

2018 Indiana State



Preshift Contest

Note from Leroy Loveless, Mine Foreman

Hey Buddy, Glad to have you back!! A lot has happened since you been gone. We stopped mining in the 2nd North Panel because of bad roof and high methane. We moved the No. 1 Unit to the 3rd South. We set up the unit with the feeder at cross cut 8 and the last open cross cut is at cross cut 9. We built an overcast over the feeder in cross cut 8 because we're going to set No. 2 Unit up here driving off to the left in a couple weeks when they get done where they are mining at now. I was here yesterday and we got almost everything set up and the overcast completed. I had to set a pump in the cross cut beside the overcast because of water building up on us, please keep power on this pump if you can because the water builds up fast if it's off. I sent Bubba and his crew to the No. 1 Unit last night to finish everything up and get it ready to start running coal today. He said he would get it right but you know how he is!!

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

I need you to go preshift the No. 1 Unit from cross cut 6 ½ of the 3rd South 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 Overcast Safety Precautions for the overcast and some other stuff.

Good Luck and I'll see you when you get outside!!!

**Hoosier Coal Company
Mine No. 1
Mine Plans**

Roof Control Plan

1. The maximum cut depth of this mine is 30 feet.
2. Spacing between rows is typically 5' and 4' between bolts in the row.
3. 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.
4. Entries and cross cuts will be driven on 50' x 50' centers minimum.
5. The maximum entry and crosscut width is 18'.

