2013 KMI PRESHIFT EXAMINERS CONTEST

GOOD PRESHIFT EXAMINATIONS ARE MORE THAN MERE COMPLIANCE!

To The Judges

Thank you for your participation in the 2013 KMI PRE-SHIFT contest. We are utilizing the National & Kentucky State Pre-Shift rules in this contest. In doing this there will be two judges on every field. One will use the Kentucky State rules (blue) & the other will use the National rules (pink). Both judges must concur on the discounts or points given. There will be a color coded check list for each judge (National - pink) & (KY State - blue) in every contestant's packet. With the check off sheets all you have to do is check (yes) or (no) and give the discount or points as shown on the list and add them up. The rule number is provided on the check off sheet if a discount is required. There is a sample of each of the score sheets in the back of this book. When the contestants finish on the field each judge will need to fill out the correct score card, and both judges must sign each score card. PLEASE place the score sheets & score cards back in the contestant's packet when they are completed. We have tried to make this as simple as possible but if you should have any questions please contact either one of the Chief Judges.

Chief Judges

Danny Hendrix & Rodney James

Who am I judging with and what field are we on?

Judge:_____ Field:_____

JUDGES NOTES

1. If power center is deenergized at the high voltage e-stop then power CANNOT be restored to the unit & the water will roof out in the return. There will be no ventilation on the unit. If the contestant calls out for an electrician, tell them that the electrician has not arrived and is not coming in today.

2. If the pump is deenergized the water will roof out in the return, but the power to the pump may be restored by putting the breaker back up to the pump and the water will immediately be knee deep, and stay that way as long as the pump is energized.

3. In the #3 face area when the contestant gets to the placard that states that his/her spotter is alarming, they MUST use their spotter to check for the gases. A verbal statement IS NOT good enough.

4. When/if the contestant ventilates the #3 face area, he/she must stay on the fresh air side of the curtain or they endanger themselves with the low 0/2.

5. If the water is roofed in the return, the #3 entry will never clear, spotter will stay in alarm & there will be no air readings.

6. If the contestants ask about a test hole, tell them that it is good or correct.

7. Before allowing the contestant to start, make sure that ALL the breakers on the power center are in the correct position.
   A. High voltage – ON
   B. Shuttle car – ON
   C. Pump - ON
   D. Roof bolter – OFF
   E. Miner - OFF

STATEMENT

Hello my name is_____, & this is _____, we will be your judges for today's contest.

You are the pre-shift examiner for the D & R Coal No. 1 Mine. It is 4:00 a.m. Monday morning. The mine has been idle since midnight Saturday.

You are to conduct a pre-shift examination of the #2 unit in the 1st north main starting in the #3 entry, & examine all areas inby this point. All other areas of the mine have been examined by other certified people.

The No.1 entry is the return.
The No.2 entry is the belt entry & is the alternate escapeway.
The No.3 entry is the main intake entry. It is the primary escapeway.
Entries are numbered left to right.

The main fan is exhausting and operational.
The underground power is energized.

The 3rd. Shift mine foreman who is an M.E.T. will be on the surface while you're underground if you were to need anything, the certified electrician will be late today.

All violations & hazards shall be corrected if possible, if you are unable to correct it, it shall be indicated by a danger sign shown on index cards & placed on mine floor. Any condition found that does not comply with the approved plans will be considered as hazardous conditions.

A copy of the approved roof control plan, the approved ventilation plan and a blank map are all attached to this statement. You have five minutes to prepare then you must start the clock. Once you start the clock you will have 30 minutes to complete the problem.

D & R Coal No. 1 Mine

ROOF CONTROL PLAN

1. Roof bolts shall be installed on 4 X 4 centers to within 4' of the faces.

2. Maximum cut depth is 35'.

3. Maximum entry & crosscut widths in the mains are 19' wide and in the panels the maximum entry & crosscut widths are 19' wide. With minimum pillar centers 50' X 50'.

4. Openings that create an intersection shall be supported with at least 2 rows of permanent support on not more than 4' X 4' across the opening and inby any proposed X-cut before any other work or travel in the intersection, except qualified persons performing examination duties as required by law.

5. Crosscuts may be notched right or left but not across from each other in the same entry. For any one intersection, there shall be no more than one (1) unsupported crosscut opening adjacent to the intersection.

6. The first notch in a turn-out shall not be driven more than twenty-five (25) feet deep from the last full row of undisturbed bolts.

7. The minimum bolt length- 60" resin grouted rebar bolt.

8. Before any extended cuts are made four roof bolts one foot longer than bolts being used will be installed at the end of each prior cut to protect the miner operator and helper.

D & R Coal No. 1 Mine

VENTILATION PLAN

1. 6,500 CFM of quantity required when coal is being mined cut or loaded.

