

OVERMOUNTAIN

MINE RESCUE MEET



PRESHIFT CONTEST



SOUTHWEST VIRGINIA HIGHER EDUCATION CENTER 1 PARTNERSHIP CIRCLE

2025
OVERMOUNTAIN
Preshift Contest

Contestant Statement

Welcome to the Easy Coal # 1 Mine.

I am _____ and this is _____.

The Easy Coal # 1 Mine mines coal with a continuous miner, shuttle cars, dual head roof bolting machine, and battery powered scoops. The mine operates two shifts per day, five days per week on the MMU 001-0. This mine has a history of poor roof and rib conditions along with accumulations of water, methane and low oxygen. The newly employed evening shift section foreman left a note stating that he was having trouble getting enough air in the LOCC.

You are to conduct a preshift examination of the 001-0 section for the upcoming shift.

The MMU 001-0 section consists of three entries.

The No. 1 Entry is the return (indicate to contestant).

The No. 2 Entry is the belt and intake (indicate to contestant).

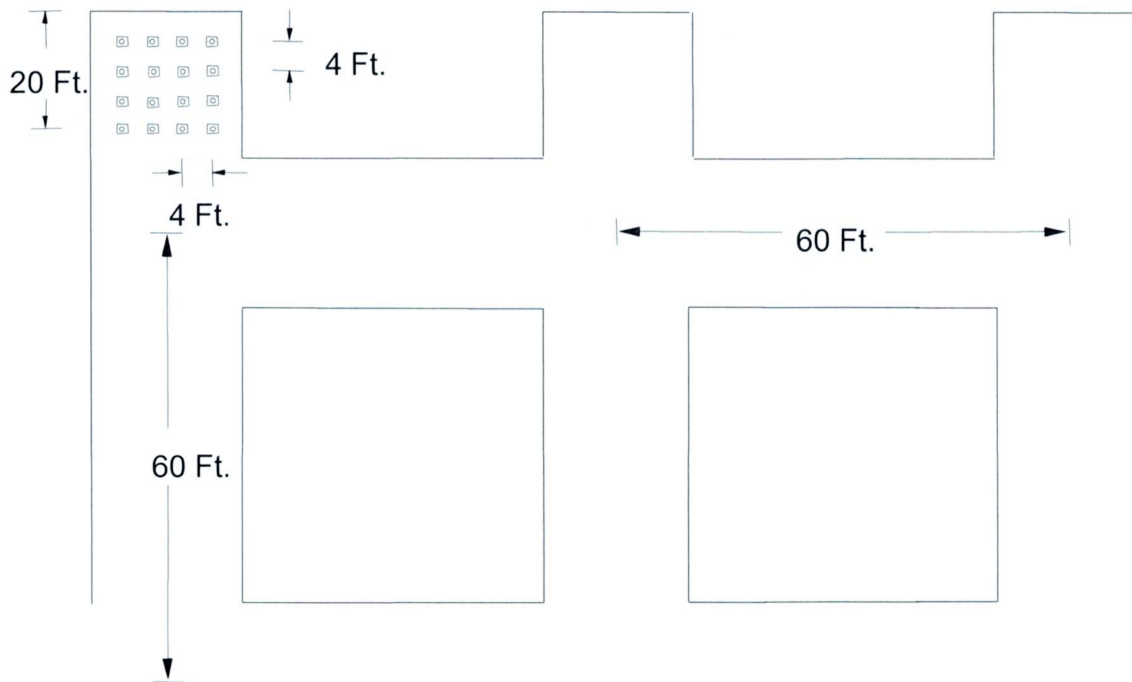
The No. 3 Entry is the return (indicate to contestant).

The mining height averages 6 feet. The main fan is blowing and operational. Underground power is energized.

A copy of the approved roof control plan, the approved ventilation plan and a blank mine map are all attached to this statement. If means are available the section is to be left in compliance with the approved plans and all hazardous conditions corrected. Note: No roof support is required to be installed by the examiner.