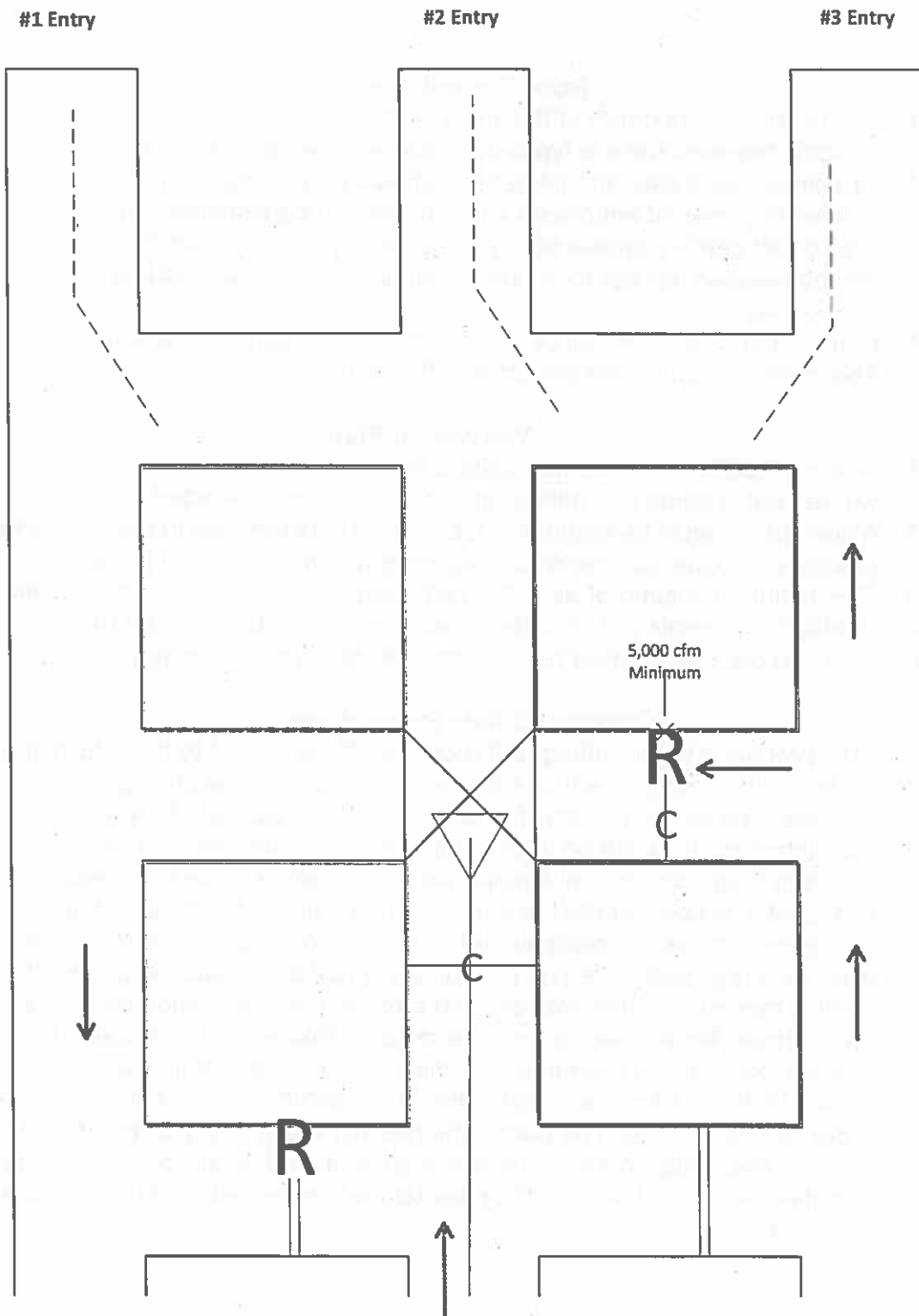
Ventilation Plan

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 15' 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.

Overcast Safety Precautions

1. Dust produced while cutting roof rock out will be vented to the return and no one will be allowed within 1,000 feet downwind while cutting.
2. The overcast will be constructed using traditional accepted methods.
3. Ventilation controls will be installed as shown on the attached overcast unit vent map until the unit loading point is advanced inby the overcast.
- * 4. A regulator will be installed to provide a minimum of 5,000 cfm of air movement across the overcast until it is put into service. A curtain maybe used as a regulator by leaving the opening half open until the unit loading point is moved inby the overcast and a permanent ventilation control is built. (Note: An air reading must be taken at this regulator as part of the preshift exam until a permanent ventilation control is installed and the results of this reading recorded in the unit preshift record page.)
- * 5. A gas test will be taken as part of the preshift exam using an extendable probe in the cavity on top of the overcast until the loading point is moved inby the overcast. The results of this test will be recorded in the unit exam record book.