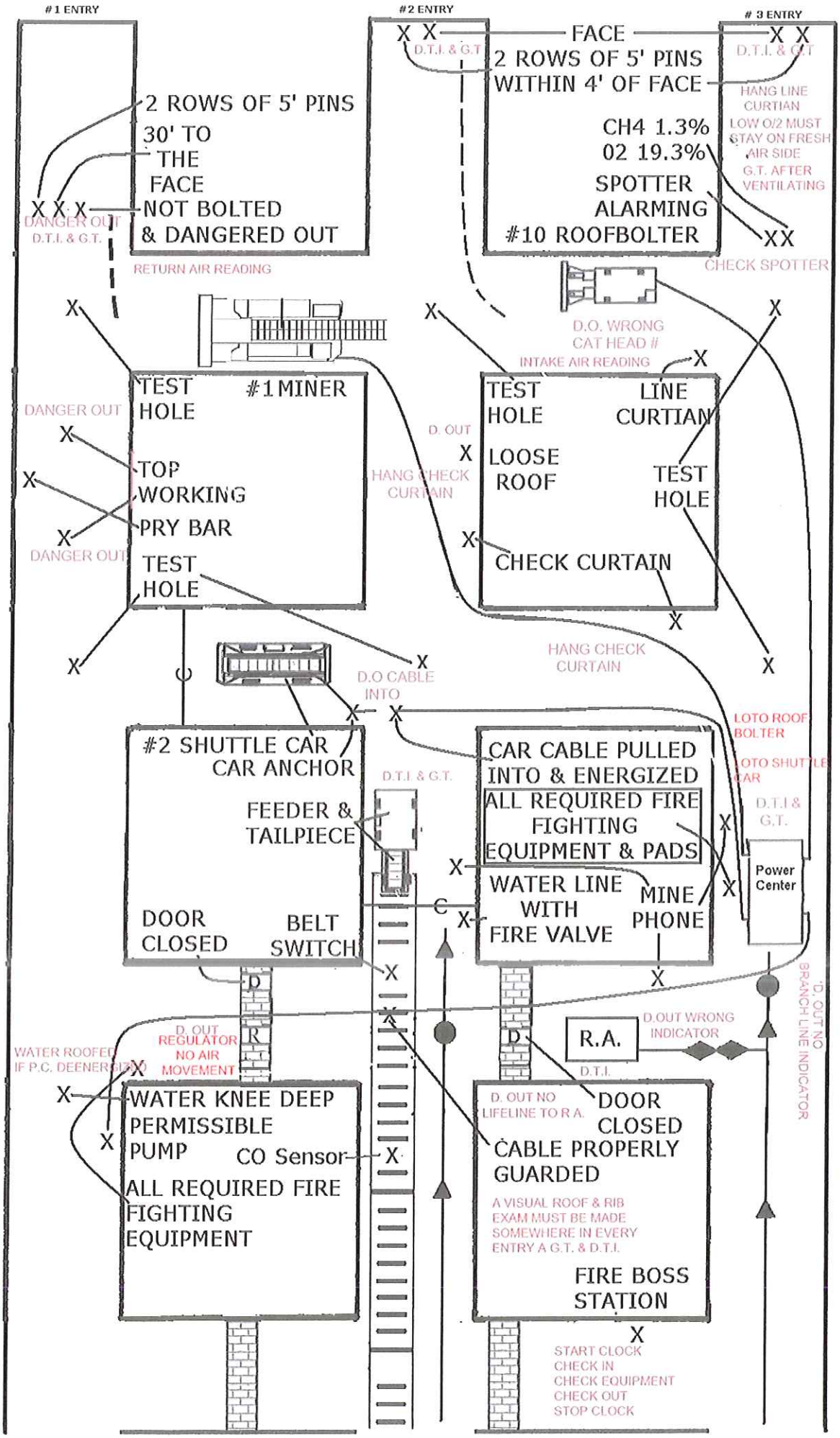
2. 11,500 CFM of air shall be maintained in the last open crosscut on the working sections when there are three open on the return.

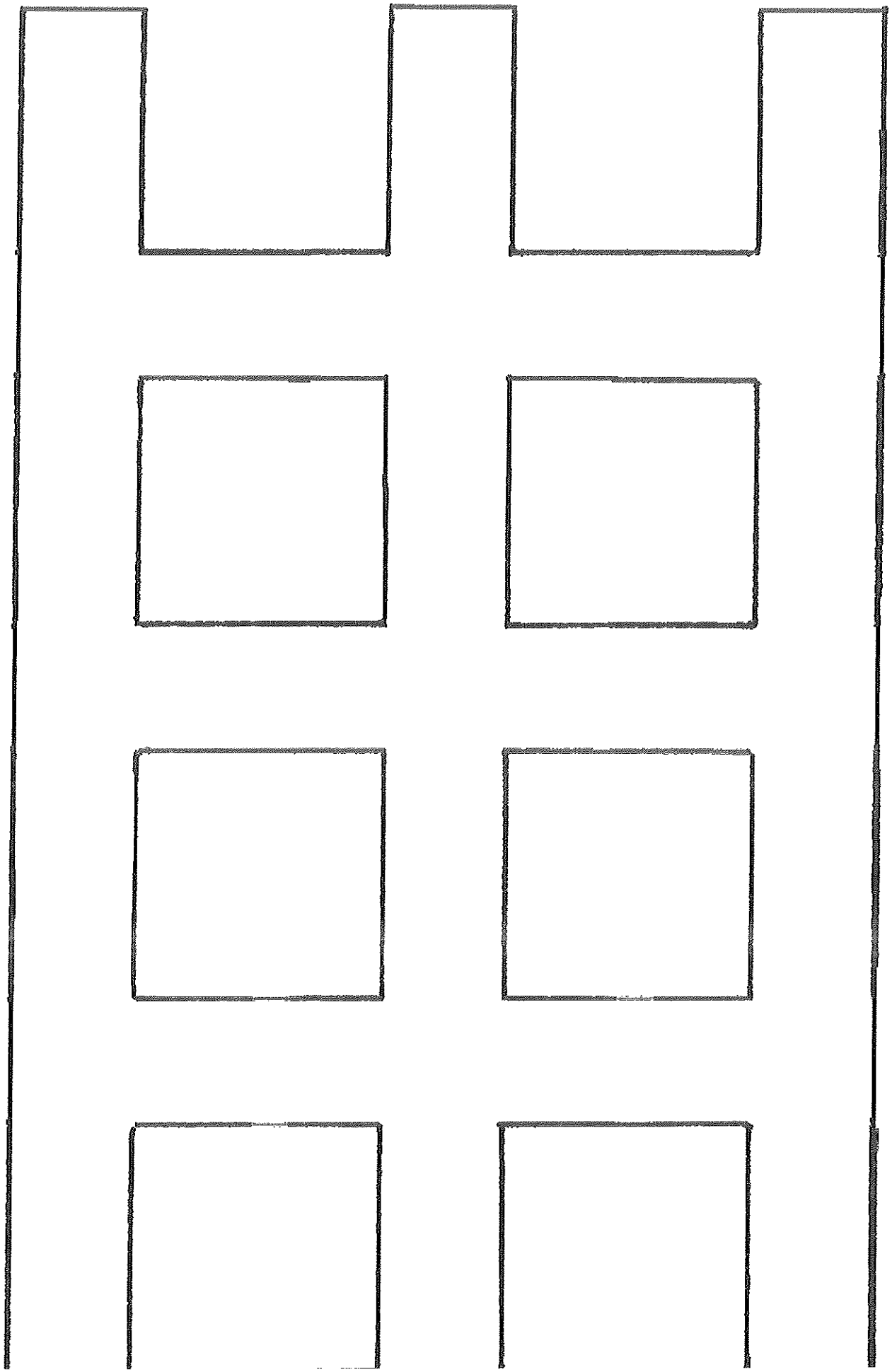
3. 9,000 CFM of air shall be maintained while installing and removing mechanized mining equipment.

4. The face of entry shall not be driven more than 40' feet inby the proposed crosscut off that entry.

5. During bolting cycle the line curtain shall be maintained to within 10' of the bumper of the bolter with a minimum of 3,000 CFM at the inby end of the line brattice.

6. 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.


