

National Mine Rescue
Association
Post 6

Pre-shift Competition
June 6th 2013

Judges Packet

Ohio Department of Natural Resources
Mineral Resources Management
Jerry L. Stewart Mine Safety Training
Center
Cadiz, Ohio

Director - James Zehringer
Chief - Lanny Erdos

Day 3 (June 6, 2013)
PRE-SHIFT CONTEST ASSIGNMENTS

Chief Judge

John Ziants ODNR

Appeals

Pete Peluchette MSHA D-3

John Ziants ODNR

Guard/Runner

Sherry Kelly MSHA D-3

Andrew Stalder MSHA D-3

Written Examiners

Bob Talbert MSHA D-3

Robyn Brenegan MSHA D-3

Assistant Chief Judge

Bob Talbert MSHA D-3

Registration/Recorders

Tina Lashbaugh MSHA D-3

Janice Barath MSHA D-3

Mary Harbaugh MSHA D-3

Time Keepers/Pre-Shift Books

Bill McClane MSHA D-3

Craig Carson PA-DEP

John Nagel MSHA D-3

Brandon Cruthman MSHA D-3

Panel Judge(s) GROUP 11

Adrian Gordon PA-DEP

Rich Hurley ODNR

Steve Cheslea ODNR

JUDGES

Group 1

Reba Crawford [c] MSHA D-4

Jack Swan [t] PA-DEP

Group 2

James Schuessler [c] PA-DEP

David Morris [t] MSHA D4

Group 3

Lynn Huggins [c] A&CC

Fred Wills [t] MSHA D-4

Group 4

Bob Huggins [c] MSHA RET

Mel Byers [t] ODNR

Group 5

Dustin Mowery [c] PA-DEP

Joe Heagney [t] ODNR

Group 6

Jeff Maxwell [c] MSHA D-3

Frank Petro [t] PA-DEP

Group 7

Jan Lyall [c] MSHA D-3

Brent Harmon [t] PA-DEP

Group 8

Ryan Carman [c] MSHA D-3

Jeff Kerch [t] PA-DEP

Group 9

Abbie Wilt [c] MSHA D-3

Harry Casteel [t] PA-DEP

Group 10

Gary Harris [c] MSHA D-4

Jeff Stancheck [t] PA-DEP

Ohio Valley Mine Rescue, First-Aid, Bench, and Pre-Shift Contest

June 4-5-6, 2013

Preshift Working Order

Working Order	Company Name Team Name	Contestant
1	Walter Energy JWR Mine #4	Thomas Ray
2	Consol Energy Blacksville No. 2	Jim Ponceroff
3	Consolidation Coal Company Loveridge Black	Richard R. Shockley
4	Consol Energy Blacksville No. 2	Tony Novak
5	Alpha Natural Resources Coal River East	Scotty Kinder
6	Alpha Natural Resources Emerald Blue	Derek Corcoran
7	Alliance Coal Co. Tunnel Ridge Mine Team #2	Ryan Sanford
8	McElroy Coal Company McElroy Blue	Kelvin Jolly
9	Wolf Run Mining Company Wolf Run White	Chris Chisolm
10	Cumberland Coal Resources, L.P. Cumberland JC	Jason Grasha
11	McElroy Coal Company McElroy Red	Dave Polinski
12	Mingo Logan Coal Co. Mountain Laurel Gold Team	Eddie Lawson
13	Alpha Natural Resources Emerald White	Chris Lewis
14	Consol Energy Blacksville No. 2	Doug Moyer