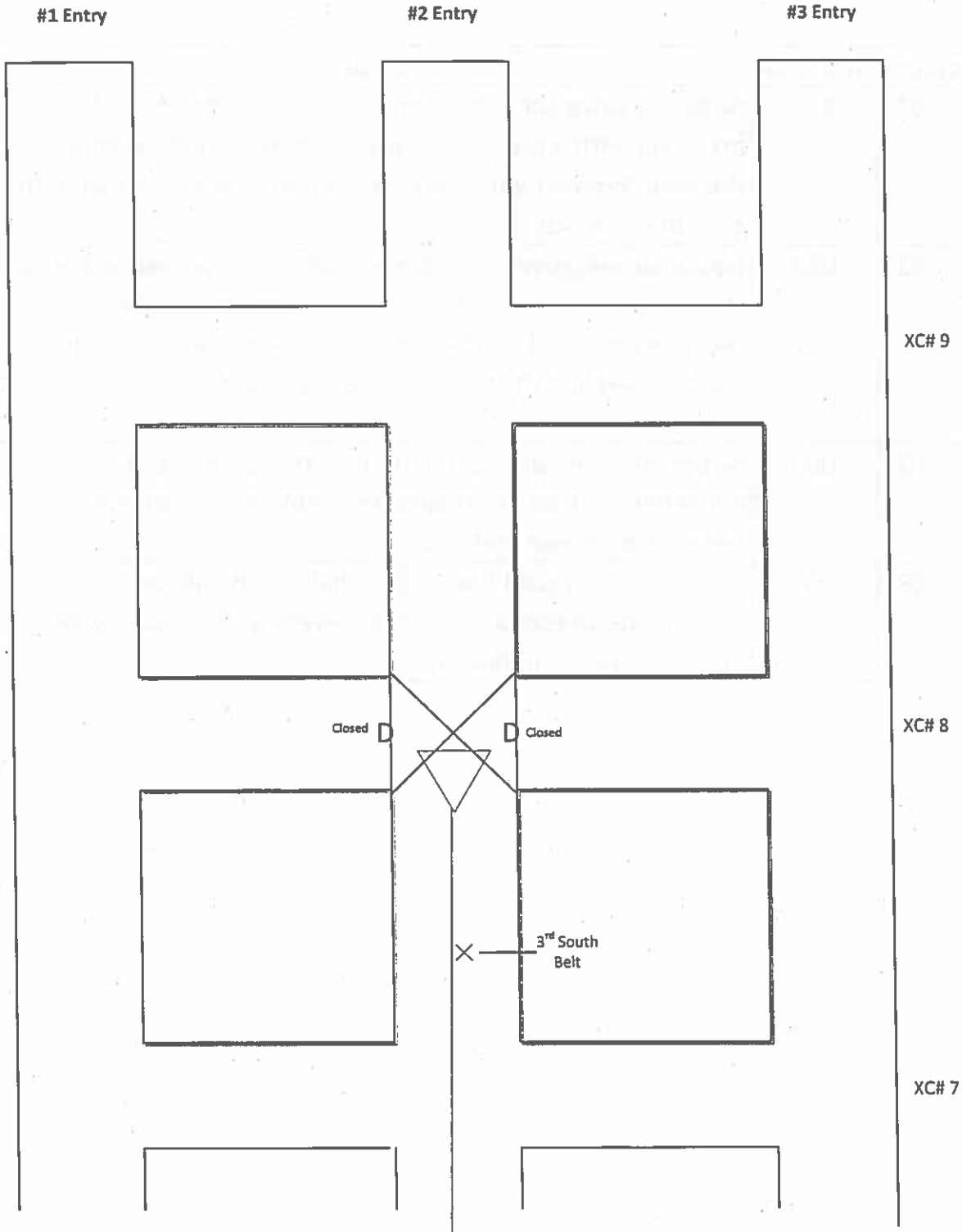
Mine No. 1 Overcast Unit Vent Map



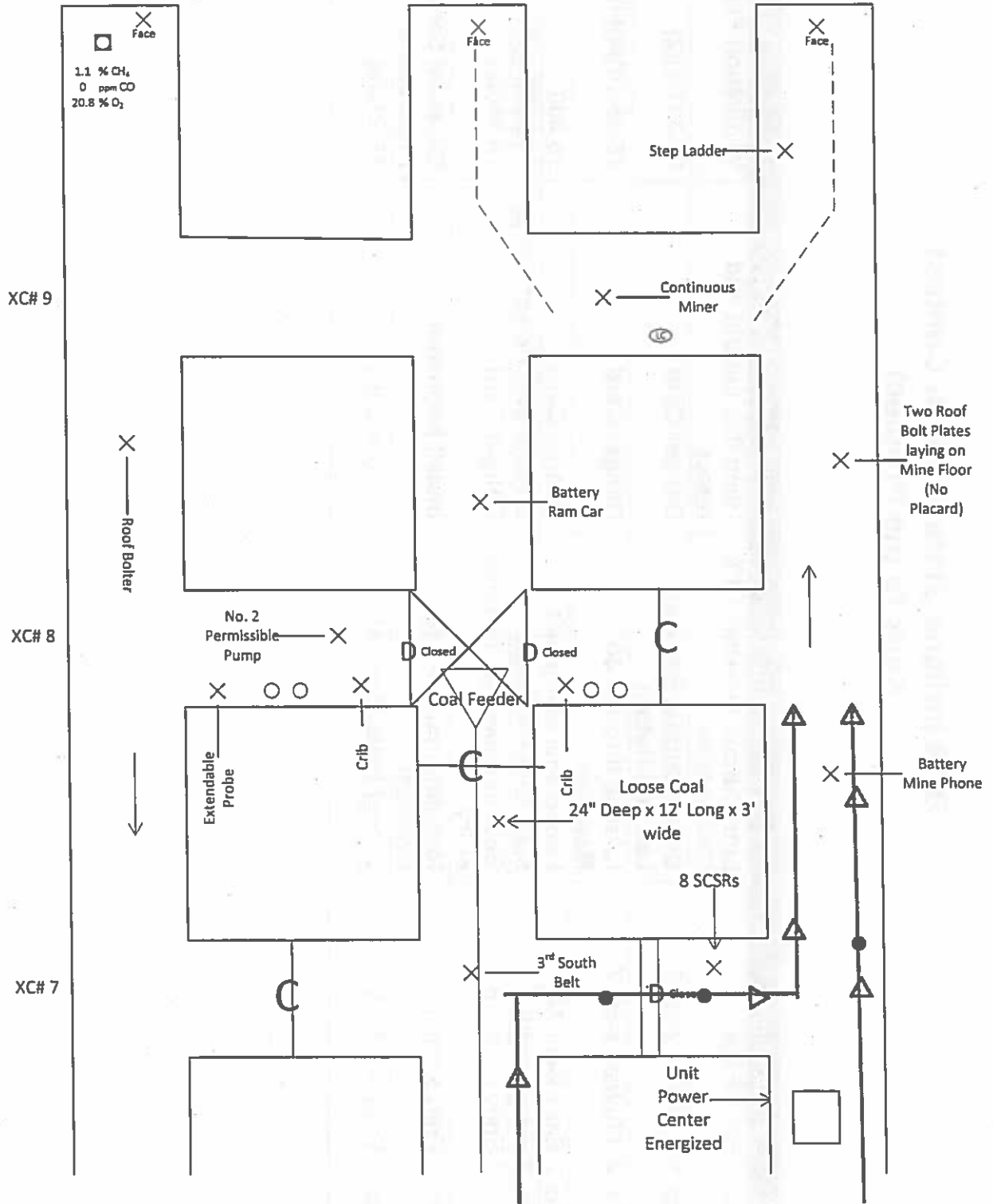
Summary of Safeguards

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.

2018 Indiana State Pre-shift Contest Blank Map



2018 Indiana State Pre-shift Contest Map



2018 Indiana State Preshift Contest Keys to the Problem

Location	Hazard	Corrective Action	Notes
No. 1 Entry Face	Line Curtain missing 1.1% CH4 in face	Hang line curtain and retest	Ventilation Plan
No. 1-2 Entries x-cut 7	Check Curtain Between belt and Return	Danger Card	75.333(a)(2)
No. 2-3 Entries x-cut 7	Lifeline through 30" Mandoor	Danger Card	75.380(d)(4)(ii)
No. 2 Entry x-cut 7-8	Loose coal along belt	Danger Card	75.400
No. 2 Entry x-cut 8	5.4% CH4 Overcast	De-Energize Power Center	75.323(b)(2)
No. 3 Entry x-cut 7-8	Both escapeways in same entry	Danger Card	75.380(a)
No. 3 Entry x-cut 8	Regulator missing @ overcast	Install Regulator	Overcast Safety Precautions
No. 3 Entry x-cut 8-9	2 Roof bolts tore out	Danger Card	75.202(a)