#1 ENTRY
#2 ENTRY
3 ENTRY
2 ROWS OF 5' PINS
30' TO
THE
FACE
NOT BOLTED
& DANGERED OUT
DANGER OUT
D.T.I. & G.T.
RETURN AIR READING
FACE
2 ROWS OF 5' PINS
WITHIN 4' OF FACE
D.T.I. & G.T.
D.T.I. & G.T.
HANG LINE
CURTIAN
LOW O/2 MUST
STAY ON FRESH
AIR SIDE
G.T. AFTER
VENTILATING
CH4 1.3%
02 19.3%
SPOTTER
ALARMING
#10 ROOFBOLTER
CHECK SPOTTER
D.O. WRONG
CAT HEAD #
INTAKE AIR READING
TEST
HOLE
#1 MINER
DANGER OUT
TOP
WORKING
PRY BAR
DANGER OUT
TEST
HOLE
D. OUT
HANG CHECK
CURTAIN
TEST
HOLE
LINE
CURTIAN
LOOSE
ROOF
TEST
HOLE
CHECK CURTAIN
HANG CHECK
CURTAIN
D.O CABLE
INTO
#2 SHUTTLE CAR
CAR ANCHOR
FEEDER &
TAILPIECE
DOOR
CLOSED
BELT
SWITCH
D.T.I. & G.T.
CAR CABLE PULLED
INTO & ENERGIZED
ALL REQUIRED FIRE
FIGHTING
EQUIPMENT & PADS
WATER LINE
WITH
FIRE VALVE
MINE
PHONE
LOTO ROOF
BOLTER
LOTO SHUTTLE
CAR
D.T.I &
G.T.
Power
Center
D. OUT NO
BRANCH LINE INDICATOR
D. OUT
REGULATOR
NO AIR
MOVEMENT
WATER ROOFED
IF P.C. DEENERGIZED
D.OUT WRONG
INDICATOR
R.A.
D.T.I.
WATER KNEE DEEP
PERMISSIBLE
PUMP
CO Sensor
ALL REQUIRED FIRE
FIGHTING
EQUIPMENT
D. OUT NO
LIFELINE TO R.A.
DOOR
CLOSED
CABLE PROPERLY
GUARDED
A VISUAL ROOF & RIB
EXAM MUST BE MADE
SOMEWHERE IN EVERY
ENTRY A G.T. & D.T.I.
FIRE BOSS
STATION
START CLOCK
CHECK IN
CHECK EQUIPMENT
CHECK OUT
STOP CLOCK



2013 W.K.M.I. EXAMINERS PRE-SHIFT REPORT PAGE

DATE OF EXAMINATION	(+5+5+5) 8/23/2013	SECTION OR AREA EXAMINED	(+5) #2 Unit

TIME OF EXAMINATION	FROM:	(+5+5) '00:00	A.M. / P.M.	TO:	(+5+5) '00:00	A.M. / P.M.

TOTAL POSSIBLE POINTS = 40	TOTAL POINTS AWARDED = _____

LOCATION	CH4	O2	VIOLATION OR HAZARDOUS CONDITION	ACTION TAKEN
(+5) #1 ENTRY	(+5) 0.0	20.8	(+5) WATER ROOF (Only if PC deenergized)	(+5) DANGER OUT (Only if PC deenergiz)
(+5) #1 ENTRY			(+5) NO AIR MOVEMENT AT REGULOR	(+5) DANGERED OUT
(+5) #1 ENTRY			(+5) TOP WORKING	(+5) DANGERED OUT BOTH SIDES
(+5) #1 FACE	(+5) '0.0	20.8	(+5) NOT PROPERLT BOLTER (LAST 2 ROWS)	(+5) DANGER OUT
(+5) #2 ENTRY	(+5) 0.0	20.8	(+5) FIND NO BRANCHLINE LEADING TO RA	(+5) DANGER OUT
(+5) #2 ENTRY			(+5) CHECK CURTAIN DOWN	(+5) REPLACED / HUNG
(+5) #2 RIGHT			(+5) CHECK CURTAIN DOWN	(+5) REPLACED / HUNG
(+5) #2 ENTRY			(+5) LOOSE ROCK	(+5) DANGER OUT OR REMOVE
(+5) #2 FACE	(-+5) '0.0	20.8	NONE OBSERVED	
(+5) #3 ENTRY (RA)			(+5) WRONG INDICATOR ON BRANCHLINE FOR RA	(+5) DANGERED OUT
(+5) #3 FACE	(+5) 0.0	20.8	(+5) NO LINE CURTAIN / (+5) 19.3% O2 / (+5) 1.3% CH4	(+5) HUNG (+5) RECHECK / (+5) RECHECK
(+5)POWER CENTER	(+5) 0.0	20.8	(+5) ROOFBOLTER NUMBER DIFFERENT FROM CATHEAD	(+5) LOCK & TAGGED OUT
(+5)POWER CENTER			(+5) CAR CABLE PULLED INTO	(+5) LOCK & TAGGED OUT
TPP 65	TPP 30		TPP 70	TPP 70
TPA=_____	TPA=___		TPA =_____	TPA =_____

TTP = 235	TOTAL POINTS AWARDED = _____

AIR MEASUREMENTS (MUST BE CORRECT)

LOCATION	CFM	LOCATION	CFM
(+15) INTAKE	(+15) 13,500	(+15) RETURN	(+15) 9,196

TOTAL POSSIBLE POINTS = 60	TOTAL POINTS AWARDED = _____

REMARKS

TOTAL =	TOTAL = _____

(+25) *Wanna B Examiner*	(+10) 8/23/2013	(+10) A-24-48
SIGNED BY THE CERTIFIED EXAMINER	DATE	CERTIFICATION NUMBER

TOTAL POSSIBLE POINTS = 45	TOTAL = _____
TPP = 380	CONTESTANT'S TOTAL POINTS = _____
JUDGE:	JUDGE:

2013 K.M.I. PRE-SHIFT
KENTUCKY STATE Judges Discount Sheet

CONTESTANT NO. _____

NAME _____

POINTS AWARDED FROM OUTSIDE PAGE	MAX 100	
POINTS AWARDED FROM 1 & 1 RIGHT PAGE	MAX 105	
POINTS AWARDED FROM 2 & 2 RIGHT PAGE	MAX 70	
POINTS AWARDED FROM 3 PAGE	MAX 105	
POINTS AWARDED FROM POWER CENTER PAGE	MAX 50	
TOTAL POINTS AWARDED	MAX 430	
TOTAL DISCOUNTS		-
CONTESTANTS TOTAL FIELD SCORE		
CONTESTANTS FIELD TIME		_____:_____