For the contest purposes, all violations of the Title 30 CFR will be considered hazards.

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ROOF CONTROL PLAN



Permanent roof supports to be installed on not more than 4 ft. centers.

Maximum cut depth is 20 ft. and bolt length is 60 inches.

Maximum width of rooms, entries and crosscuts is 20 ft.

Developed on 60 ft. centers with minimum size pillars being 40 ft. x 40 ft.

Supplemental support will be installed on 4 ft. centers.

The end of permanent roof support shall be posted with a readily visible warning, danger sign or a physical barrier shall be installed to impede travel beyond permanent support.

Test holes will be at least 12 inches deeper than primary support.

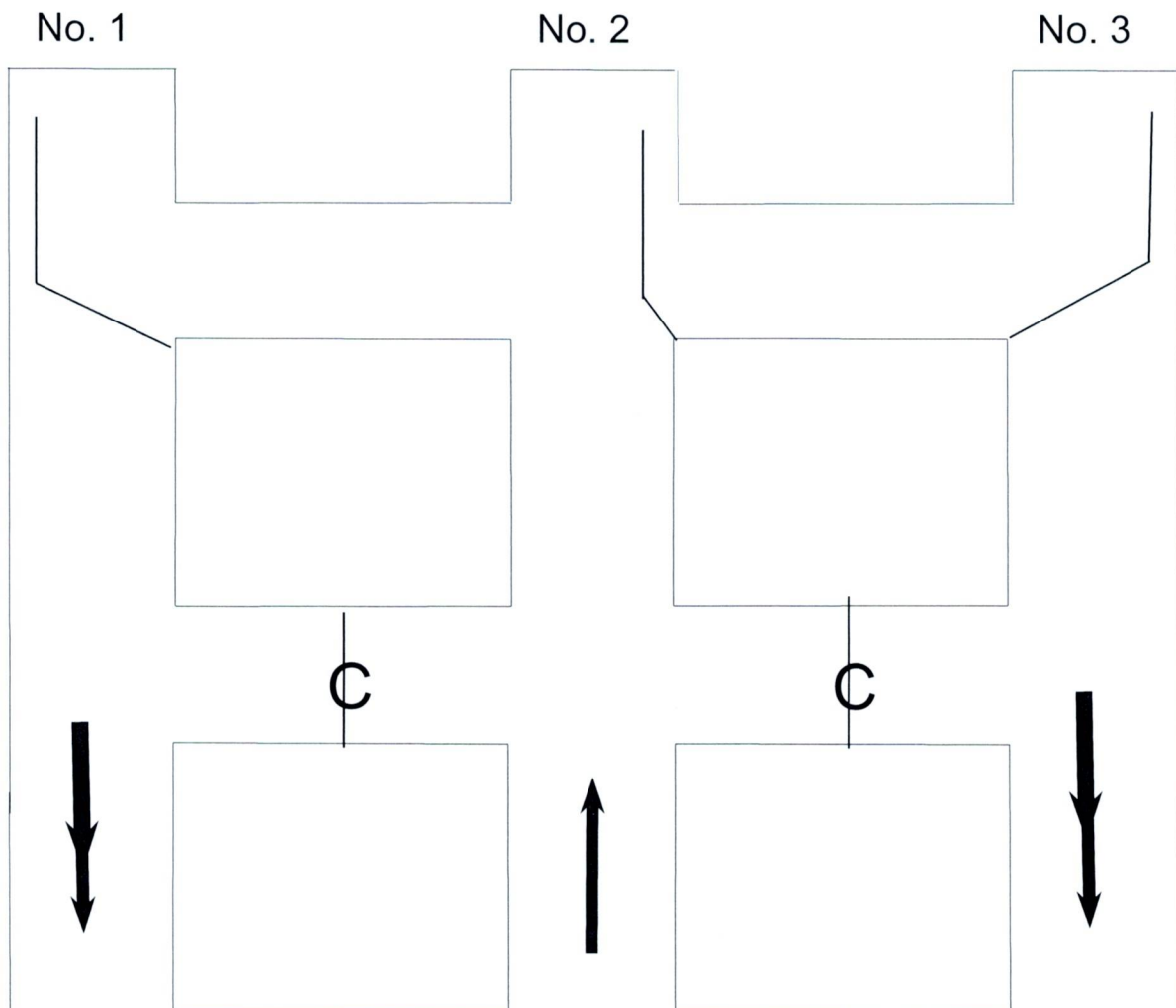
When slips are encountered they will be bolted with cable bolts and straps.