**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 RD SOUTH BELT	_____	_____*	4
2. DID CONTESTANT TAKE GAS TEST AT 3 RD SOUTH 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 LIFE LINE THROUGH DOOR	_____	_____*	11
9. DID CONTESTANT DANGER LIFE LINE THROUGH DOOR	_____	_____*	12
10. DID CONTESTANT DTI AT DANGER SIGN	_____	_____*	4
11. DID CONTESTANT IDENTIFY RETURN STOPPING MISSING	_____	_____*	11
12. DID CONTESTANT DANGER RETURN STOPPING MISSING	_____	_____*	12
13. DID CONTESTANT DTI AT DANGER SIGN	_____	_____*	4
14. DID CONTESTANT TAKE GAS TEST OVER OVERCAST	_____	_____*	5
15. DID CONTESTANT USE EXTENDABLE PROBE	_____	_____*	5
16. DID CONTESTANT IDENTIFY 5.4% CH4 OVERCAST	_____	_____*	11

17. DID CONTESTANT DE-ENERGIZE POWER (5.4% CH4)	_____	_____*	12
18. DID CONTESTANT RETEST AFTER VENTING	_____	_____*	5
19. DID CONTESTANT TAKE GAS TEST AT #2 FACE	_____	_____*	5
20. 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 LINE CURTAIN MISSING	_____	_____*	11
5. DID CONTESTANT INSTALL LINE CURTAIN	_____	_____*	12
6. DID CONTESTANT TAKE A GAS TEST AT #1 FACE	_____	_____*	5
7. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
8. DID CONTESTANT RETEST AFTER VENTING 1.1%CH4	_____	_____*	5

