

# **2017 Indiana State**



## **Preshift Contest**

## **Note from Leroy Loveless, Mine Foreman**

Hey Buddy, Hope you enjoyed your vacation!! A lot has happened since you been gone. We stopped mining in the 2<sup>nd</sup> North Panel. We moved the No. 1 Unit to the 3<sup>rd</sup> North Submain. To make it a shorter move we cut into the 3<sup>rd</sup> North Submain from the 2<sup>nd</sup> North Panel and brought the equipment through the cut through. We set up the unit with the feeder at cross cut 8 and the last open cross cut is at cross cut 9. We build 120 psi seals across the 1<sup>st</sup> West Main and in the cut through we made. I was here yesterday and we got the seals completed. I sent Bubba and his crew to the No. 1 Unit last night to finish everything up and start running coal after everything is done. He said he would get it right but you know how he is!!

Our typical mine layout is the same. We run 3 entries in the submains and panels. No. 1 entry is our intake/primary escapeway, No. 2 entry is our belt/secondary escapeway and no. 3 entry is our return (numbering from left to right).

I need you to go preshift the No. 1 Unit from cross cut 6 of the 3<sup>rd</sup> North Submains inby to the faces in all 3 entries. John and Bob will take care of the rest of the mine and Jimmy Joe will be outside if you need anything.

I made you a packet with some information you may need. Enclosed is our plans, a copy of the mine map and some other stuff.

Good Luck and Glad to have you back!!!

**Hoosier Coal Company**  
**Mine #1**  
**Mine Plans**

**Roof Control Plan**

1. The maximum cut depth of this mine is 30 feet.
2. Openings that create an intersection should be permanently supported or at least two rows of temporary supports should be installed on not more than 5 foot centers across the opening before any other work or travel in the intersection, except to conduct examinations or make safety corrections.
3. Sub-mains and panels will be driven on 50' x 50' centers minimum.
4. The maximum entry and crosscut width is 18' in sub-mains and 19' in panels.

