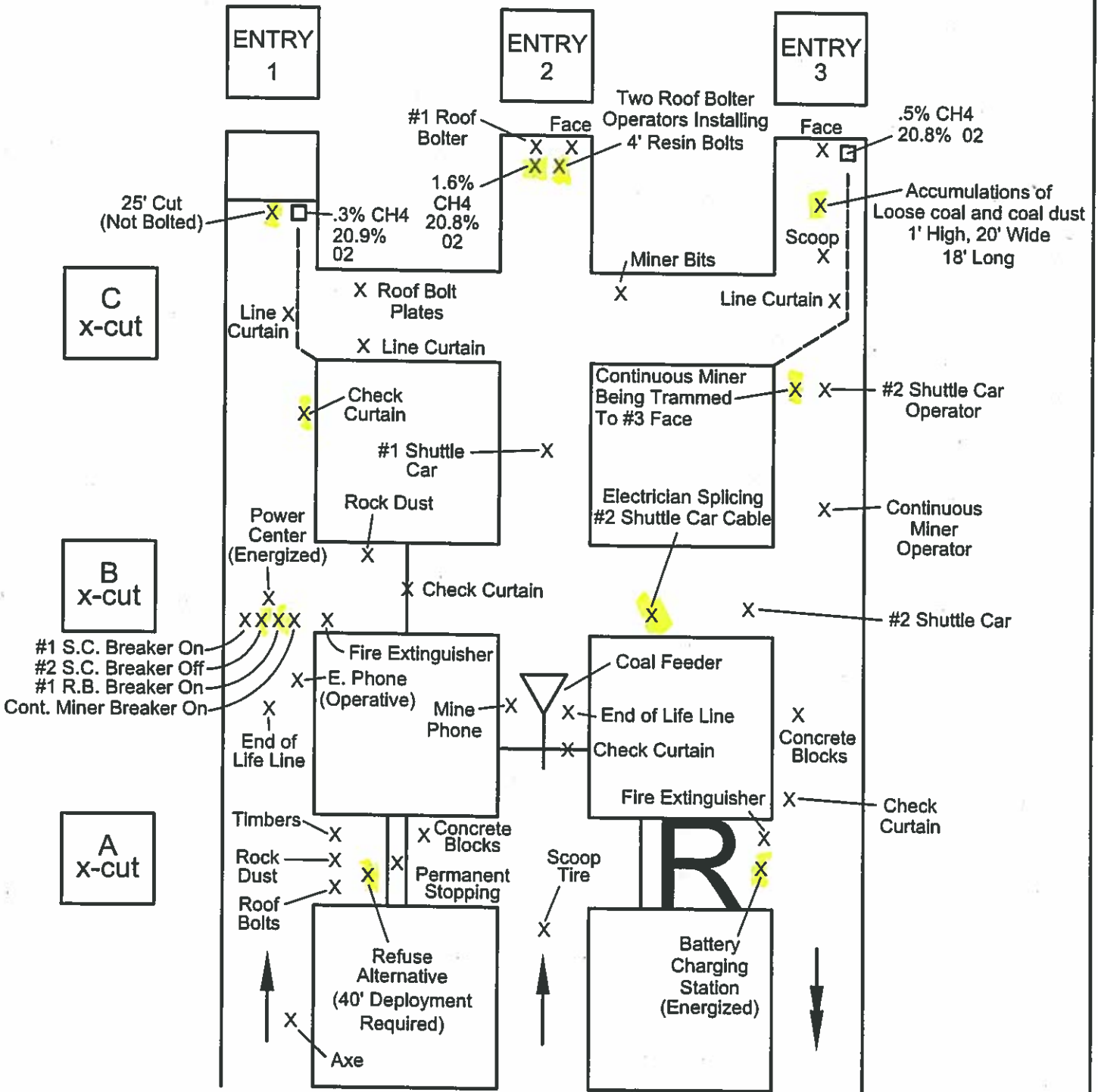
- Main mine fan is exhausting.
- 12,000 CFM will be provided in the last open crosscut.
- 7,500 CFM or 75 FPM mean air velocity (whichever is greater) will be provided in all working faces where coal is cut, mined, loaded or drilled for blasting.(Exhausting face ventilation only)
- A perceptible movement of air is required in all idle working places. Line curtain installed within 10 ft. of face for bolted places and next to the last row of permanent roof support for unbolted places.
- Belt air is not used for face ventilation.
- Belt air is regulated outby the section loading point.

