

CRAIG, COLO. – PRE-SHIFT CONTEST – 2017

CONTESTANT: _____ WORKING No.: _____

JUDGES INSTRUCTIONS

1. Show contestant time clock and check in/out board and the extent of problem working area. 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 (additional index cards will be in packet), pen/pencil, paper, clip board, anemometer, watch, roof testing device, and detector.
3. Contestant will be taken to staging area and given the blank mine map, statement, and ventilation and roof control plans. Contestant has **10 minutes** to review these and make any notes. The mine map, statement, notes if any and mine plans will be collected by contest judge. **THE Mine Map, Statement, Notes if any, and Mine Plans will be returned to the Contestant when they arrive at field to start the Problem.**
4. Contestant has **2 minutes** after arriving at field to set out equipment.
5. Contestants have **30 minutes** after starting clock to complete the problem. Judges will notify contestant when **1 minute** is left.
6. Don't take contestant back on field after clock is stopped & **don't discuss discounts.**

JUDGING INFORMATION

OUTSIDE

CHECK IF DONE

START CLOCK....Rule #1.....	_____
CHECK IN.....Rule #1.....	_____
CHECK SCSR.....Rule #3.....	_____
(Following items as per Rule #2)	
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 (Not required).....	_____
BLANK INDEX CARDS.....	_____
PEN/PENCIL/MARKER.....	_____
PAPER (Not required).....	_____
CLIPBOARD(Not required)	_____

JUDGING INFORMATION

GAS TESTS & DTI's (Rule 4, 5 and 6)

	TEST MADE	TEST	DTI
No. 1 Entry (anywhere in entry).....	_____	_____	
No. 2 Entry (anywhere in entry).....	_____	_____	
No. 3 Entry (anywhere in entry).....	_____	_____	
No. 2 Power Center.....	_____	_____	

ROOF TESTS (verbally state visual exam in each entry) **Rule 10** TEST MADE

No. 1 Entry	_____
No. 2 Entry.....	_____
No. 3 Entry.....	_____

HAZARDOUS CONDITIONS (verbally identify)

IDENTIFIED

No. 1 Entry

(75.380)	Diesel truck parked under Life line (can move truck).....	_____
(75.1100)	5 lb. extinguisher needs to be a 10 lb. or 2 - 5 lb.(DTI and report)...	_____
(75.1900)	Un-attended Diesel scoop idling (turn off scoop).....	_____
(75.370)	Curtain too far from face (extend curtain).....	_____
(75.370)	No air flow to face (install curtain).....	_____
(75.370)	Check curtain needs to be stopping x-cut #2 (can turn off belt.....	_____

No. 2 Entry

(75.370)	Vent too far from face (extend curtain).....	_____
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No. 3 Entry

(75.380)	No branch line to SCSR's (DTI and report).....	_____
(75.1714)	Not enough SCSR's for people on section (DTI and report).....	_____
(75.1714)	SCSR's not stored properly in container (DTI and report)	_____

AIR READING (taken for one minute in last open cross-cut, provide individual with 280 FPM of air flow and an area of 7.5 feet by 18 feet this is the only information to provide.

NOTES:

1. Must take air readings for **60 seconds**. Rule 8
2. Not taking proper air reading. Rule 9.
3. Contestant may use either anemometer held in proper direction of air flow.
4. If placard not present at required gas test location, O2 = 20.9%, CH4 = 0.0%.
5. Acts of endangerment, i.e. crossing moving belt. Rule 16
6. Acts that could result in explosion, explosive methane over ignition source. Rule 15
7. Not identifying hazard. Rule 11
8. Not correcting hazard. Rule 12

Contestant can correct following hazards;

1. Truck under life line.
2. Turn off diesel scoop.
3. Extend curtain in #1 face.
4. Install curtain to get air flow to #1 face.
5. Extend curtain in #2 face.
6. Turn off belt for missing stopping.

Date of Examination ?????? Time From: _____ AM/PM To: _____ AM/PM

Section/Area 001 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	CH ₄	Action Taken
#1 Entry	Truck under life line		Truck moved
Entry #1, face	No air flow	0.0%	Installed curtain
Entry #1, face	Curtain too far back	0.0%	Extended curtain
Entry #1 to #2, XC #2	Stopping not built		Turned off belt
Entry #1 power center	Too small fire extinguisher	0.0%	dangered
Entry #1 x-cut 3	Diesel sooop idling		Turned off scoop
Entry #2, face	Curtain too far back	0.0%	Extended curtain
Entry #3	No branch line to SCSR's		Dangered
Entry #3	Not enough SCSR's		Dangered
Entry #3	SCSR's store in-correctly		Dangered
Power Center	Gas reading may be part of other entry above	0.0%	
**Entry #3 face	**Gas reading may be part of other entry above	0.0%	
**Entry #2 face	**Gas reading may be part of other entry above	0.0%	
**Entry #1 face	**Gas reading may be part of other entry above	0.0%	

Air Measurements

Location	CFM	Location	CFM
LOX	37,800		

Velocities

Longwall Headgate: _____ Longwall Tailgate: _____

CH₄: _____ O₂: _____

Remarks:

Signed by Preshift Certified Examiner Date Certification Number

Countersigned by Mine Foreman Date Certification Number

,Countersigned by Operator/ Agent Date Certification Number

VENTILATION PLAN

1. Ventilation devices shall be maintained to within 5 feet of the face and to the last row of supports for mined faces.
2. Permanent ventilation (stoppings) shall be maintained up to and including the third connecting crosscut between the belt and the return. Permanent ventilation (stoppings) shall be installed between the belt and the intake prior to operation of the belt.
3. When an auxiliary fan is operating and the ventilation tubing is routed through the crosscut immediately outby the last open crosscut, compliance with the last open crosscut ventilating requirement will be met if the sum of the air quantities in the vent tube and last two open crosscuts exceeds the quantity specified below.
4. Ambient Carbon Monoxide is 5 PPM.
5. AMS sensor on 1000 foot spacing.
6. Air Quantities Required

Working Face	12,000 CFM
Idle Face	3,000 CFM
Bolting Face	5,000 CFM
Last Open Crosscut	20,000 CFM

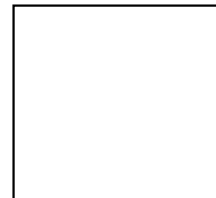
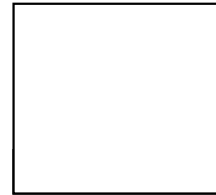
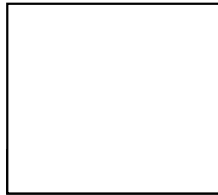
Roof Control Plan

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 40 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 un-supported faces shall immediately begin.
5. Travel in or inby un-supported openings to an intersection shall be restricted; except for conducting required examinations and necessary ventilation changes.

CONTESTANT STATEMENT

You have been assigned to do a pre-shift examination of the 001 section. This includes all entries #1 through #3 inby the Mains. Entries average 18 to 20-feet wide and 8 to 10-feet high. The mine has a history of methane and water. Energizing / de-energizing equipment is handled through switches. All actions must be verbalized to the Judges. Gas readings and air readings will be handled through the Judges.

Contestant Map



Name _____ # _____

Preshift Written Exam

1. Escapeways shall be clearly _____ to show the route and direction of travel to the surface. (30 CFR 75.380(d)(2))
a) **identified** b) **marked** c) **posted**
2. Self-contained self-rescuers are used to protect the wearer from the _____ of irrespirable atmosphere.
a) **effects** b) **hazards** c) **dangers**
3. Ventilation is _____ to dilute, render harmless, and carry away flammable, explosive, noxious, and harmful gases, dusts, smoke, and fumes. (30 CFR 75.325, 330(b)(1))
a) **required** b) **necessary** c) **utilized**
4. High spots where methane is likely to accumulate, over haulageways where equipment will travel must be _____ during the preshift examination. (30 CFR 75.360)
a) **checked** b) **examined** c) **tested**
5. Tests for oxygen deficiency shall be made by a qualified person with MSHA approved oxygen detectors maintained in permissible and proper operating condition. (30 CFR 75.360)
a) **certified** b) **qualified** c) **trained**
6. A preshift examiner must be certified or _____ in the State in which the coal mine is located. (Mine Act 1977, Sect. 318(a))
a) **employed** b) **qualified** c) **registered**
7. Conveyor belts used to transport persons during the oncoming shift must be _____ during the preshift examination. (30 CFR 75.360)
a) **examined** b) **traveled** c) **walked**
8. _____ detectors should be calibrated with a known methane-air mixture at least once every 31 days. (30 CFR 75.320(a))
a) **Methane** b) **Oxygen** c) **Multi-gas**
9. A visual examination of the roof, face and ribs shall be made immediately before any _____ is started in an area and thereafter as conditions warrant. (30 CFR 75.211(a))
a) **work** b) **mining** c) **support**
10. The upper explosive _____ for methane is 15 volume percent. (MSHA 2102, p. 31)
a) **limit** b) **range** c) **level**

Name _____ # _____

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Placard list for contest per field:

Power Center

Phone

Parked Haul Truck

Pallet of Rock Dust 32 bags

Primary Escapeway

500' fire hose

Alternate Escapeway

belt remote switch



(Times 3)

Belt

Tail Piece

Continuous miner No Power

Last Row of supports 5'

2 Roof Bolters bolting 2nd to last row

Check curtain (Times 4)

5 lb. fire extinguisher

SCSR (Times 5)

Pallet

Un-attended Diesel scoop idling

CO sensor

Stopping (times 3)

Belt Running (times 2)

Walkway side Belt (times 2)

6 Miners Eating

Life Line (times 2)

Bolted to
face with
warning sign

Permanent Stopping

Continuous
Miner No
Power

2 Roof Bolters
Bolting 2nd to
last row

Last row of
supports with
warning sign

Face

Section Tail Piece

Power Center



Place on back of placard # 11

Un-attended
Diesel Scoop
Idling

Pallet of Rock

Dust 32 Bags

Walkway
Side of Belt

Fire Outlet

AMS Sensor

Check Curtain

Belt Running

5 lb. Fire
Extinguisher

5 SCSR's on
Wooden
Pallet

Belt Remote Switch

6 Miners
Eating

Parked Haul
Truck

Phone

Life Line

Intake #1

Return #3

Belt Line #2

Alternate Escapeway

Primary Escapeway

500' Fire
Hose

Permanent
Stopping