JUDGE: _____

JUDGE: _____

REVIEWED BY

_____

NAME: _____

OUTSIDE	YES	NO	RULE #
START CLOCK	+10		# 9
CHECK IN	+5		# 9
DANGER BOARD DTI	+5+5+5		# 9
ARROW RED BEFORE ENTERING MINE	+5		# 9
SCSR CHECK			NATIONAL
GAS DETECTOR(S) CHECK			NATIONAL
REQUIRED EQUIPMENT			# 3
SAFETY HAT - SAFETY SHOES - MINING BELT	+5+5+5		# 3
ID TAG - CAP LIGHT - SCSR	+5+5+5		# 3
ANEMOMETER - TAPE LINE - MULTI GAS DETECTOR	+5+5+5		# 3
REQUIRED EQUIPMENT MAINTAINED			NATIONAL
ARROW GREEN AFTER EXITING MINE	+5		# 22
CHECK OUT	+5		# 22
STOP THE CLOCK	+10		# 22
GENERAL RULES			
DID CONTESTANT RUN		-10	# 25
DID CONTESTANT EXAM ALL ACCESSIBLE AREAS		-10	# 27
DID CONTESTANT COMPLY WITH GENERAL RULES NOT			
COVERED IN THE DISCOUNT SHEET		-10	# 27
TOTAL POSSIBLE POINTS	100		
TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED --- TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED			

#1 ENTRY & 1 RIGHT	YES	NO	RULE #
GAS TEST IN ENTRY			NATIONAL
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
DTI IN ENTRY WHERE GAS TEST WAS MADE			NATIONAL
VERBALIZE VISUAL ROOF EXAM IN ENTRY			NATIONAL
IF POWER CENTER IS DEENERGIZED WATER WILL ROOF			
FIND WATER ROOFED (ONLY IF P.C. IS DEENERGIZED)			NATIONAL
DANGER WATER ROOFED (ONLY IF P.C. IS DEENERGIZED)	+10		# 16
FIND NO AIR MOVEMENT AT REGULATOR			NATIONAL
DANGER REGULATOR	+10		# 16
FIND TOP WORKING			NATIONAL
DANGER TOP WORKING OUTBY SIDE	+10		# 16
DANGER TOP WORKING INBY SIDE	+10		# 16
ENDANGERING SELF BY ENTERING WORKING TOP AREA	-25 ea		# 26
FIND NOT PROPERLY BOLTED BEFORE EXTENDED CUT			NATIONAL
DANGER NOT PROPERLY BOLTED	+10		# 16
GAS TEST AT LAST ROW OF BOLTS	+5+5+5		# 14A
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
DTI AT LAST ROW OF BOLTS	+5+5+5		# 15
RETURN AIR READING IN PROPER LOCATION	+25		# 19
IMPROPER PROCEDURE FOR AIR READING			NATIONAL
IF ANEMOMETER IS TURNED BACKWARDS	-10		# 20
IF CONTESTANT USES CALCULATOR	-10		# 19
RETURN AIR READING TAKEN IN #1 ENTRY NOT #1 LEFT			NATIONAL
FAILURE TO EXAMINE AREA OUTBY KNEE DEEP WATER	-10		# 27
TOTAL POSSIBLE POINTS	105		
TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED			

# 2 ENTRY & 2 RIGHT	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY			NATIONAL
GAS TEST IN ENTRY (CH4 & 02)			NATIONAL
DTI IN ENTRY WHERE GAS TEST WAS MADE			NATIONAL
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
FIND NO LIFELINE LEADING TO R.A.			NATIONAL
DANGER NO LIFELINE LEADING TO R.A.	+10		# 16
FIND 2 RIGHT X-CUT B CHECK CURTIAN DOWN			NATIONAL
2 RIGHT X-CUT B INSTALL CHECK CURTAIN	+10		# 18
FIND NO CHECK CURTAIN BETWEEN X-CUT B & C			NATIONAL
INSTALL CHECK CURTAIN BETWEEN X-CUT B & C	+10		# 18
FIND LOOSE ROCK			NATIONAL
DANGER OR REMOVE LOOSE ROCK	+5		# 13
2 FACE GAS TEST	+5+5+5		# 14A
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
2 FACE DTI	+5+5+5		# 14A
TOTAL POSSIBLE POINTS	70		
TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED			

#3 ENTRY & 3 RIGHT	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY			NATIONAL
DTI IN ENTRY WHERE GAS TEST WAS MADE			NATIONAL
GAS TEST IN ENTRY			NATIONAL
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
FIND NO INDICATOR ON LIELINE FOR BRANCH LINE			NATIONAL
DANGER LIFELINE	+10		# 16
FIND WRONG INDICATOR FOR R.A. ON BRANCH LINE			NATIONAL
DANGER BRANCH LINE	+10		# 16
DTI REFUGE ALTERNATIVE			NATIONAL
CHECK ALARMING SPOTTER	+10		# 14
ENDANGERING SELF BY ENTERING LOW 02 INFACE OF #3	-25		# 26
FIND CURTAIN DOWN			NATIONAL
HANG LINE CURTAIN	+10		# 18
RETEST FOR LOW O2 AFTER VENTILATING	+10		# 14
GAS TEST AT 3 FACE	+5+5+5		# 14
DID CONTESTANT MAKE PROPER GAS TEST			NATIONAL
DTI AT THE #3 FACE	+5+5+5		# 15
INTAKE AIR READING	+25		# 19
IF ANEMOMETER IS TURNED BACKWARDS	-10		# 20
IF CONTESTANT USES CALCULATOR	-10		# 19
TOTAL POSSIBLE POINTS	105		
TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED			

POWER CENTER	YES	NO	RULE #
GAS TEST AT POWER CENTER			NATIONAL
DTI AT POWER CENTER			NATIONAL
FIND ROOFBOLTER NUMBER DIFFERENT FROM CATHEAD			NATIONAL
LOCK & TAG OUT ROOF BOLTER	+25		# 16
FIND CAR CABLE PULLED INTO			NATIONALS
LOCK & TAG OUT CAR CABLE	+25		# 16
IF CONTESTANT ENDANGERS SELF AT POWER CENTER	-25 ea		# 26
TOTAL POSSIBLE POINTS	50		
TOTAL POINTS DISCOUNTED			
TOTAL POINTS AWARDED			

2013 W.K.M.I. EXAMINERS PRE-SHIFT REPORT PAGE

DATE OF EXAMINATION	(-1) 8/23/2013	SECTION OR AREA EXAMINED	(-1) #2 Unit

TIME OF EXAMINATION	FROM:	(-1) '00:00	A.M. / P.M.	TO:	(-1) '00:00	A.M. / P.M.