Ventilation Plan

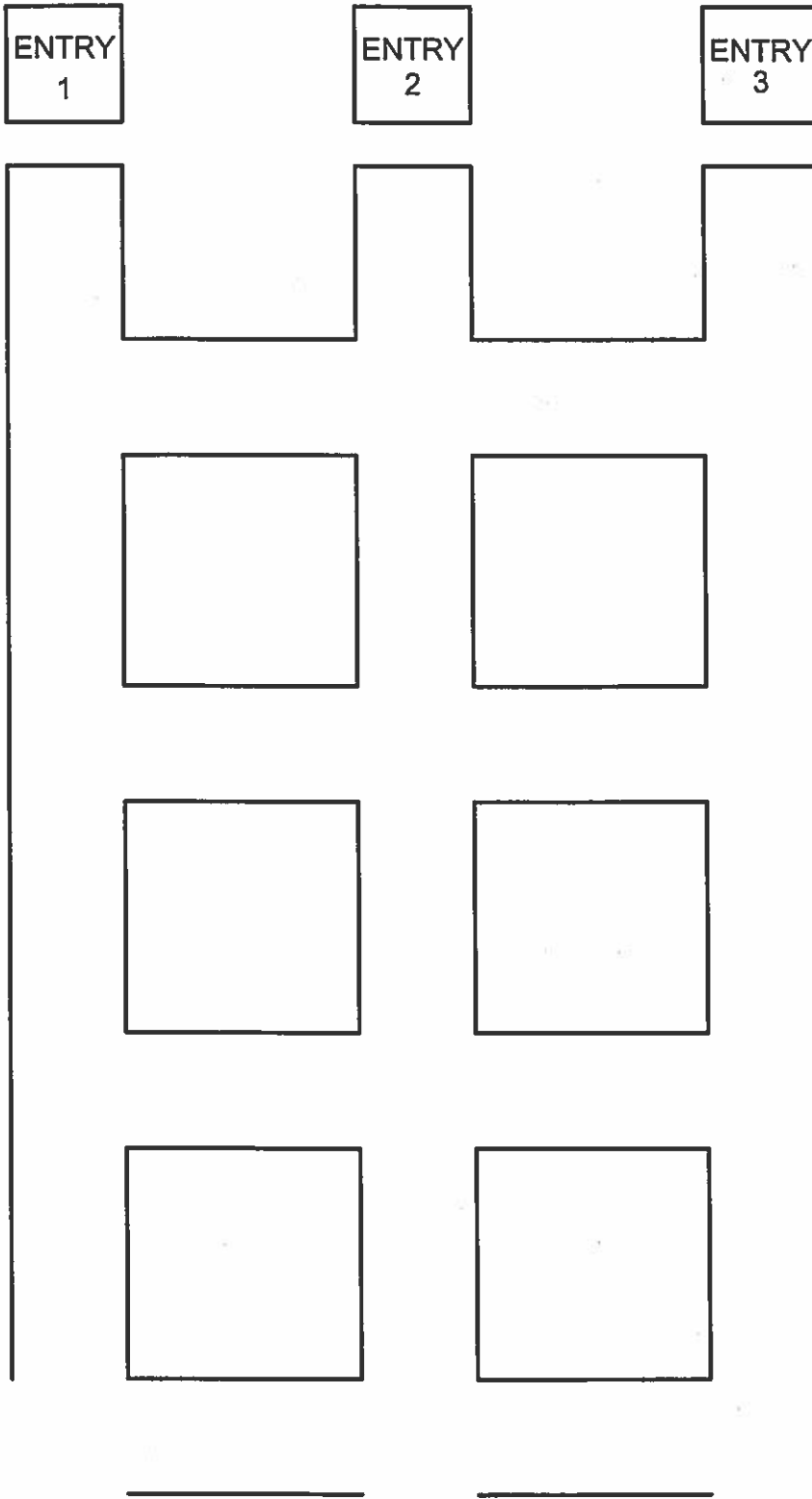


Typical Section/Face Ventilation

2015 Hatfield & McCoy Mine Safety Competition Preshift Contest



2015 Hatfield & McCoy Mine Safety Competition Preshift Contest



LAST OPEN CROSSCUT AIR READINGS

ENTRY WIDTH → 19.5 Feet

ENTRY HEIGHT → 5 Feet

VENTILATION CONTROLS IN-PLACE

Velocity - 136 fpm

$19.5' \times 5' = 97.5 \text{ Area}$

$97.5 \times 136 = 13,260 \text{ CFM}$

WITHOUT VENT. CONTROLS IN-PLACE

Velocity - 20 fpm

$19.5' \times 5' = 97.5 \text{ Area}$

$97.5 \times 20 = 1,950 \text{ CFM}$

ANEMOMETER TURNED BACKWARDS

Velocity - 864 fpm

$19.5' \times 5' = 97.5 \text{ Area}$

$97.5 \times 864 = 84,240 \text{ CFM}$

**PRE-SHIFT EXAMINATION CONTEST
JUDGES DISCOUNT SHEET**

CONTESTANT _____ NO. _____ *DENOTES DISCOUNT

OUTSIDE

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT CHECK IN	___	___*	1
(2) DID CONTESTANT CHECK SCSR	___	___*	3
(3) DID CONTESTANT CHECK METHANE/OXYGEN DETECTOR	___	___*	19
(4) DID CONTESTANT HAVE ALL REQUIRED EQUIPMENT	___	___*	2
(5) WAS CONTESTANT EQUIPMENT MAINTAINED IN OPERABLE CONDITION	___	___*	14
(6) DID CONTESTANT CHECK OUT	___	___*	1

NO. 1 ENTRY

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT TAKE GAS TEST IN ENTRY	___	___*	5
(2) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(3) DID CONTESTANT DTI ENTRY WHERE GAS TEST WAS MADE	___	___*	4
(4) DID CONTESTANT IDENTIFY ROOF TEST IN #1 ENTRY	___	___*	10
(5) DID CONTESTANT DTI AT POWER CENTER	___	___*	4
(6) DID CONTESTANT GAS TEST AT POWER CENTER	___	___*	5
(7) DID CONTESTANT TAKE PROPER GAS TEST AT POWER CENTER	___	___*	6
(8) DID CONTESTANT TAKE GAS TEST IN THE FACE AREA #1 ENTRY NEAR LAST ROW OF PERMANENT ROOF SUPPORT (FACE NOT BOLTED)	___	___*	5
(9) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(10) DID CONTESTANT DTI THE FACE AREA #1 ENTRY (NOT BOLTED)	___	___*	4