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VENTILATION PLAN



Line curtain required where the continuous miner is cutting or loading coal.
Line curtain required in face area where the roof bolting machine is located.
Line curtain required to be maintained 10 ft. from the deepest point of penetration.
A minimum of 9, 000 CFM required in the last open crosscut.
Maximum cut depth not to exceed 20 ft.
Belt/Intake air is allowed at this mine.
All face ventilation is exhausting.

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JUDGE'S MAP

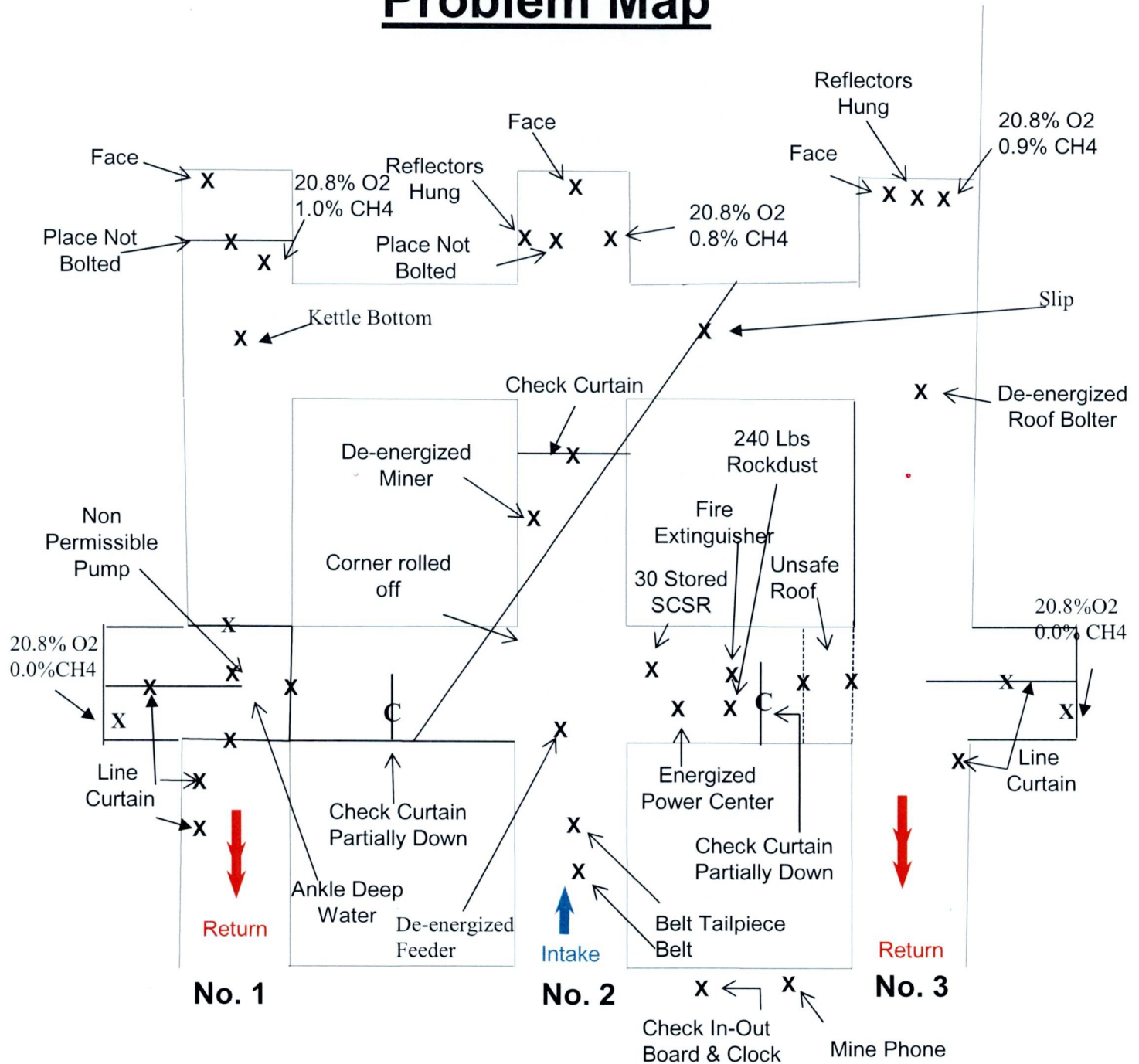
No. 1

No. 2

No. 3

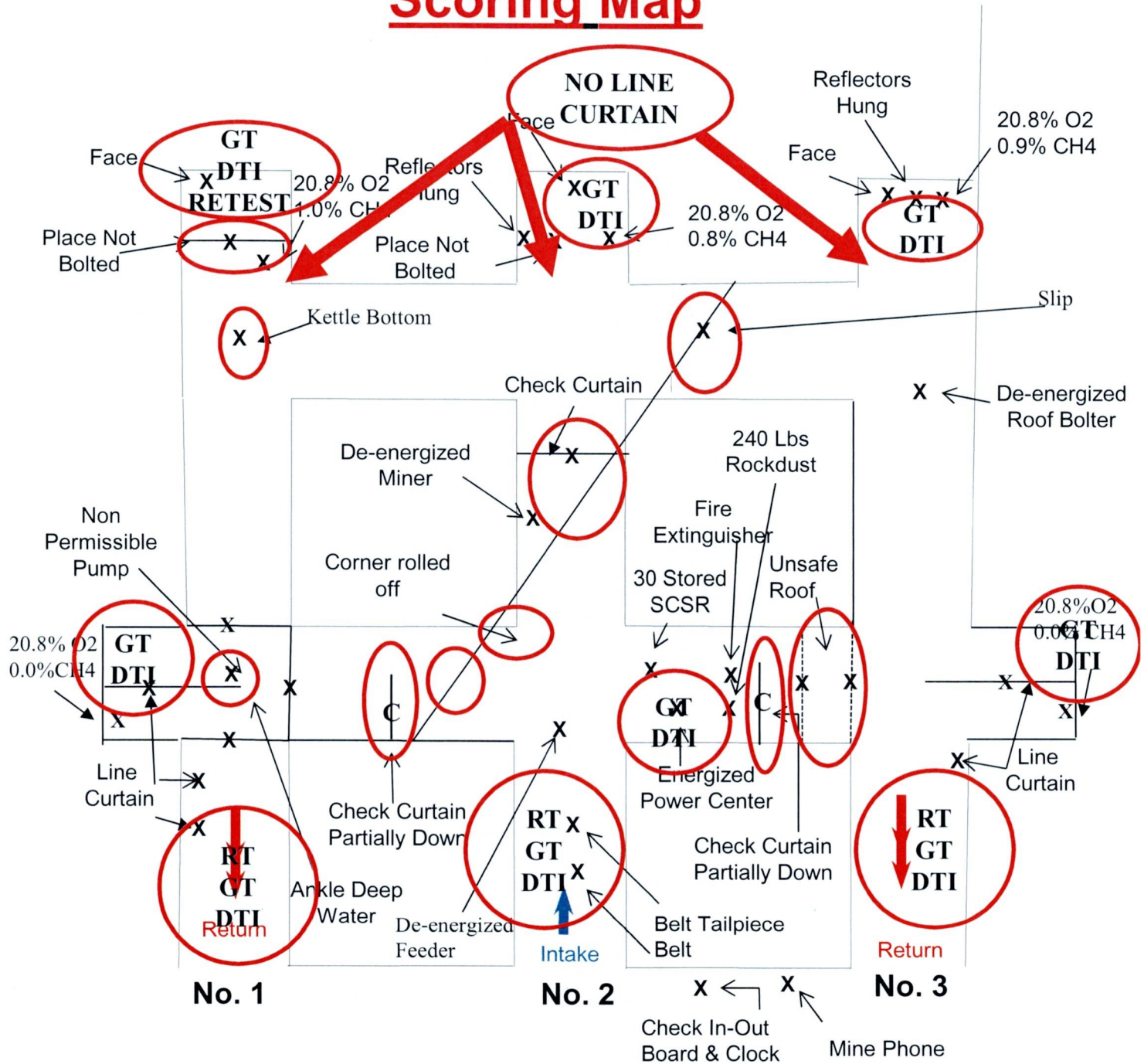
X – Check In/Out Board
& Clock

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Problem Map



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Scoring Map



**2025
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Preshift contest**

Judge's instructions Page 1

1. Show the contestant the time clock, mine phone, and the check in/out board.
2. A blank map, written statement (contestant statement), roof control and ventilation plans will be provided, **and these have already been reviewed by the contestant in lock-up**. Upon arrival at the field the contestant must start the clock within 2 minutes.