TOTAL = _____

LOCATION	CH4	O2	VIOLATION OR HAZARDOUS CONDITION	ACTION TAKEN
(-2) #1 ENTRY	(-1) 0.0	20.8	(-2) WATER ROOF (Only if PC deenergized)	(-2) DANGER OUT (ONLY IF PC DEENERG)
(-2) #1 ENTRY			(-2) NO AIR MOVEMENT AT REGULOR	(-2) DANGERED OUT
(-2) #1 ENTRY			(-2) TOP WORKING	(-2) DANGERED OUT BOTH SIDES
(-2) #1 FACE	(-1) '0.0	20.8	(-2) NOT PROPERLY BOLTED (LAST 2 ROWS)	(-2) DANGER OUT
(-2) #2 ENTRY	(-1) 0.0	20.8	(-2) FIND NO BRANCHLINE LEADING TO RA	(-2) DANGER OUT
(-2) #2 ENTRY			(-2) CHECK CURTAIN DOWN	(-2) REPLACED / HUNG
(-2) #2 RIGHT			(-2) CHECK CURTAIN DOWN	(-2) REPLACED / HUNG
(-2) #2 ENTRY			(-2) LOOSE ROCK	(-2) DANGER OUT OR REMOVE
(-2) #2 FACE	(-1) '0.0	20.8	NONE OBSERVED	
(-2) #3 ENTRY (RA)			(-2) WRONG INDICATOR ON BRANCHLINE FOR RA	(-2) DANGERED OUT
(-2) #3 FACE	(-1) 0.0	20.8	(-2) NO LINE CURTAIN / (-2) 19.3% O2 / (-2) 1.3% CH4	(-2) HUNG/ (-2) RECHECK / (-2) RECHECK
(-2)POWER CENTER	(-1) 0.0	20.8	(-2) ROOFBOLTER NUMBER DIFFERENT FROM CATHEAD	(-2) LOCK & TAGGED OUT
(-2)POWER CENTER			(-2) CAR CABLE PULLED INTO	(-2) LOCK & TAGGED OUT
TOTAL=_____	Total=___		TOTAL = _____	TOTAL = _____

AIR MEASUREMENTS (MUST BE CORRECT)

LOCATION	CFM	LOCATION	CFM
INTAKE	9,120	(-2) RETURN	(-1) 9,120

Total= _____

REMARKS

(-1) *Wanna B Examiner*	(-1) 8/23/2013	(-1)
SIGNED BY THE CERTIFIED EXAMINER	DATE	CERTIFICATION NUMBER

TOTAL =	TOTAL = _____
	CONTESTANT'S TOTAL DISCOUNT = _____
JUDGE:	JUDGE:

2013 K.M.I. PRE-SHIFT
NATIONAL Judges Discount Sheet

CONTESTANT NO. _____

NAME _____

DISCOUNTS FROM OUTSIDE PAGE	
DISCOUNTS FROM 1 & 1 RIGHT PAGE	
DISCOUNTS FROM 2 & 2 RIGHT PAGE	
DISCOUNTS FROM 3 PAGE	
DISCOUNTS FROM POWER CENTER PAGE	
TOTAL POINTS DISCOUNTED	
CONTESTANTS TOTAL FIELD SCORE	
CONTESTANTS FIELD TIME	_____:_____

JUDGE: _____

JUDGE: _____

REVIEWED BY

NAME: _____

NAME: _____

OUTSIDE	YES	NO	RULE #
START CLOCK		-2	# 19
CHECK IN		-2	# 1
DANGER BOARD DTI			STATE
ARROW RED BEFORE ENTERING MINE			STATE
SCSR CHECK		-2	# 3
GAS DETECTOR(S) CHECK		-2	# 19
REQUIRED EQUIPMENT		-2	# 2
REQUIRED EQUIPMENT MAINTAINED		-2	# 14
ARROW GREEN AFTER EXITING MINE			STATE
CHECK OUT		-2	# 1
STOP THE CLOCK		-2	# 1
TOTAL DISCOUNTS GIVEN			
GENERAL RULES			
DID CONTESTANT RUN	-5		# 13
DID CONTESTANT EXAM ALL ACCESSIBLE AREAS		-5	# 18
DID CONTESTANT COMPLY WITH GENERAL RULES NOT			
COVERED IN THE DISCOUNT SHEET		-2	# 19
TOTAL DISCOUNTS GIVEN			

#1 ENTRY & 1 RIGHT	YES	NO	RULE #
GAS TEST IN ENTRY (CH4 & O2)		-3	# 5-A
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	# 10
IF POWER CENTER IS DEENERGIZED WATER WILL ROOF			
FIND WATER ROOFED (ONLY IF P.C. IS DEENERGIZED)		-10	# 11
DANGER WATER ROOFED (ONLY IF P.C. IS DEENERGIZED)		-10	# 12
FIND NO AIR MOVEMENT AT REGULATOR		-10	# 7
DANGER REGULATOR		-10	# 12
FIND TOP WORKING		-10	# 11
DANGER TOP WORKING OUTBY SIDE		-10	# 12
DANGER TOP WORKING INBY SIDE		-10	# 12
ENDANGERING SELF BY ENTERING TOP WORKING AREA		-20	# 16-C
FIND NOT PROPERLY BOLTED BEFORE EXTENDED CUT		-10	# 11
DANGER NOT PROPERLY BOLTED		-10	# 12
GAS TEST AT LAST ROW OF BOLTS (CH4 & O2)		-3	# 5-D
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
DTI AT LAST ROW OF BOLTS		-2	# 4
RETURN AIR READING #1 or #1 LEFT		-10	# 7
IMPROPER PROCEDURE FOR AIR READING		-2	# 8
IF ANEMOMETER IS TURNED BACKWARDS			STATE
RETURN AIR READING TAKEN IN #1 ENTRY NOT #1 LEFT		-5	# 9
FAILURE TO EXAMINE AREA OUTBY KNEE DEEP WATER		-5	# 18
TOTAL DISCOUNTS GIVEN			

# 2 ENTRY & 2 RIGHT	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	#10
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
GAS TEST IN ENTRY (CH4 & O2)		-3	# 5-A
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
FIND ON LIFELINE LEADING TO R.A.		-10	# 11
DANGER NO LIFELINE LEADING TO R.A.		-10	# 12
FIND 2 RIGHT X-CUT B CHECK CURTIAN DOWN		-10	# 11
2 RIGHT X-CUT B INSTALL CHECK CURTAIN		-10	# 12
FIND NO CHECK CURTAIN BETWEEN X-CUT B & C		-10	# 11
INSTALL CHECK CURTAIN BETWEEN X-CUT B & C		-10	# 12
FIND LOOSE ROCK		-10	# 11
DANGER OR REMOVE LOOSE ROCK		-10	# 12
2 FACE GAS TEST (CH4 & O2)		-3	# 5-D
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
2 FACE DTI		-2	# 4
TOTAL DISCOUNTS GIVEN			