(11) DID CONTESTANT IDENTIFY 25 FT CUT	___	___*	11
(12) DID CONTESTANT PLACE A DANGER SIGN AT 25 FT CUT	___	___*	12
(13) DID CONTESTANT IDENTIFY NO VISIBLE WARNING FOR AREA NOT BOLTED	___	___*	11
(14) DID CONTESTANT PLACE DANGER SIGN FOR NO VISIBLE WARNING	___	___*	12
(15) DID CONTESTANT ENTER UNSUPPORTED AREA OF #1 FACE	___*	___	16

CROSSCUT "A" BETWEEN 1 AND 2 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT IDENTIFY REFUSE ALTERNATIVE DEPLOYMENT BLOCKED	___	___*	11
(2) DID CONTESTANT PLACE A DANGER SIGN AT REFUSE ALTERNATIVE	___	___*	12

CROSSCUT "B" BETWEEN 1 & 2 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) NO HAZARDOUS CONDITIONS			

CROSSCUT "C" BETWEEN 1 & 2 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) NO HAZARDOUS CONDITIONS			

**PRE-SHIFT EXAMINATION CONTEST
JUDGES DISCOUNT SHEET**

CONTESTANT _____ NO. _____ *DENOTES DISCOUNT

NO. 2 ENTRY

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT TAKE GAS TEST IN ENTRY	___	___*	5
(2) DID CONTESTANT DTI ENTRY WHERE GAS TEST WAS MADE	___	___*	4
(3) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(4) DID CONTESTANT IDENTIFY ROOF TEST IN ENTRY	___	___*	10
(5) DID CONTESTANT TAKE GAS TEST AT LAST ROW OF BOLTS #2 FACE	___	___*	5
(6) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(7) DID CONTESTANT DTI THE LAST ROW BOLTS #2 FACE	___	___*	4
(8) DID CONTESTANT IDENTIFY 1.6 PERCENT CH4 IN#2 FACE	___	___*	11
(9) DID CONTESTANT REMOVE ROOF BOLTER OPERATORS FROM AFFECTED AREA.	___	___*	12
(10) DID CONTESTANT DISCONNECT ROOF BOLTER FROM POWER SOURCE	___	___*	12
(11) DID CONTESTANT VERBALLY IDENTIFY LINE CURTAIN NOT INSTALLED	___	___*	11
(12) DID CONTESTANT INSTALL LINE CURTAIN IN #2 FACE	___	___*	12
(13) DID CONTESTANT RE-TEST FOR GAS AFTER VENTILATING FACE	___	___*	5
(14) DID CONTESTANT IDENTIFY 4'RESIN BOLTS BEING INSTALLED	___	___*	11
(15) DID CONTESTANT PLACE DANGER SIGN AT 4' BOLTS	___	___*	12