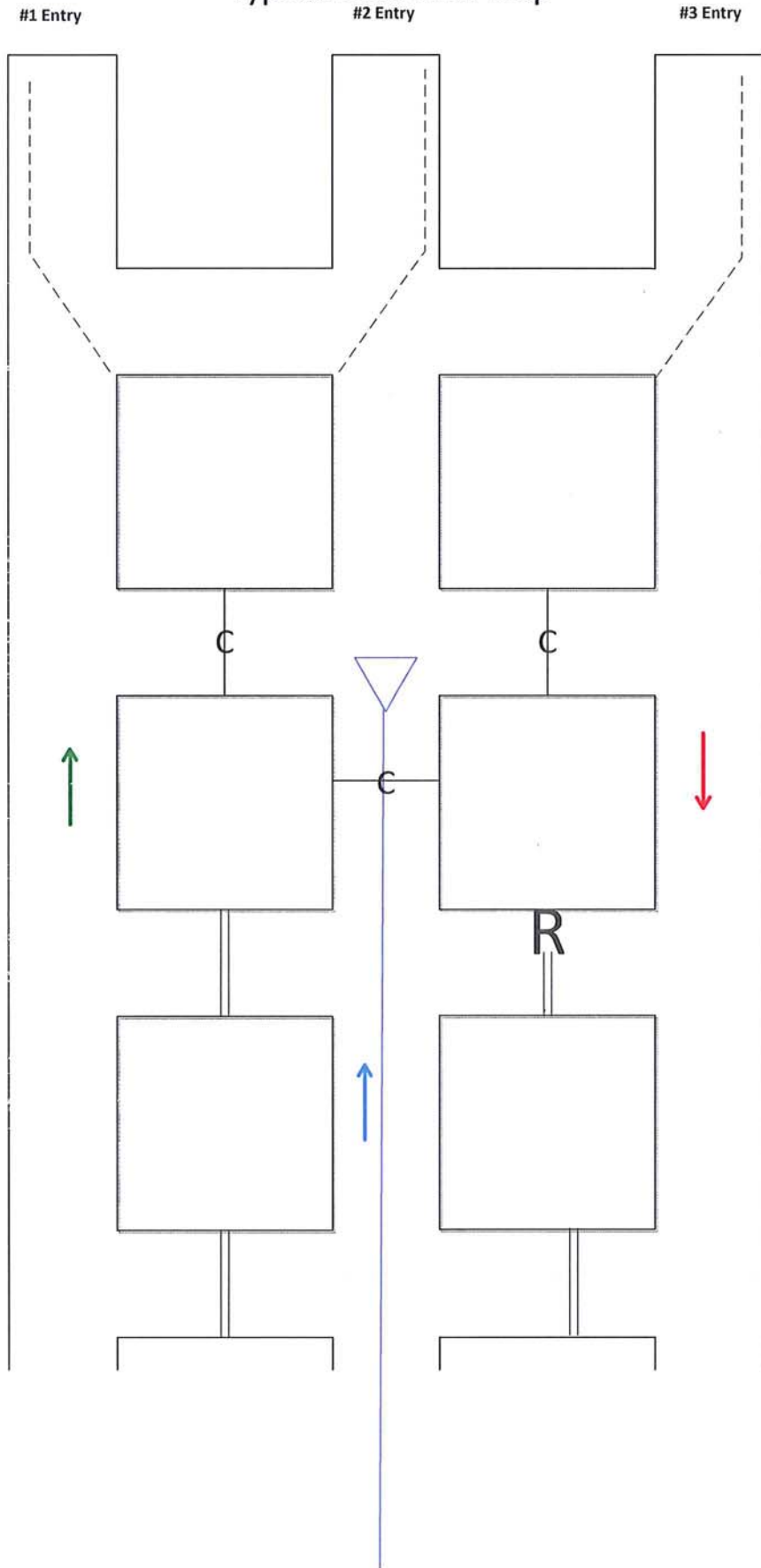
**Ventilation Plan**

1. At least 6,500 cfm will be maintained at the inby end of the line curtain where coal is being cut, mined, drilled for blasting, or loaded.
2. A line curtain shall be maintained to within 10' of the face in idle supported places and to the last row of permanent support in unbolted places.
3. The minimum volume of air in the last open crosscut shall be 15,000 cfm.
4. Ventilation controls will be installed as shown on attached vent map.