Ohio Valley Mine Rescue, First-Aid, Bench, and Pre-Shift Contest

June 4-5-6, 2013

Preshift Working Order

Working Order	Company Name Team Name	Contestant
15	Wolf Run Mining Company Wolf Run White	George Brooks
16	Patriot Coal Federal No. 2	Daniel Curry
17	Alpha Natural Resources Emerald White	Brandon Jones
18	Consol of PA LLC Enlow Fork Green	Curt Hoffman
19	Alpha Natural Resources, Rockspring Dev., Inc. Rockspring Gold	Mark Jerasonek
20	Consolidation Coal Company Loveridge White	James Fox
21	Mettiki Coal WV LLC Mettiki Team #2	Mike Fulmer
22	Mingo Logan Coal Co. Mountain Laurel Gold Team	Shawn Grimmett
23	Consol Pa Coal Co. Bailey Blue	Brandon Tennant
24	Consol of PA LLC Enlow Fork Gold	Greg Thorn
25	Consol Energy Robinson Run Team Black	Heath Olson
26	Alpha Natural Resources Coal River East	Charles Brown
27	Arch Coal, Inc.-Beckley Mining Complex Beckley Gold	James Griswold
28	Consol Pa Coal Co. Bailey Blue	Jason Wylie

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June 4-5-6, 2013

Preshift Working Order

Working Order	Company Name Team Name	Contestant
29	Arch Coal, Inc.-Beckley Mining Complex Beckley Gold	Kevin Burnette
30	Consol Energy Robinson Run Team Black	William Zirkle
31	Consol Energy Robinson Run Team Black	Sherman Goodwin
32	Alpha Natural Resources Coal River East	Grayson Cox
33	Arch Coal, Inc.-Beckley Mining Complex Beckley Gold	Roy Smith
34	Alpha Natural Resources Coal River East	James Thomas
35	Arch Coal, Inc.-Beckley Mining Complex Beckley Gold	Jeff Varney
36	Arch Coal, Inc.-Beckley Mining Complex Beckley Gold	Kenny Craddock

NMRA Post 6 Pre-shift Competition
June 6th 2013

Contestant Statement

“Welcome to the Tunzafun #2 coalmine. I am ___(judge)___ and this is ___(judge)___.

The #2 mine produces coal Monday thru Saturday on all three shifts. It is the beginning of the Sunday afternoon shift. The mine is idle from production today. The mine is walking height, and liberates Methane gas and H₂O. Your assignment is to pre-shift a section of the mine so that the Midnight shift can resume coal production.

You are to examine the 5 Left / 4 North advancing Continuous Miner gate section. #1 Entry is the Belt entry (point), #2 is the Intake & Haulage entry (point), and #3 Entry is the Return entry (point). This mine is a longwall mine with the longwall nearing completion of the 4 Left 4 North panel.

The main mine fan is operating and exhausting. The bleeder fan, located at the top end of 2 Left 4 North, is operating and exhausting. Neither can be stopped or reversed. There will be a construction crew setting cribs in the back bleeder in the vicinity of the 2 Left bleeder fan up-cast during your examination.

On the dayshift yesterday, the 5 Left Production crew ‘holed’ the #3 entry into the back bleeder system. Pre-built airlock doors had been installed on the bleeder-side where the 5 Left entries mined into the bleeder.

You instructions are to:

- conduct a pre-shift examination of the 5 Left 4 North section
- correct whatever hazards or violations you may find if means are available to do so before leaving the section.
- leave the section in compliance with approved Ventilation and Roof Control Plans