#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
4. DID CONTESTANT DE-ENERGIZE POWER BEFORE FINDING CH4 OVER OVERCAST (EXPLAIN ON CARD)	_____*	_____	19

#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 LIFELINES SAME ENTRY	_____	_____*	11
6. DID CONTESTANT DANGER LIFELINES SAME ENTRY	_____	_____*	12
7. DID CONTESTANT DTI DANGER SIGN	_____	_____*	4
8. DID CONTESTANT IDENTIFY REGULATOR MISSING	_____	_____*	11
9. DID CONTESTANT CORRECT REGULATOR MISSING	_____	_____*	12
10. DID CONTESTANT INSTALL REGULATOR PRIOR TO DE-ENERGIZE POWER (5.4% OVER PUMP)	_____*	_____	16
11. DID CONTESTANT TAKE AIR READING REGULATOR	_____	_____*	9
12. DID CONTESTANT TAKE PROPER AIR READING	_____	_____*	8
13. DID CONTESTANT IDENTIFY BOLTS MISSING	_____	_____*	11
14. DID CONTESTANT DANGER BOLTS MISSING	_____	_____*	12
15. DID CONTESTANT DTI AT DANGER SIGN	_____	_____*	4
16. DID CONTESTANT TAKE A GAS TEST AT #3 FACE	_____	_____*	5
17. DID CONTESTANT TAKE A PROPER GAS TEST	_____	_____*	6
18. DID CONTESTANT DTI AT #3 FACE	_____	_____*	4

LOCC Xcut 9 Entry 1-2

	<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 Measurement

18' Wide
X
7.5 High

LOCC Velocity

150V

Regulator Measurement

8' Wide

X

7.5 High

Regulator Velocity

88V

GAS TEST OVER OVERCAST

5.4% CH₄

0 PPM CO

20.8% O₂

Date of Examination 6/6/2018 Time From: _____ AM/PM To: _____ AM/PM

Section/Area: #1 Unit Reported Outside? Yes ___ NoX__ Time: _____ AM/PM

Reported 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	Line Curtain Missing	Installed Line Curtain
No. 1 Entry Face	1.1% CH4	Vented out and retested 20.8%
No. 2 Entry XC 7 Entry 2-3	Lifeline installed through 30" Mandoor	Dangered Off
No. 2 Entry XC 7 Entry 2-3	No Stopping to Separate Belt and Return	Dangered Off
No. 2 Entry XC 7-8	Loose Coal 24" deep x 12' long x 3' wide	Dangered Off
No. 2 Entry XC# 8 Overcast	5.4% CH4	Vented out and retested 20.8%
No. 3 Entry XC 7-8	Primary & Secondary Escapeway in Same entry	Dangered Off
No. 3 Entry XC# 8 Entry 2-3	Regulator Not Installed	Installed Regulator
No. 3 Entry XC 8-9	Two Tore Out Roof Bolt Plates	Dangered Off

Air Measurements

Location	CFM	Location	CFM
LOCC XC# 9 Entry 1-2	20,250		
Overcast Regulator XC#8 Entry 2-3	5,280		

Velocities

Longwall Headgate: _____

Longwall Tailgate: _____

Remarks: _____

Contestants Name
Signed by Preshift – Certified Examiner

6/6/2018
Date

Certification Number

Countersigned by Mine Foreman

Date

Certification Number

Use Indelible Pencil or Ink

PRESHIFT – CERTIFIED EXAMINER’S REPORT

Report Shall Be Signed When Finished

Date of Examination 6/6/2018 Time From: _____ AM/PM To: _____ AM/PM

Section/Area: 001-0 Unit Reported Outside? Yes ___ NoX___ Time: _____ AM/PM

Reported By: _____ Received By: _____ (Initial)
(Authorized Person)

Preshift required within 3 hours prior to any 8 hour period

Location	Hazardous Condition	Action Taken
No. 2 entry Face	N/A	0% CH4
001-0 Unit Power Center	N/A	0% CH4
No. 3 entry Face	N/A	0% CH4

Air Measurements

Location	CFM	Location	CFM

Velocities

Longwall Headgate: _____ Longwall Tailgate: _____

Remarks: _____

Contestants Name
Signed by Preshift – Certified Examiner

6/6/2018
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