CROSSCUT "A" BETWEEN 2 AND 3 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT VERBALLY IDENTIFY BATTERY CHARGING STATION IN RETURN	___	___*	11
(2) DID CONTESTANT PLACE DANGER SIGN AT BATTERY CHARGING STATION	___	___*	12

CROSSCUT "B" BETWEEN 2 & 3 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT IDENTIFY ELECTRICIAN SPLICING #2 S/C CABLE WITHOUT BEING LOCKED & TAGGED	___	___*	11
(2) DID CONTESTANT PLACE DANGER SIGN OR HAVE ELECTRICIAN LOCK AND TAG #2 S/C RECEPTACLE	___	___*	12
(3) DID CONTESTANT IDENTIFY MISSING CHECK CURTAIN	___	___*	11
(4) DID CONTESTANT INSTALL CHECK CURTAIN	___	___*	12

CROSSCUT "C" BETWEEN 2 & 3 ENTRIES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT DETERMINE CORRECT SECTION VENTILATION	___	___*	7
(2) DID CONTESTANT TAKE LAST OPEN CROSSCUT AIR READING IN PROPER LOCATION	___	___*	9
(3) DID CONTESTANT TAKE PROPER AIR READING	___	___*	8

**PRE-SHIFT EXAMINATION CONTEST
JUDGES DISCOUNT SHEET**

CONTESTANT _____ NO. _____ *DENOTES DISCOUNT

NO. 3 ENTRY

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT TAKE GAS TEST IN ENTRY	___	___*	5
(2) DID CONTESTANT DTI ENTRY WHERE GAS TEST WAS MADE	___	___*	4
(3) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(4) DID CONTESTANT IDENTIFY ROOF TEST	___	___*	10
(5) DID CONTESTANT TAKE GAS TEST IN THE FACE AREA #3 ENTRY	___	___*	5
(6) DID CONTESTANT TAKE A PROPER GAS TEST	___	___*	6
(7) DID CONTESTANT DTI THE FACE AREA #3 ENTRY	___	___*	4
(8) DID CONTESTANT IDENTIFY ACCUMULATIONS OF LOOSE COAL & COAL DUST IN #3 FACE AREA	___	___*	11
(9) DID CONTESTANT PLACE DANGER SIGN AT ACCUMULATIONS INSTALLED	___	___*	12
(10) DID CONTESTANT IDENTIFY S/C OPERATOR IN RED ZONE	___	___*	11
(11) DID CONTESTANT REMOVE S/C OPERATOR FROM RED ZONE	___	___*	12

GENERAL RULES

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
(1) DID CONTESTANT RUN	___*	___	13
(2) DID CONTESTANT EXAM ALL ACCESSIBLE AREAS	___	___*	18
(3) DID CONTESTANT COMPLY WITH GENERAL RULES NOT COVERED IN THE DISCOUNT SHEET	___	___*	19

PRE-SHIFT - CERTIFIED EXAMINER'S REPORT

Use Indelible Pencil or Ink

Report Shall Be Signed When Finished

Date of Examination: _____

Time From: _____ AM/PM

To: _____ AM/PM

Section/Area: _____

Reported Outside? Yes ___ No ___

Time: _____ AM/PM

Reported By: _____

Received By: _____ (INITIAL)

(AUTHORIZED PERSON)

Pre-shift required within 3 hours prior to any 8 hour interval.

Location	Hazardous Condition	Action Taken
No. 1 Face	25' Deep Cut	Danger Off
No. 1 Face	No Reflectors or Danger Signs	Hang Reflectors or Danger Signs
A-Crosscut between 1 and 2 entries	Refuge Alternative blocked by supplies	Danger Off or Move Supplies
No. 2 Face	CH4 1.6% - No line curtain installed	Ventilated per plan - 0.4% CH4
No. 2 Face	Roof Bolter energized/ Men working in 1.6% CH4	Remove men from face/ Disconnect Power from Power Box
No. 2 Face	4' Resin Bolts Installed	Danger Off
B-Crosscut between 2 and 3 entries	No Check Curtain Installed	Install Check Curtain
No. 3 Face	Accumulations of Loose Coal and Coal Dust	Danger Off
No. 3 Entry	Continuous Miner being trammed with SC Operator in Red Zone	Remove SC Operator from Red Zone
B-Crosscut between 2 and 3 entries	Elect. Splicing SC Cable without Locking and Tagging Power Out	Stop Work and have Elect. Lock and Tag Power Out.
A-Crosscut between 2 and 3 entries	Battery Charging Station in Return	Danger Off