3. Contestant should take the air measurement in the last open crosscut right side between the # 2 and # 3 entries, and the last open crosscut left side between the # 1 and # 2 entries.

Provide information in box to the contestant after taking the air reading in the last open crosscuts (LOCC) between the # 1 and # 2 (Left), and the #2 and #3 entries (Right).

Left Side LOCC

Height: 66 INCHES
Width: 240 INCHES
Feet per minute: 95 correction factor: + 17
Do not give out total= 12320

Right Side LOCC

Height: 66 INCHES
Width: 240 INCHES
Feet per minute: 101 correction factor +17
Do not give out total = 12980

Note: If the contestant takes an air measurement in the wrong location, and the check curtains have been installed, the information above should be provided to them but discounts assessed for wrong location. (Rule9)

If the contestant takes air measurement with the ventilation controls partially installed (not according to the vent plan schematic) then the air reading will be 8,470 CFM for either or both side LOCC.

Height: 66 INCHES
Width: 240 INCHES
Feet per minute: 52 correction factor: + 25

Do not give out total CFM 8,470

Digital anemometers can be held in either direction.

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Judging Points

1. The contestant needs to hang the check curtain in x-cut between # 1 and # 2, #2 and #3 to get enough air for the LOCC reading.
2. The contestant needs to remove the check curtain in # 2 entry to have air for LOCC reading..
3. If ventilation controls are not installed as stated in the Ventilation plan then dock under (Rule 16. Contestant not following the written instructions for working the problem.)
4. If contestant reaches into or goes into "Unsafe Roof" in # 1 or # 2 entries then contestant has endangered self. (Rule 15.C)

Filling out the Preshift Record (If contestant fails to do Rule # 3, do not dock for Rule # 4)

Rule 3 Failure to record hazardous condition.

Rule 4 Failure to record action taken to correct hazardous condition.

Times

Written exam	15 minutes
Review plans in Staging area	15 minutes
On field start clock after arrival to field	2 minutes
Work problem on field	30 minutes (warn when 5 minute left)
Fill out record	20 minutes
After posting name time to appear	60 minutes
Review and prepare protests	20 minutes

2025 OVERMOUNTAIN PRE-SHIFT

Judges Discount Sheet

CONTESTANT

NO.