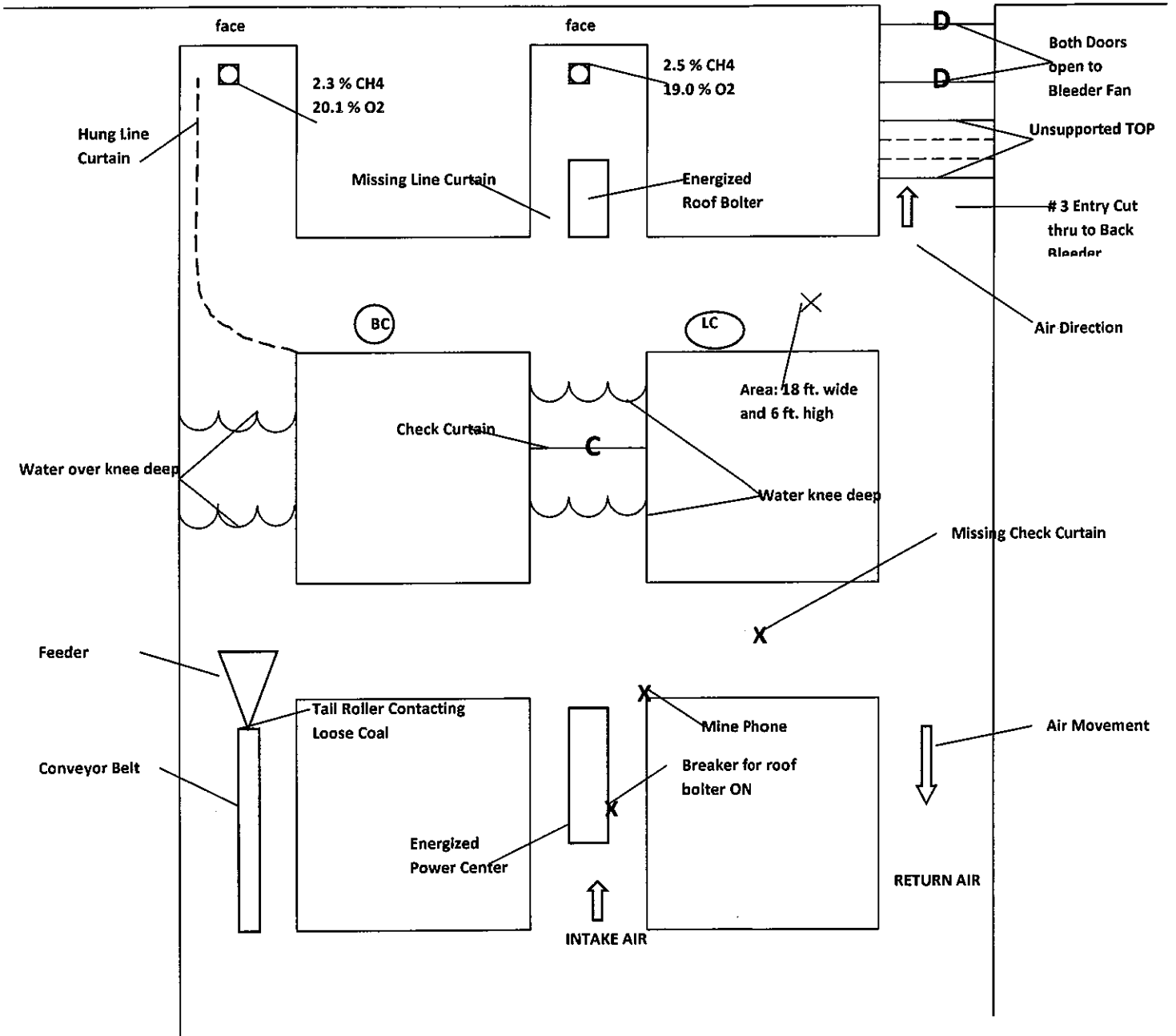
After reading this, you will be given this Problem statement, the Mine Ventilation Plan, the Roof Control Plan, and two blank maps. You will then have five minutes to review the materials. Upon starting the clock, you will have 30 minutes to complete the problem. You will be notified when one minute remains.”

Good Luck!

Bleeder Fan Running



Bleeder System



VENTILATION PLAN

1. Ventilation curtains in faces shall be hung on the Intake-side of entries, and maintained to within 5 feet of the face or the last full row of permanent roof supports.
2. Permanent ventilation (stoppings) shall be maintained up to and including the third connecting crosscut.