Air Measurements

Location	CFM	Location	CFM
LOCC - "C" x-cut between 2 and 3 entries	13,260 cfm 1,950 cfm* 84,240 cfm**		

Remarks: *Ventilation Controls not in place
**Anemometer turned backwards

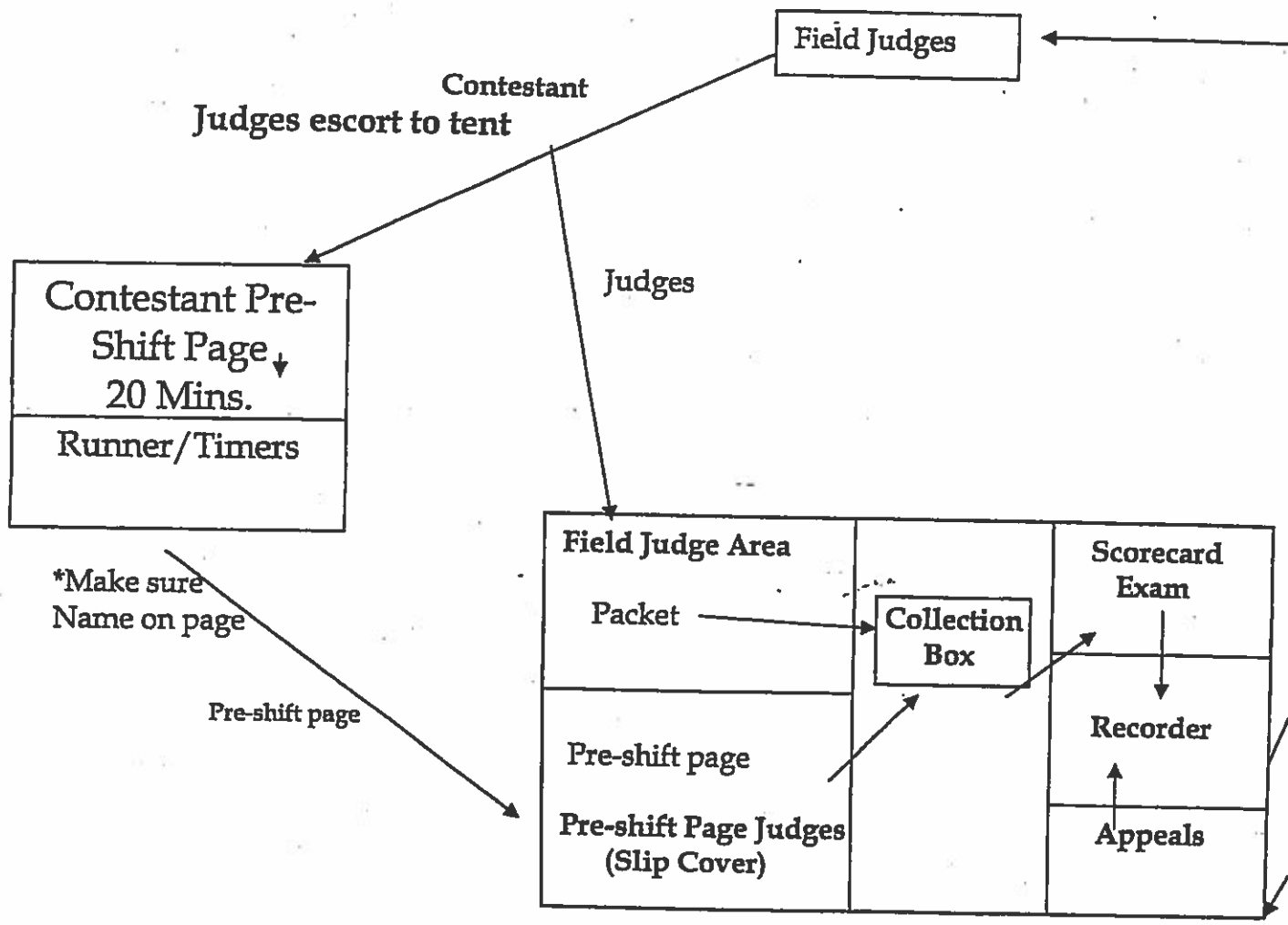
Signed by Pre-shift Certified Examiner

Date

Certification Number



*Packet Flow Chart



*Make sure Name on page

Pre-shift page