5. If flush cross cut is mined head-on no ventilation curtain is required.

**Seal Plan**

1. 1<sup>st</sup> West Seals will be constructed using 120 psi seals.
2. A line curtain will be installed at each seal providing enough air flow to comply with 75.321(a)(1) sufficient to dilute, render harmless, and carry away flammable, explosive, noxious, and harmful gases, dusts, smoke, and fumes.

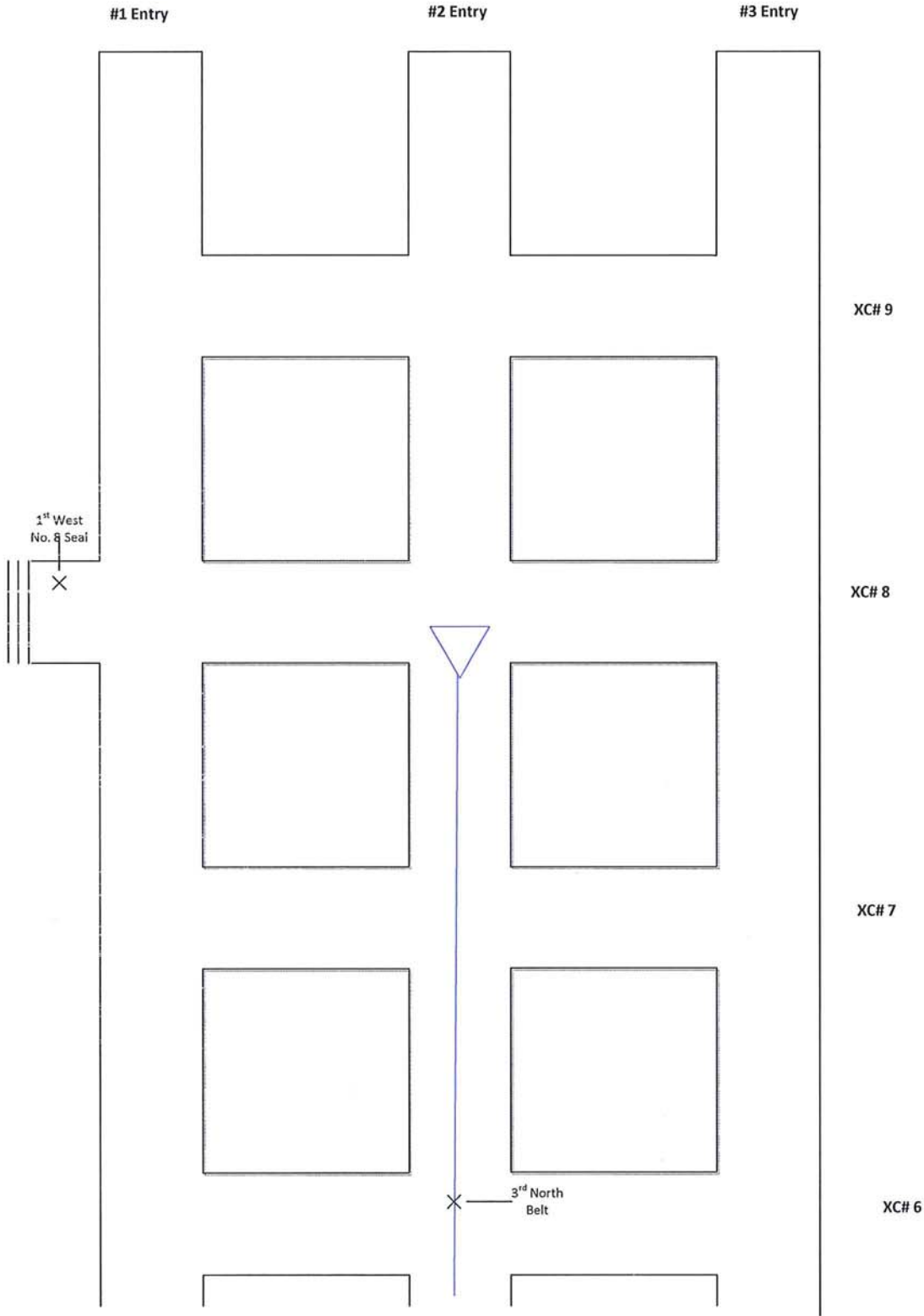
Mine No. 1  
NO. 1 Unit  
Typical Unit Vent Map