3. Air Quantities Required

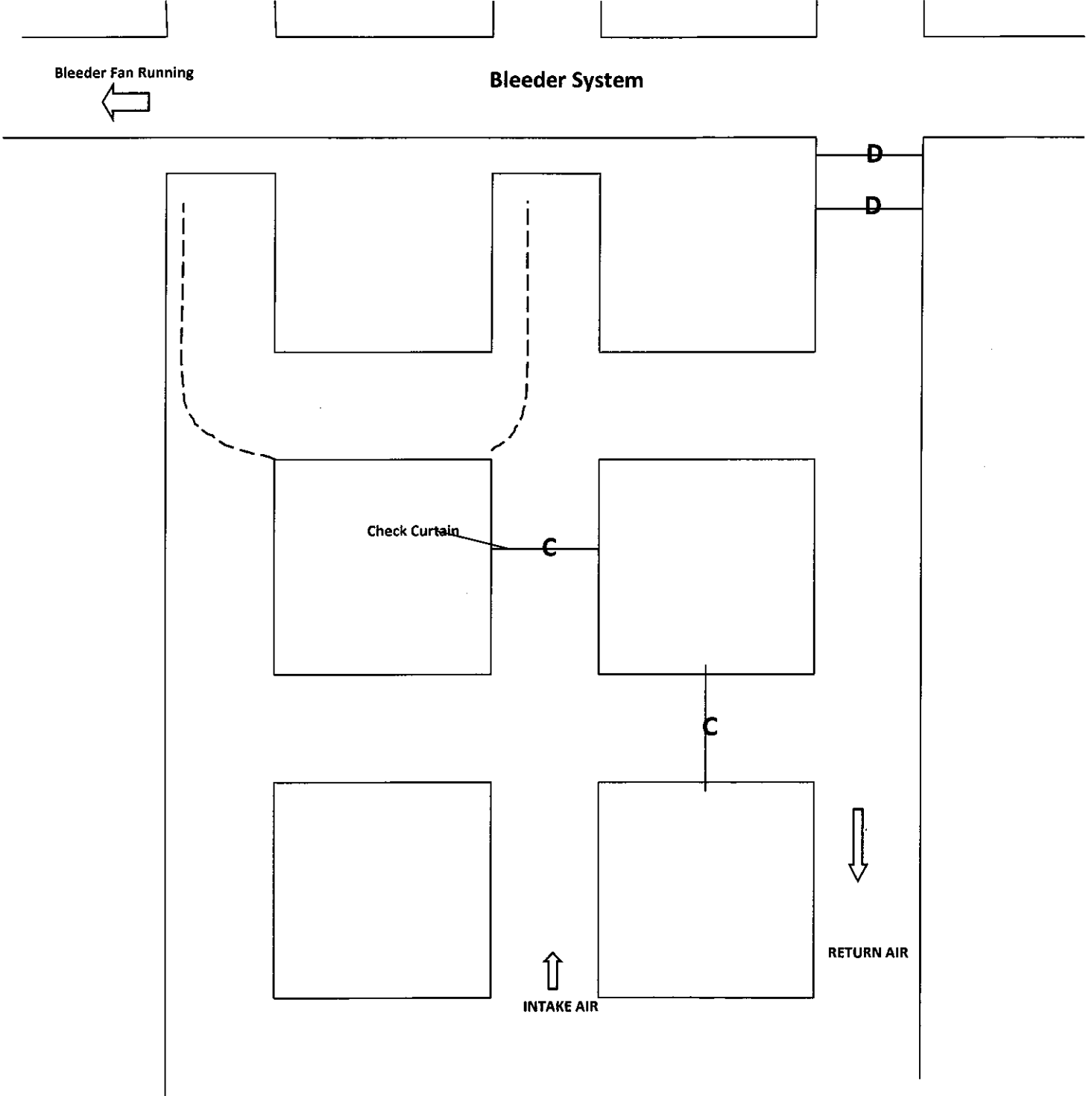
Working Face	6,000 CFM
Idle Face	3,000 CFM
Bolting Face	3,000 CFM
Last Open Crosscut	13,000 CFM

4. Planned Gate Entry cut-throughs to the Bleeder System shall have pre-built Air Lock Doors installed in them and after the cut-through, shall be kept **closed** at all times to maintain separation of Main Fan and Bleeder Fan ventilating currents.