NAME

DISCOUNTS FROM OUTSIDE/FIREBOSS STATION	
DISCOUNTS FROM #1 & 1 RIGHT	
DISCOUNTS FROM #2 & 2 RIGHT	
DISCOUNTS FROM #3 ENTRY	
CONTESTANTS TOTAL FIELD DISCOUNTS	
CONTESTANTS FIELD TIME	:

JUDGE:

JUDGE:

REVIEWED BY

NAME:

NAME:

OUTSIDE	YES	NO	RULE #
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START CLOCK		-2	# 1
CHECK IN		-2	# 1
SCSR CHECK		-2	# 3
GAS DETECTOR(S) CHECK		-2	# 3
REQUIRED EQUIPMENT		-2 (ea.)	# 2
REQUIRED EQUIPMENT MAINTAINED		-2 (ea.)	# 13
CHECK OUT		-2	# 1
STOP THE CLOCK		-2	# 1
GENERAL RULES			
DID CONTESTANT RUN		-5	# 12
EXAM ALL ACCESSIBLE AREAS		-5	# 17
COMPLY WITH GENERAL RULES NOT COVERED IN DISCOUNT SHEET		-2	# 18
ENDANGER SELF(GOING INTO UNSUPPORTED TOP)		-20 (ea.)	#15C
TOTAL POINTS DISCOUNTED			

#1 ENTRY & 1 LEFT & RIGHT	YES	NO	RULE #
GAS TEST IN ENTRY		-5	# 5-A
MAKE PROPER GAS TEST		-2	# 6
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	# 10
FIND & IDENTIFY NONPERMISSIBLE PUMP		-10	# 11
REMOVE OR DANGER OFF NONPERMISSIBLE PUMP		-10	# 11
FIND & IDENTIFY CHECK CURTAIN DOWN		-10	#11
FIND & IDENTIFY SLIP IN 1 RIGHT		-10	#11
DANGER OFF SLIP IN 1 RIGHT		-10	#11
FIND & IDENTIFY CORNER ROLLED OFF IN 1 RIGHT		-10	#11
DANGER OFF CORNER ROLLED OFF IN 1 RIGTH		-10	# 11
TAKE GAS TEST AT LAST ROW OF BOLTS IN 1 LEFT		-5	#5-H
DTI AT LAST ROW OF BOLTS IN 1 LEFT		-2	#4
FIND & IDENTIFY CUT TOO DEEP PER ROOF CONTROL PLAN		-10	# 11
DANGER OFF CUT TOO DEEP PER ROOF CONTROL PLAN		-10	# 11
TAKE GAS TEST AT LAST ROW OF BOLTS		-5	# 5-H
DTI AT LAST ROW OF BOLTS		-2	#4
FIND AND IDENTIFY KETTLE BOTTOM		-10	#11
DANGER OFF KETTLE BOTTOM		-10	#11
TAKE AIR READING (DETERMINE SECTION VENTILATION)		-10	#7
IMPROPER PROCEDURE WHEN TAKING AN AIR MEASUREMENT		-2	#8
TAKE AIR READING IN WRONG LOCATION		-5	#9
FIND & IDENTIFY NO REFLECTORS IN 1 & 1LEFT		-10	#11
DANGER OFF NO REFLECTORS IN 1 & 1 LEFT		-10	#11
FIND & IDENTIFY NO LINE CURTAIN		-10	#11
HANG LINE CURTAIN		-10	#11
FIND & IDENTIFY 1.0% CH4		-10	#11
GAS RETEST		-5	#5-I