## Summary of Safeguards

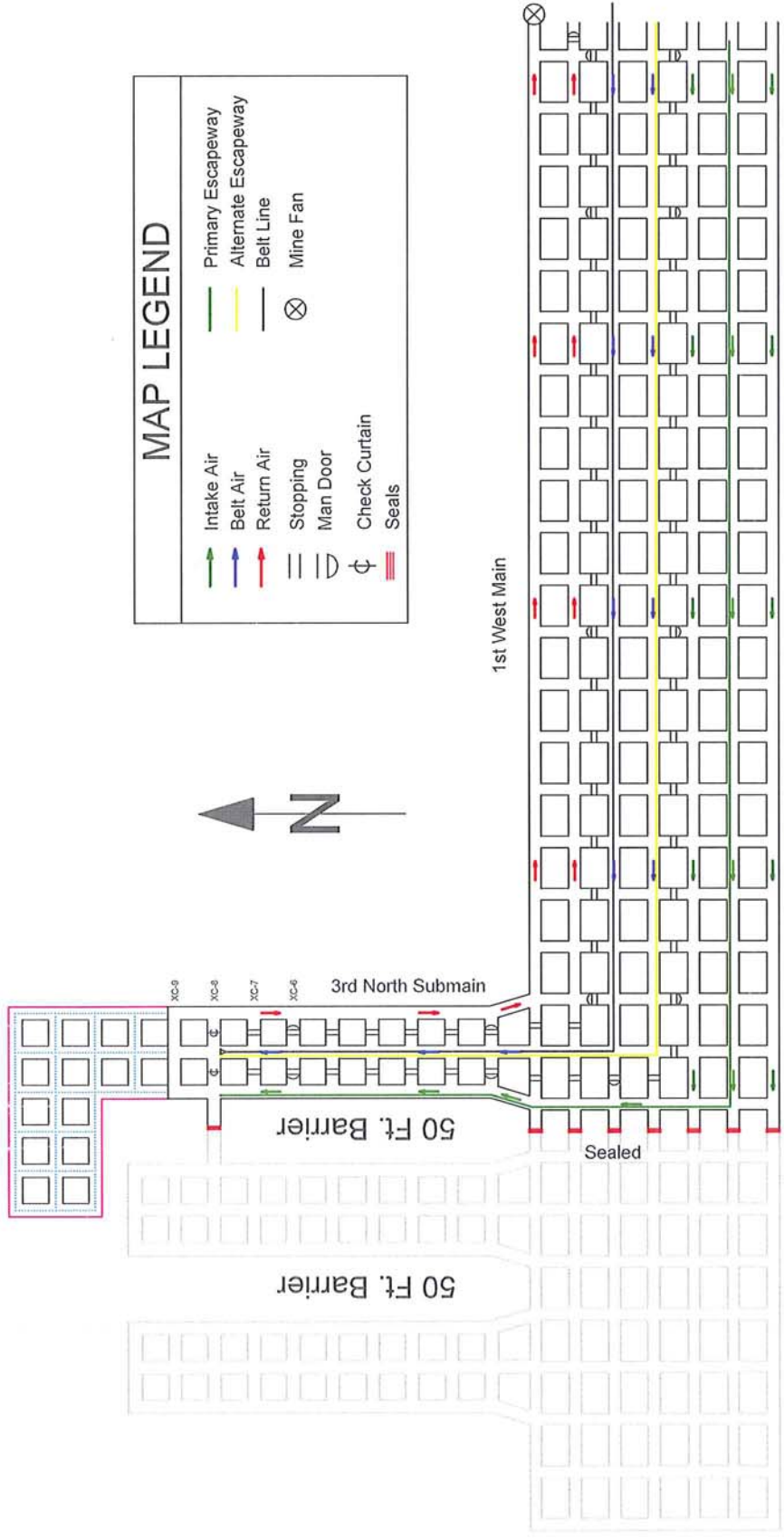
Section	Number	Description
75.1403	001	Notice of safeguard requiring all scoops at this mine to be provided with a remote means to energize and de-energize the main breaker without persons entering the articulation area of the scoop.
75.1403	002	Notice of safeguard if mobile equipment is parked within 20 feet of a check curtain flagging or other physical barrier must be provided on the backside to warn persons that maybe traveling through the check curtain.
75.1403	003	Notice of safeguard to maintain all travelways and haulageways free of extraneous materials to facilitate safe travel of men and materials.
75.1403	004	Notice of safeguard that water shall not be allowed to accumulate in escapeways, travelways and haulageways above 12 inches in depth.