#3 ENTRY	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	#10
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
GAS TEST IN ENTRY (CH4 & 02)		-3	# 5-A
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
FIND NO INDICATOR ON LIFELINE FOR BRANCH LINE		-10	# 11
DANGER LIFELINE		-10	# 12
FIND WRONG INDICATOR FOR R.A. ON BRANCH LNIE		-10	# 11
DTI REFUGE ALTERNATIVE		-2	# 4
DANGER BRANCH LINE		-10	# 12
CHECK ALARMING SPOTTER		-10	# 11
ENDANGERING SELF BY ENTERING LOW O2 IN FACE OF #3		-20	#16-A
FIND CURTAIN DOWN		-10	# 11
HANG LINE CURTAIN		-10	# 12
RETEST FOR LOW O2 AFTER VENTILATING (CH4 & 02)		-3	# 5-I
GAS TEST AT 3 FACE (CH4 & 02)		-3	# 5-H
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
DTI AT THE #3 FACE		-2	# 4
INTAKE AIR READING			STATE
IF ANEMOMETER IS TURNED BACKWARDS			STATE
TOTAL DISCOUNTS GIVEN			

POWER CENTER	YES	NO	RULE #
GAS TEST AT POWER CENTER (CH4 & 02)		-3	# 5-F
DID CONTESTANT TAKE PROPER GAS TEST		-2 ea	# 6
DTI AT POWER CENTER		-2	# 4
FIND ROOFBOLTER NUMBER DIFFERENT FROM CATHEAD		-10	# 11
LOCK & TAG OUT ROOF BOLTER		-10	# 12
FIND CAR CABLE PULLED INTO		-10	# 11
LOCK & TAG OUT CAR CABLE		-10	# 12
ENDANGER SELF AT POWER CENTER			STATE
TOTAL DISCOUNTS GIVEN			

JUDGES PLACARDS

If the contestant takes the proper INTAKE air reading WITHOUT either one of the check curtains hung show them or tell them this

19 X 5 x 45

If the contestant takes the proper INTAKE air reading WITH either of the check curtains hung show them or tell them this

19 X 5 X 96

If the contestant takes the proper INTAKE air reading WITH the water roofed show them or tell them this

19 X 5 X 0

If the contestant takes the proper RETURN air reading WITHOUT the water roofed show them or tell them this

19 X 6 X 80

If the contestant takes the proper RETURN air reading WITH the water roofed show them or tell them this

19 X 6 X 0

If contestant makes a gas check anywhere except where noted and they ask for a reading show them or tell them this gas reading

CH4 0.0

C0 0.0

0/2 20.8]

FATALS AS OF
07/25/2013

Jerry Watts
01-26-2013

Brandon Townsend
02-06-2013

Edward Finney
02-07-2013

Glen Clutter
02-12-2013

Timothy Chamness
02-13-2013

John Myles
02-19-2013

Asa Fitzpatrick
03-13-2013

Elam Jones
03-22-2013

Christopher Brown
06-06-2013

Nathanial Clarida
07/02/2013

OMSL & MSHA

Judge

On the behalf of the participants of this contest THANK YOU for taking time to judge each and everyone fairly. It is our hope and prayer that every contestant will learn something that will make them a better examiner and that it will help save a life and perhaps the livelihood of our fellow coal miners.

"Leaders think and talk about the solutions. Followers think and talk about the problems."

"Success is the sum of small efforts, repeated day in and day out."

"The standard you walk past, is the standard you accept"

PRO-ACTIVE = PROPER PRESHIFT EXAMINATIONS

PLEASE take a moment to remember our fallen coal miners & their families!!

Chief Judges

. Danny Hendrix . Rodney James

CONTESTANT'S PACKET

STATEMENT

Hello my name is_____, & this is _____, we will be your judges for today's contest.

You are the pre-shift examiner for the D & R Coal No. 1 Mine. It is 4:00 a.m. Monday morning. The mine has been idle since midnight Saturday.

You are to conduct a pre-shift examination of the #2 unit in the 1st north main starting in the #3 entry, & examine all areas inby this point. All other areas of the mine have been examined by other certified people.

The No.1 entry is the return.
The No.2 entry is the belt entry & is the alternate escapeway.
The No.3 entry is the main intake entry. It is the primary escapeway.
Entries are numbered left to right.

The main fan is exhausting and operational.
The underground power is energized.

The 3rd. Shift mine foreman who is an M.E.T. will be on the surface while you're underground if you were to need anything, the certified electrician will be late today.

All violations & hazards shall be corrected if possible, if you are unable to correct it, it shall be indicated by a danger sign shown on index cards & placed on mine floor. Any condition found that does not comply with the approved plans will be considered as hazardous conditions.

A copy of the approved roof control plan, the approved ventilation plan and a blank map are all attached to this statement. You have five minutes to prepare then you must start the clock. Once you start the clock you will have 30 minutes to complete the problem.

D & R Coal No. 1 Mine

ROOF CONTROL PLAN

1. Roof bolts shall be installed on 4 X 4 centers to within 4' of the faces.

2. Maximum cut depth is 35'.

3. Maximum entry & crosscut widths in the mains are 19' wide and in the panels the maximum entry & crosscut widths are 19' wide. With minimum pillar centers 50' X 50'.

4. Openings that create an intersection shall be supported with at least 2 rows of permanent support on not more than 4' X 4' across the opening and inby any proposed X-cut before any other work or travel in the intersection, except qualified persons performing examination duties as required by law.

5. Crosscuts may be notched right or left but not across from each other in the same entry. For any one intersection, there shall be no more than one (1) unsupported crosscut opening adjacent to the intersection.

6. The first notch in a turn-out shall not be driven more than twenty-five (25) feet deep from the last full row of undisturbed bolts.

7. The minimum bolt length- 60" resin grouted rebar bolt.

8. Before any extended cuts are made four roof bolts one foot longer than bolts being used will be installed at the end of each prior cut to protect the miner operator and helper.

D & R Coal No. 1 Mine

VENTILATION PLAN

1. 6,500 CFM of quantity required when coal is being mined cut or loaded.