TOTAL POINTS DISCOUNTED			
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# 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		-5	# 5-A
MAKE PROPER GAS TEST		-2 ea	# 6
FIND AND IDENTIFY CHECK CURTAIN DOWN		- 10	# 11
FIND & IDENTIFY UNSAFE ROOF		-10	# 11
DANGER OFF UNSAFE ROOF BOTH SIDES		-10	# 11
FIND & IDENTIFY SLIP		-10	# 11
DANGER OFF SLIP		-10	# 11
FIND & IDENTIFY CHECK CURTAIN UP		-10	# 11
REMOVE CHECK CURTAIN		-10	# 11
DTI AT POWER CENTER		-2	#4
MAKE GAS TEST AT POWER CENTER		-5	#5-F
FIND & IDENTIFY SLIP IN 2 RIGHT		-10	# 11
DANGER OFF SLIP		-10	#11
FIND & IDENTIFY NO LINE CURTAIN		-10	#11
HANG LINE CURTAIN		-10	#11
TAKE AIR READING (DETERMINE SECTION VENTILATION)		-10	#7
TAKE AIR READING IN WRONG LOCATION		-5	#9
IMPROPER PROCEDURE WHEN TAKING AN AIR MEASUREMENT		-2	# 8
MAKE GAS TEST AT LAST ROW OF BOLTS		-5	# 5-H
DTI AT LAST ROW OF BOLTS		-2	# 4

TOTAL POINTS DISCOUNTED			

#3 ENTRY & 3 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		-5	# 5-A
MAKE PROPER GAS TEST		-2 ea	# 6
FIND & IDENTIFY NO REFLECTORS		-10	# 11
DANGER OFF NO REFLECTORS		-10	#11
GAS TEST AT FACE		-5	# 5-H
MAKE PROPER GAS TEST AT FACE		-2 ea	# 6
DTI AT THE FACE		-2	# 4
TOTAL POINTS DISCOUNTED			

PRESHIFT-CERTIFIED EXAMINER'S REPORT

Date of Examination: _____

Time From: _____ AM PM To: _____ AM PM

Section/Area: _____

Reported Outside? Yes _____ No _____ Time: _____ AM PM

Reported By: _____

Received By: _____ (INITIAL)

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

Location	Hazardous Condition	Action Taken	CH ₄	O ₂
1 st xcut between No. 1 and No. 2 entry	Check curtain down	Hung check curtain		
No.1 Entry outby LOCC	Non permissible pump	Dangered Off or Removed		
No.1 Entry 1Left	No Flagging	Dangered Off	0.0%	20.8%
No.1 Entry face area	Deep Cut	Dangered Off		
No.1 Entry face area	No Flagging	Dangered Off		
No. 1 Entry Locc	Kettle Bottom	Dangered Off		
No. 1 Entry face area	No line curtain	Hung line curtain	1.0%	20.8%
No. 1 Entry face area	1.0% Ch4	Hung Curtain CH4 0.0%	0.0%	20.8%
1 st xcut between No. 2 and No. 3 entry	Check curtain down	Hung check curtain		
1 st xcut between No.1 and No. 2 entry	Slip and corner rolled off	Dangered Off		
No. 2 Entry	Slip	Dangered Off		
No. 2 Entry	Check curtain hung	Removed curtain		
No. 2 Entry face area	No line curtain	Hung line curtain	0.8%	20.8%
1 st xcut between No.2 and No.3 entry	Unsafe Roof	Dangered Off both sides		
2 nd xcut between No. 2 and No. 3 entry	Slip	Dangered Off		
No. 3 Entry face area	No line curtain installed	Hung line curtain	0.9%	20.8%
Power Center			0.0%	20.9%
No.3 Entry outby LOCC	No Flagging	Dangered Off	0.0%	20.8%
* Roadways * Travelways * Track Haulageways/Entries * Working Section * Areas Equipment Installed or Removed * Approaches to Worked out Areas * Intake Seals * +20Ft. Entries on Intake * Unattended Diesel * Intake High Spots * Electrical Installations/Trolley Wires* * Other Work/Travel Areas				

Air Measurements

Location	CFM	Location	CFM
Left LOCC	12320	Right LOCC	12980

Remarks: _____

Signed by Pre Certified Examiner _____

Date _____

Certification Number _____

Countersigned by Mine Foreman _____

Date _____

Certification Number _____