2017 Indiana State  
Preshift Contest Blank Map



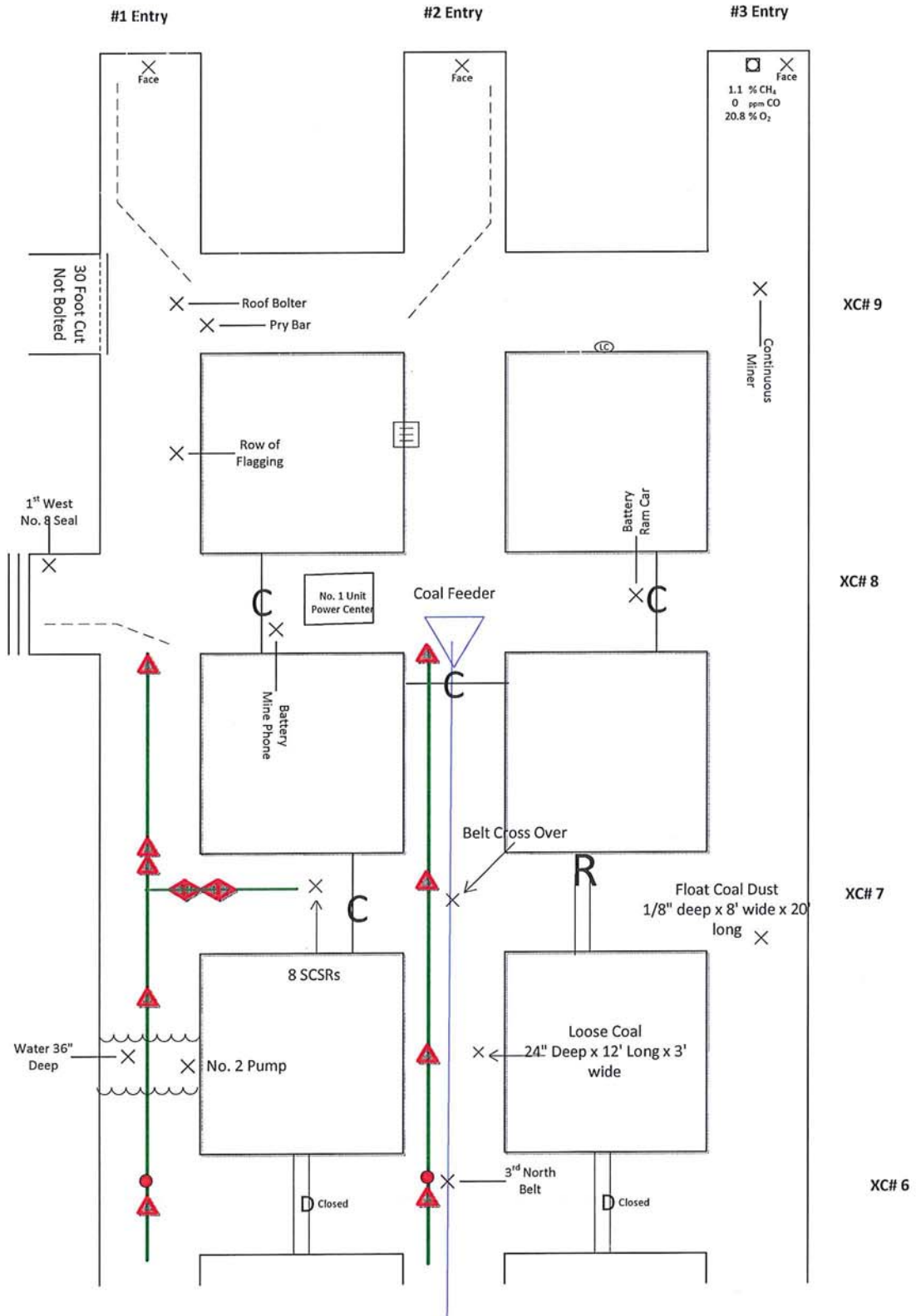


# Hoosier Coal Company - Mine No. 1



MAP LEGEND	
<span style="color: green;">→</span>	Intake Air
<span style="color: blue;">→</span>	Belt Air
<span style="color: red;">→</span>	Return Air
<span style="color: yellow;">→</span>	Primary Escapeway
<span style="color: orange;">→</span>	Alternate Escapeway
<span style="border: 1px solid black; padding: 2px;"> </span>	Belt Line
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;"> </span>	Mine Fan
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">•</span>	Man Door
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">×</span>	Check Curtain
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">×</span>	Seals

# 2017 Indiana State Preshift Contest Map





## 2017 Indiana State Preshift Contest Keys to the Problem

Location	Hazard	Corrective Action	Notes
No. 1 Entry x-cut 6-7	Water 36" deep in Primary Escapeway	Energize No. 2 pump removing water	Safeguard No. 004
No. 1-2 Entries x-cut 7	Check Curtain Between belt and Primary Escapeway	Danger Card	75.380(g)
No. 1 Entry x-cut 9	Unbolted cut not flagged	Hang flagging	Roof Control Plan
No. 1 Left x-cut 9	30' cut into 50' barrier	Danger Card	75.388(a)(1)
No. 2 Entry x-cut 6-7	Loose coal along belt	Danger Card	75.400
No. 2 Entry x-cut 8-9	Unsafe rib	Pry down	75.202(a)
No. 3 Entry x-cut 7	Floater coal dust	Danger Card	75.400
No. 3 Entry x-cut 8	Ram car parked behind curtain	Hang flagging	Safeguard No. 002
No. 3 Entry Inby LOCC	Line curtain missing 1.1% CH4 in face	Hang line curtain and retest	Ventilation Plan

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

CONTESTANT \_\_\_\_\_ NO. \_\_\_\_\_ \*DENOTES DISCOUNT

WORKING TIME \_\_\_\_\_ Judges Name \_\_\_\_\_

## **REQUIRED EQUIPMENT TWO POINT DISCOUNT FOR EACH OMITTED ITEM RULE 2 MARK AN **X** IF AVAILABLE**

SAFETY CAP _____	SAFETY BOOT _____
MINING BELT WITH ID TAG _____	CHECK IN TAG _____
CAP LIGHT _____	SCSR _____
ANEMOMETER _____	WATCH (OR EQUIVALENT) _____
GAS DETECTOR _____	DEVICE FOR TESTING ROOF _____
MEASURING DEVICE _____	BLANK INDEX CARDS _____