Roof Control Plan

1. The Roof Control Plan requires 5-foot fully grouted resin bolts to be installed on 5-foot by 5-foot centers, with a minimum of 4 bolts per row.
2. Roof bolts are required to be installed to within 5 feet of the face.
3. The depth of mining cuts shall not exceed 20 feet as measured from the last row of permanent supports.
4. Faces shall be bolted within 24 hours of mining; except during equipment (roof bolter) breakdowns. Upon completion of repairs, bolting of unsupported faces shall immediately begin.

Tunzafun # 2 Mine Ventilation Plan



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NMRA Post 6 Pre-shift Competition June 6th 2013

Examiners Book Entry's Hazardous Conditions & Violations

<u>Location</u>	<u>Violation or hazardous conditions:</u>	<u>Corrective Actions</u>
1. # 3 Entry	Airlock doors to back bleeder open	called back bleeder /had doors closed
2. #1 Entry face	2.3% CH4	de-energized section power center AND ventilated to face / cleared to 0.2% CH4 – corrected
3. #1 Entry	tail roller in loose coal	dangered -out & reported
4. #2 Entry face	2.5% CH4	hung curtain, cleared to 0.2% -corrected
5. #2 Entry	19.0 % oxygen	hung curtain, corrected to 20.2%
6. #2 Entry	line curtain missing	installed line curtain - corrected
7. #2 Entry	energized bolter	corrected - de-energized bolter (or PC)
8. LOXC 2-3	less than 13,000	corrected - hung check curtain 2-3
9. #1 Entry	H2O over knee deep	dangered -out & reported

Judges NOTES, Tips, and PROCEDURES:

1. Air Lock Doors in Entry 3 are the key to CORRECTLY working the problem.
2. **AFTER** the examiner makes gas check and corrects vent, turn card over showing over showing **0.2 %** Ch4.
3. Examiner must **IMMEDIATLEY** de-energize Power Center after examining either #1 or #2 Face, and finding Ch4 over **2.0 %**;
4. If / When examiner installs missing check curtain in the outby crosscut 2-3, ventilation is established in the entire last open crosscut and Gases in faces can be cleared REGARDLESS of what is done with the Airlock Doors, open or closed.

5. If / When the examiner tries use the mine phone to call the back bleeder, the Judge will say “This is the Back Bleeder”. and the ‘open’ Air Lock doors will immediately be closed IF / When requested by the examiner, (Judge says immediately “**Doors are closed**”), restoring proper section ventilation *IF* check curtain has been installed 2-3, 1st break outby the last open.
6. The problem’s ventilation is **CORRECT** when
 - a. the Airlock doors are closed, .
 - b. the outby check curtain 2-3 is installed, and
 - c. the line curtain is installed in #2 Entry ON THE INTAKE / BLOWING side of the entry (per the Vent Plan Map)

7. **IMPORTANT:** If check 2-3 is installed, the gases in the faces can be cleared whether or not the airlock doors are closed, because air flow is established to the Last Open across #1 and #2 Entries.

- when applicant starts to measure **area** of Last Open 2-3, hand the contestant the Width x Height Card “**6 feet X 18 Feet**”
- **After** a one-minute air reading, give the relevant VELOCITY card to the contestant. The card you give him will depend upon the both the status of the airlock doors being either OPEN or CLOSED, and check curtain 2-3 being UP or DOWN.

1. Doors Closed / Check Curtain in (correct)	139	(15,012 cfm)
2. Doors Closed / Check curtain out	0	
3. Doors Open / Check Curtain in	213	(23,004 cfm)
4. Doors Open / Check Curtain out	0	
- Turn Air Direction ARROW #3 # Entry face down if / when contestant closes both AL Doors
- Judges: Be sure to **collect ALL Velocity and Area placards** from contestant immediately after he writes down the information. Be SURE To leave stopwatch at Check-in for use by next set of judges. AND pick up all DTI cards and put in Envelope.