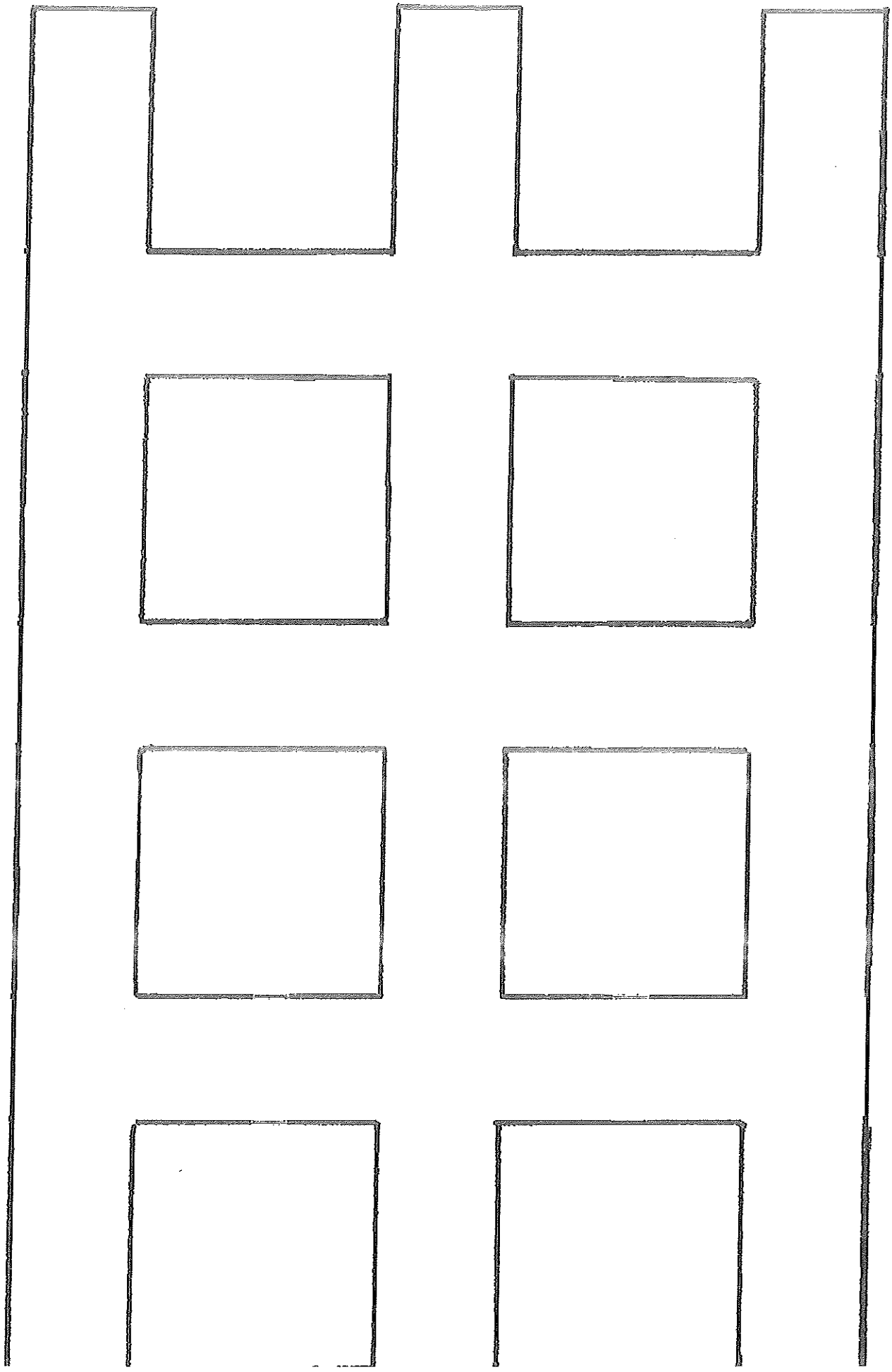
2. 11,500 CFM of air shall be maintained in the last open crosscut on the working sections when there are three open on the return.

3. 9,000 CFM of air shall be maintained while installing and removing mechanized mining equipment.

4. The face of entry shall not be driven more than 40' feet inby the proposed crosscut off that entry.

5. During bolting cycle the line curtain shall be maintained to within 10' of the bumper of the bolter with a minimum of 3,000 CFM at the inby end of the line brattice.

6. 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.



NATIONAL WRITTEN EXAM

GOOD PRESHIFT EXAMINATIONS

ARE MORE THAN MERE COMPLIANCE!

KMI 2013 Pre-shift NATIONAL WRITTEN EXAM

1. _____ _____ shall be marked for identification. (30 CFR 75.904)
   A. Life Lines
   B. Circuit Breakers
   C. Refuge Alternative

2. All electrical connections or splices shall be mechanically and electrically efficient and _____ connectors shall be used. (30 CFR 75.514)
   A. proper
   B. appropriate
   C. suitable

3. The directional lifeline shall be equipped with one directional indicator cone securely attached to the lifeline, _____ the route of escape, placed at intervals not exceeding 100 feet. (30 CFR 75.380 (d) (7) (v)
   A. indicating
   B. signifying
   C. showing

4. The mine ventilation map _____ show the direction of air flow in all underground areas of the mine. (30 CFR 75.372 (b) (9)
   A. shall
   B. should
   C. will

5. Welding, cutting and soldering with an arc or flame are _____ within 150 feet of a seal. (30 CFR 75.337 (f)
   A. permitted
   B. forbidden
   C. prohibited

6. The daily _____ mine fan examination is not required on any day when no one, including certified persons, goes underground. However, the main mine fan examination shall be completed prior to anyone entering the mine (30 CFR 75.312 (a)
   A. primary
   B. major
   C. main

7. Each main mine fan shall be examined for proper operation by a _____ person designated by the operator once each day unless a fan monitoring system is used. (30 CFR 75.312 (a)
   A. trained
   B. certified
   C. qualified

8. All underground explosives magazines shall be located at least _____ feet from roadways and any source of electrical current. (30CFR 75.1312 (e) (1)
   A. 15
   B. 25
   C. 20

9. Telephones or equivalent two way communication facilities shall be located not more than 500 feet outby the last open crosscut and not more than _____ feet from the farthest point of penetration of the working places on a working section. (30 CFR 75.1600-2 (a)
   A. 800
   B. 1,000
   C. 500

10. Refuge alternatives shall be located within 1,000 feet from the _____ working face and from the locations where mechanized mining equipment is being installed or removed. (30 CFR 75.1506 (c) (1)
    A. farthest
    B. closest
    C. nearest

KMI 2013 PRE-SHIFT NATIONAL WRITTEN EXAM

CONTESTANT # _____ **SCORE** _____

NAME _____

1. (A) (B) (C)	10. (A) (B) (C)
2. (A) (B) (C)	
3. (A) (B) (C)	
4. (A) (B) (C)	
5. (A) (B) (C)	
6. (A) (B) (C)	
7. (A) (B) (C)	
8. (A) (B) (C)	
9. (A) (B) (C)	

WKMI 2013 PRE-SHIFT NATIONAL WRITTEN EXAM

CONTESTANT # _____ **SCORE** _____

NAME _____

1. (A) (C)	10. (A) (B)
2. (A) (B)	
3. (A) (C)	
4. (B) (C)	
5. (A) (B)	
6. (A) (B)	
7. (B) (C)	
8. (A) (C)	
9. (B) (C)	

KENTUCKY STATE WRITTEN EXAM

GOOD PRESHIFT EXAMINATIONS ARE MORE THAN MERE COMPLIANCE!