## **FIREBOSS STATION**

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT START CLOCK WITHIN 2 MIN.	_____	_____*	7
2. DID CONTESTANT CHECK IN	_____	_____*	1
3. DID CONTESTANT CHECK SCSR	_____	_____*	3
4. DID CONTESTANT CHECK METHANE/OXYGEN DETECTOR	_____	_____*	19
5. DID CONTESTANT CHECK OUT	_____	_____*	1
6. DID CONTESTANT HAVE ALL REQUIRED EQUIPMENT	_____	_____*	2
7. WAS CONTESTANT EQUIPMENT MAINTAINED IN OPERABLE CONDITION	_____	_____*	14

## **#2 HEADING**

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT DTI ALONG 3 <sup>RD</sup> NORTH BELT	_____	_____*	4
2. DID CONTESTANT TAKE GAS TEST AT 3 <sup>RD</sup> NORTH BELT	_____	_____*	5
3. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
4. DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB	_____	_____*	10
5. DID CONTESTANT IDENTIFY LOOSE COAL	_____	_____*	11
6. DID CONTESTANT DANGER OFF LOOSE COAL	_____	_____*	12
7. DID CONTESTANT DTI DANGER SIGN	_____	_____*	4
8. DID CONTESTANT IDENTIFY UNSAFE RIB	_____	_____*	11
9. DID CONTESTANT PULL UNSAFE RIB	_____	_____*	12
10. DID CONTESTANT DTI AT #2 FACE	_____	_____*	4
11. DID CONTESTANT TAKE GAS TEST AT #2 FACE	_____	_____*	5
12. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6

### #1 HEADING

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT TAKE GAS TEST IN #1 HEADING	_____	_____*	5
2. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
3. DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB	_____	_____*	10
4. DID CONTESTANT IDENTIFY WATER 36" DEEP	_____	_____*	11
5. DID CONTESTANT PUMP WATER DOWN	_____	_____*	12
6. DID CONTESTANT WALK THROUGH WATER BEFORE PUMPING	_____*	_____	16
7. DID CONTESTANT IDENTIFY CHECK BETWEEN 1-2 XCUT 7	_____	_____*	11
8. DID CONTESTANT DANGER CHECK BETWEEN 1-2 XCUT 7	_____	_____*	12
9. DID CONTESTANT DTI DANGER SIGN	_____	_____*	4
10. DID CONTESTANT IDENTIFY UNBOLTED CUT NOT FLAGGED	_____	_____*	11
11. DID CONTESTANT FLAG UNBOLTED CUT	_____	_____*	12
12. DID CONTESTANT IDENTIFY 30' CUT INTO BARRIER	_____	_____*	11
13. DID CONTESTANT DANGER 30' CUT INTO BARRIER	_____	_____*	12
14. DID CONTESTANT DTI DANGER SIGN	_____	_____*	4
15. DID CONTESTANT DTI AT #1 FACE	_____	_____*	4
16. DID CONTESTANT TAKE A GAS TEST AT #1 HEADING	_____	_____*	5
17. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6

### #1 UNIT POWER CENTER

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT DTI POWER CENTER	_____	_____*	4
2. DID CONTESTANT TAKE GAS TEST AT POWER CENTER	_____	_____*	5
3. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6

### #3 HEADING

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT DTI IN #3 HEADING	_____	_____*	4
2. DID CONTESTANT TAKE GAS TEST AT #3 HEADING	_____	_____*	5
3. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
4. DID CONTESTANT VERBALLY IDENTIFY ROOF & RIB	_____	_____*	10
5. DID CONTESTANT IDENTIFY FLOAT COAL DUST	_____	_____*	11
6. DID CONTESTANT DANGER FLOAT COAL DUST	_____	_____*	12
7. DID CONTESTANT DTI DANGER SIGN	_____	_____*	4
8. DID CONTESTANT IDENTIFY CHECK W/ RAM CAR BEHIND	_____	_____*	11
9. DID CONTESTANT FLAG CHECK W/ RAM CAR BEHIND	_____	_____*	12
10. DID CONTESTANT IDENTIFY LINE CURTAIN MISSING	_____	_____*	11
11. DID CONTESTANT CORRECT LINE CURTAIN MISSING	_____	_____*	12
12. DID CONTESTANT TAKE A GAS TEST AT #3 HEADING	_____	_____*	5
13. DID CONTESTANT RE-TEST GAS AFTER VENTING	_____	_____*	5
14. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
15. DID CONTESTANT DTI AT #3 FACE	_____	_____*	4