CONTESTANT: _____ WORKING No.: _____

JUDGES INSTRUCTIONS

1. Show contestant time clock and check in/out board. Contestant only has to hang tag on board and does not have to sign and date board.
2. Contestant must provide own distance measuring device, tool apron, blank index cards, pen/pencil, paper, clip board, anemometer, watch, roof testing device, and detector.
3. When contestant is ready, READ THE STATEMENT. Then provide him/her with the blank mine map, statement, and ventilation and roof control plans. Contestant has 5 minutes to review these and cannot travel into the mine until the clock is started. **THE 5-MINUTE REVIEW IS DONE WITH THE CLOCK NOT YET STARTED.**
4. Contestants have 30 minutes after starting clock to complete the problem. Judges will notify contestant when 1 minute is left.
5. **Do not** take contestant back on field after clock is stopped & **do not** discuss discounts.

JUDGING Checklist INFORMATION

<u>OUTSIDE</u>	<u>CHECK IF DONE</u>
START CLOCK.....	_____
CHECK IN.....	_____
CHECK SCSR.....	_____
CHECK GAS DETECTOR (Must be left on during problem).....	_____
CHECK IF CONTESTANT HAS REQUIRED EQUIPMENT	
SAFETY CAP.....	_____
SAFETY BOOTS (not shoes).....	_____
MINING BELT w/ID TAG THAT MATCHES CHECK-IN TAG.....	_____
MSHA APPROVED CAP LIGHT (must work but can be left off)....	_____
SCSR.....	_____
ANEMOMETER.....	_____
WATCH.....	_____
MSHA APPROVED GAS DETECTOR (must be left on).....	_____
ROOF TESTING DEVICE.....	_____
DISTANCE MEASURING DEVICE.....	_____
TOOL APRON.....	_____
BLANK INDEX CARDS.....	_____
PEN/PENCIL/MARKER.....	_____
PAPER.....	_____
CLIPBOARD.....	_____
CHECK OUT.....	_____

JUDGING Checklist / INFORMATION

GAS TESTS & DTI's, VENTILATION

	TEST MADE	DTI TEST
No. 1 Entry (anywhere in entry).....	_____	_____
No. 2 Entry (anywhere in entry).....	_____	_____
No. 3 Entry (anywhere in entry).....	_____	_____
No. 1 Face	_____	_____
No. 2 Face.....	_____	_____
No. 3 at unsupported top.....	_____	_____
Section Power Center	_____	_____
Last Open air current direction (verbally state)	_____	_____

ROOF TESTS (verbally state visual exam in each entry)

	TEST MADE
No. 1 Entry.....	_____
No. 2 Entry.....	_____
No. 3 Entry.....	_____

HAZARDOUS CONDITIONS (verbally identify)

	IDENTIFY
No. 1 Entry	
Water over knee-deep.....	_____
Over 2.0 % CH4 in face (de-energize Section PC).....	_____
Belt Tail Roller in loose coal.....	_____
Water over knee deep	_____
 No. 2 Entry	
Energized PC with over 2.0 % CH4 in faces 1 and 2	_____
Energized Roof Bolter in Face with over 2.0 % CH4	_____
Over 2.0 % CH4 in face (de-energize Section PC).....	_____
Missing Line Curtain.....	_____
19.0 % O2.....	_____
 No. 3 Entry	
Air Lock Doors open to Back Bleeder.....	_____
Missing Check Curtain next-to-Last Open 2-3.....	_____
No air flow / ventilation in Last Open 2-3.....	_____

PRESHIFT - CERTIFIED EXAMINER'S REPORT

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)

Preshift required within 3 hours prior to any 8 hour interval.

Location	Hazardous Condition	Action Taken

Air Measurements

Location	CFM	Location	CFM

Velocities

Longwall Headgate : _____

Longwall Tailgate: _____

Remarks: _____

Signed by Preshift Certified Examiner

Date

Certification Number

Countersigned by Mine Foreman

Date

Certification Number

Countersigned by Operator/Agent

Date

Certification Number

6 ft x 18 ft

0,

1

139 v

213 v