KMI 2013 Pre-shift KY STATE WRITTEN EXAM

1. A Kentucky mine superintendent shall hold a _____ certificate issued by the commissioner. (351-108)
   A. Kentucky Electrical
   B. Kentucky MET
   C. Kentucky Mine Foreman
   D. All Of The Above

2. After the mine fan is restarted following the completion of repairs or maintenance, it must be in operation for _____ to ensure air quality and the equalization of the mine atmosphere. 352.020 (8)
   A. at least one (1) hour
   B. a pre-determined time
   C. a sufficient period
   D. a half (1/2) a shift

3. Efficient equipment, either mobile or self propelled, equipped with sufficient first aid equipment and supplies shall be available _____ underground sections where men are present to transport injured workers to the surface. 352.150 (19)
   A. on all
   B. within 1000' of
   C. within 4 crosscuts of
   D. within 500' of

4. The ventilation of all underground coal mines shall be produced by means of mechanically operated fan located outside of the mine in fireproof housing and offset at least fifteen feet to one side or above the opening, protected by explosion doors or weak walls and arranged so that ventilating current may be _____ if necessary. 352.020 (2)
   A. stopped
   B. stalled
   C. reversed
   D. all of the above

5. Roof bolts that provide support by suspending the roof from overlying stronger strata shall be long enough to anchor at least _____ inches into the stronger strata. 805 Chapter 5 Section 4 (1)
   A. 30
   B. 24
   C. 18
   D. 12

6. All mines, or parts of mines, or sections thereof, shall be rock-dusted if conditions are found to be dusty or hazardous, after proper inspection. In the event such conditions are found to exist, then the commissioner or his authorized representative shall require the necessary _____ to make the mine, part of the mine, or section safe. 352.060 (1)
   A. rock-dusting
   B. examination
   C. ventilation
   D. wetting down

7. The roof and ribs of all active underground roadways, travelways, and working places shall be _____ or otherwise controlled adequately to protect persons from falls of the roof or ribs. 352.201 (1)
   A. examined
   B. flagged
   C. bolted
   D. supported

8. The method of mining followed in any mine shall not expose the miner to _____ _____ from roof falls caused by excessive widths of rooms and entries or faulty pillar recovery. 352.201 (2)
   A. unusual dangers
   B. unusual heights
   C. unusual conditions
   D. none of the above

9. Explosives and detonators stored near the working faces shall be in separate closed containers, and shall be in a location out of line of blast not less than _____ feet from the face. 352.241 (7)
   A. 100
   B. 500
   C. 250
   D. 50

10. _____ means all places in a mine that are ventilated and inspected regularly. KRS 352 definitions
   A. Active workings
   B. Working faces
   C. Working sections
   D. Working places

11. The chemical symbol for Carbon-Monoxide _____. Coal Mining Reference Book (Red Book) pg17 Mine Gases Chart
   A. CO
   B. SO_2
   C. CO_2
   D. O_2

12. When conventional roof-support materials are used as the only means of support. The width of any opening shall not exceed _____ feet. 805 Section 6 (1-A) Roof Control
   A. 20
   B. 18
   C. 19
   D. None of the above

13. The quantity of ventilating air in the mine workings where diesel machines are operated shall be measured _____ during each working shift and a record of each measurement shall be kept in a book provided for this purpose. 805 2 Section 3 (3) Diesel Equipment
    - **A. twice**
    - **B. once**
    - **C. every 2 hours**
    - **D. every 4 hours**

14. What are the two most dangerous gases encountered in mine fires? Coal Mining Reference Book (Red Book) pg 109 Mine Emergencies Q 28
    - **A. Carbon Monoxide & Methane**
    - **B. Carbon Dioxide & Methane**
    - **C. Carbon Monoxide & Low 02**
    - **D. Carbon Dioxide & Low 02**

15. All miners shall wear _____ as needed. 352.175
    - **A. reflective clothing**
    - **B. both A & C**
    - **C. safety glasses**
    - **D. none of the above**

16. For every 50 men and fraction thereof employed underground, the _____ of each mine shall keep on hand at the mine one (1) properly constructed stretcher, one (1) waterproof and one (1) woolen blanket, and all other necessary equipment required by the department. 352.190
    - **A. mine foreman**
    - **B. safety director**
    - **C. operator**
    - **D. mine superintendent**

17. All mines utilizing conveyor belts shall have one (1) or more persons to examine the conveyor belts while in operation in the mine to determine that _____ _____ is being transported on the conveyor belt in such a manner which would pose a threat to the health and safety of the employees or to the safety of the miners. 352.161

A. coal or gob
B. coal or mine refuse
C. mine refuse
D. rock or coal

18. What should be available to extinguish fires in underground electrical installations? Coal Mining Reference Book (Red Book) pg 163 Chapter 4 Question 2

A. Rock-dust
B. Suitable firefighting equipment
C. Clean dry sand
D. All of the above

19. What is the chemical symbol for Hydrogen? Coal Mining Reference Book (Red Book) pg 17 Mine Gases Chart

A. H_2S
B. CH_4
C. N_2
D. H_2

20. Roof bolts that provide support by creating a beam of laminated strata shall be at least _____ inches long. 805 Chapter 5 Section 4 (1) Roof Control

A. 30
B. 36
C. 42
D. 48

KMI 2013 KY STATE PRE-SHIFT WRITTEN EXAM

CONTESTANT # _____ **SCORE** _____
(5 POINTS EACH CORRECT MAX = 100)

NAME _____

1. (A) (B) (C) (D)	10. (A) (B) (C) (D)	19. (A) (B) (C) (D)
2. (A) (B) (C) (D)	11. (A) (B) (C) (D)	20. (A) (B) (C) (D)
3. (A) (B) (C) (D)	12. (A) (B) (C) (D)	
4. (A) (B) (C) (D)	13. (A) (B) (C) (D)	
5. (A) (B) (C) (D)	14. (A) (B) (C) (D)	
6. (A) (B) (C) (D)	15. (A) (B) (C) (D)	
7. (A) (B) (C) (D)	16. (A) (B) (C) (D)	
8. (A) (B) (C) (D)	17. (A) (B) (C) (D)	
9. (A) (B) (C) (D)	18. (A) (B) (C) (D)	

KMI 2013 KY STATE PRE-SHIFT WRITTEN EXAM

CONTESTANT # _____ **SCORE** _____
(5 POINTS EACH CORRECT MAX = 100)

NAME _____

1. (A) (B) (C) (D)	10. (A) (B) (C) (D)	19. (A) (B) (C) (D)
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