### LOCC Xcut 9 Entry 2-3

	<u>YES</u>	<u>NO</u>	<u>RULE</u>
1. DID CONTESTANT TAKE AIR READINGS	_____	_____*	9
2. DID CONTESTANT TAKE PROPER AIR READING	_____	_____*	8

### 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

## **LOCC Measurements**

**18' Wide  
X  
6' High**

**LOCC Velocity**

**175 V**



Use Indelible Pencil or Ink

**PRESHIFT – CERTIFIED EXAMINER'S REPORT**

Report Shall Be Signed When Finished

Date of Examination 6/7/2017 Time From: \_\_\_\_\_ AM/PM To: \_\_\_\_\_ AM/PMSection/Area: NO. 1 Unit Reported Outside? Yes \_\_\_ NoX\_\_\_ Time: \_\_\_\_\_ AM/PMReported By: \_\_\_\_\_ Received By: \_\_\_\_\_ (Initial)  
(Authorized Person)**Preshift required within 3 hours prior to any 8 hour period**

Location	Hazardous Condition	Action Taken
No. 1 entry XC 6-7	Water 36" Deep	Pumped
No. 1 entry XC 7	No Stopping to Separate belt from Primary Escapeway	Dangered Off
No. 1 entry & 1 Right XC 9 LOCC	Unbolted cut not Flagged Off	Dangered Off
No. 1 Left XC 9	30' cut into Barrier	Dangered Off
No. 2 entry XC 6-7	Loose Coal 24" deep x 12' long x 3' wide	Dangered Off
No. 2 entry XC 8-9	Loose Rib	Pulled
No. 3 entry XC 7	Float Coal Dust 1/8" deep x 8' wide x 20' long	Dangered Off
No. 3 entry XC 8	No Flagging @ Check Curtain with Ram Car parked behind it	Flagged
No. 3 inby LOCC	Line Curtain Missing & 1.1% CH4 at face	Hung Curtain & retested 0% CH4

**Air Measurements**

Location	CFM	Location	CFM
Entry 2-3 LOCC	18,900		

**Velocities**

Longwall Headgate: \_\_\_\_\_ Longwall Tailgate: \_\_\_\_\_

Remarks: \_\_\_\_\_

Contest's Name

Signed by Preshift – Certified Examiner

6/7/2017

Date

XXXXXXX

Certification Number

Countersigned by Mine Foreman

Date

Certification Number

Countersigned by Operator / Agent

Date

Certification Number

THIS RECORD TO BE MAINTAINED FOR ONE (1) YEAR



Use Indelible Pencil or Ink

**PRESHIFT – CERTIFIED EXAMINER'S REPORT**

Report Shall Be Signed When Finished

Date of Examination 6/7/2017 Time From: \_\_\_\_\_ AM/PM To: \_\_\_\_\_ AM/PMSection/Area: NO. 1 Unit Reported Outside? Yes \_\_\_ NoX\_\_\_ Time: \_\_\_\_\_ AM/PMReported By: \_\_\_\_\_ Received By: \_\_\_\_\_ (Initial)  
(Authorized Person)**Preshift required within 3 hours prior to any 8 hour period**

Location	Hazardous Condition	Action Taken
No. 1 entry Face	N/A	0% CH <sub>4</sub>
No. 1 Unit Power Center	N/A	0% CH <sub>4</sub>
No. 2 entry Face	N/A	0% CH <sub>4</sub>
1st West No. 8 Seal	N/A	0% CH <sub>4</sub>

**Air Measurements**

Location	CFM	Location	CFM
Entry 2-3 LOCC	18,900		

**Velocities**

Longwall Headgate: \_\_\_\_\_

Longwall Tailgate: \_\_\_\_\_

Remarks: \_\_\_\_\_

Contestants Name  
 Signed by Preshift – Certified Examiner

6/7/2017  
 Date

XXXXXXXXXX  
 Certification Number

 \_\_\_\_\_  
 Countersigned by Mine Foreman

 \_\_\_\_\_  
 Date

 \_\_\_\_\_  
 Certification Number

 \_\_\_\_\_  
 Countersigned by Operator / Agent

 \_\_\_\_\_  
 Date

 \_\_\_\_\_  
 Certification Number

THIS RECORD TO BE MAINTAINED FOR ONE (1) YEAR