

HATFIELD AND McCOY MINE SAFETY COMPETITION PRESHIFT EXAMINER'S CONTEST JULY 12, 2016

CONTESTANT STATEMENT

The Hatfield and McCoy Coal Company, Pikeville No. 1 Mine, mines coal with a continuous miner, shuttle cars, roof bolting machine and battery powered scoops. The mine operates two shifts per day, five days per week on MMU 001-0. This mine has a history of poor roof/rib conditions and multiple citations issued for low belt air velocities.

You are to conduct a preshift examination of the MMU 001-0, including the crosscut containing Survey Station 101, for the upcoming shift. This section was idle the previous 8 hour shift.

The MMU 001-0 section consists of three entries.

No. 1 entry is the intake

No. 2 entry is the belt

No. 3 entry is the return

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 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 Examiner shall comply with the approved plans

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

HATFIELD AND McCOY MINE SAFETY COMPETITION PRE-SHIFT EXAMINER'S CONTEST JULY 12, 2016

Roof Control Plan

- Minimum bolt length 60" resin grouted rebar bolt.
- The roof bolt installation pattern is 4 feet by 4 feet.
- The maximum entry and crosscut widths are 20 feet.
- When an unbolted crosscut is present, the preshift examiner may precede inby the crosscut to examine the working places.
- The maximum cut depth is 30 feet.
- Extended Cuts shall not be left unsupported over a 24 hour period.
- When subnormal or adverse roof conditions are encountered, the depth of the cut shall be limited to 20' or less until roof conditions have improved to a point where extended cuts may be resumed. At least 60', or two deep cut lengths, whichever is more, shall be advanced in good (normal) roof and the roof evaluated by the mine foreman or section foreman, roof-bolt operator and the miner operator before extended cuts are resumed.

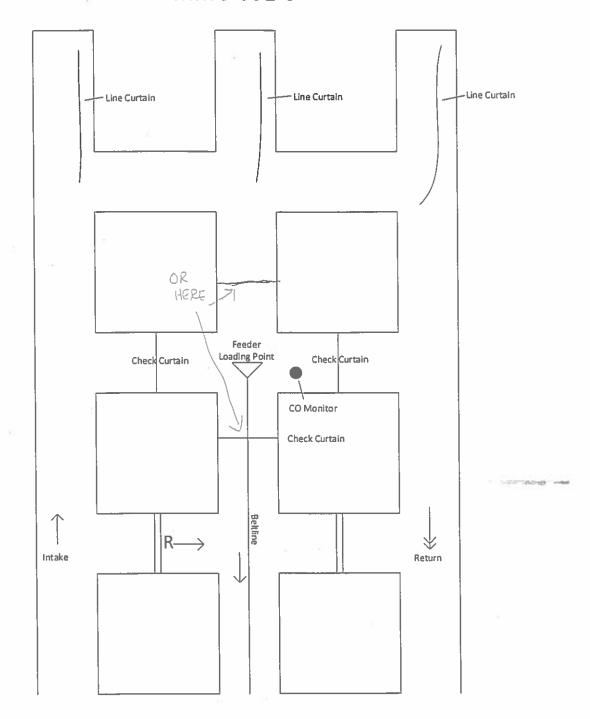
HATFIELD AND McCOY MINE SAFETY COMPETITION PRESHIFT EXAMINER'S CONTEST JULY 12, 2016

MMU 001-0 Ventilation Plan

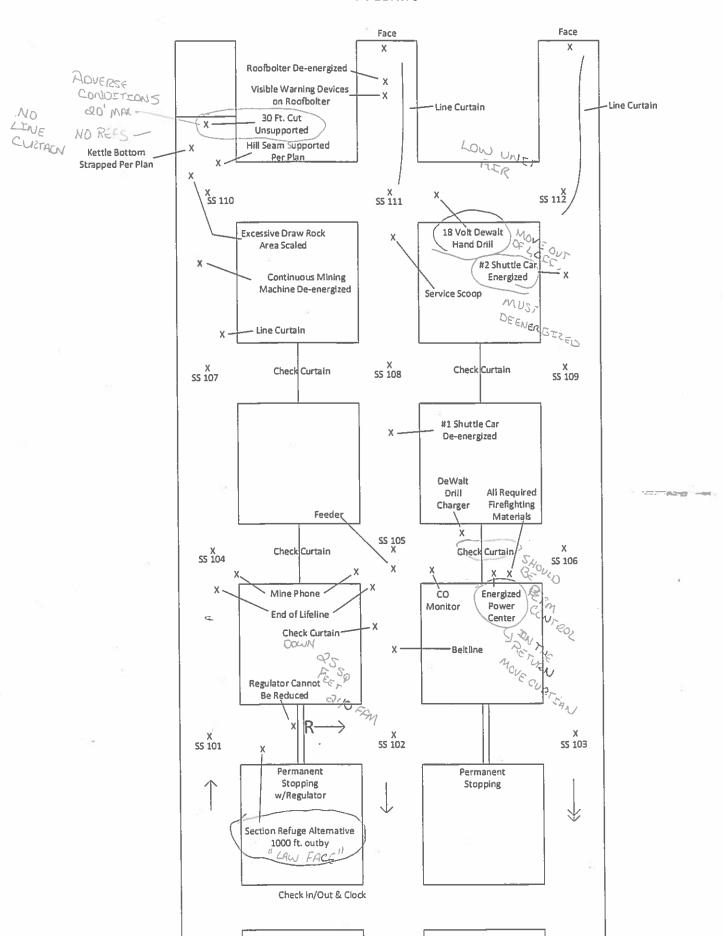
18.000 MAY PEOSLEW

- 20,000 CFM will be provided in the last open crosscut and permanent ventilation controls maintained up to and including third open crosscut on return side
- 7,500 CFM or 75 FPM mean air velocity (whichever is greater) will be provided in all working faces where coal is cut, mined, loaded or drilled for blasting. (Exhausting face ventilation only)
- 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.
- 6,000 CFM will be provided at belt air regulator outby the section loading point. Quantity to be checked and recorded in Preshift Record
- Section Loading point CO Monitor location shown on Ventilation Plan Typical Face Sketch

Ventilation Plan Typical Face Sketch MMU 001-0



2016 Hatfield & McCoy Mine Safety Competition Preshift



2016 Hatfield & McCoy Mine Safety Competition Preshift -- CONTESTANT MAP

	20			
X SS 110		SS 111		SS 112
X SS 107		X SS 108	*S	X SS 109
			<u>.</u>	
X SS 104		X SS 105	W.	X SS 106
X		x	×	X SS 103
X SS 101		SS 102	10)	SS 103

2016 Hatfield & McCoy Mine Safety Competition Preshift – JUDGES BLANK MAP

	_			
X SS 110		X SS 111	1	SS 112
X SS 107		X SS 108		X SS 109
X 5S 104		X SS 105		X 55 106
X SS 101		X - SS 102		X SS 103

LAST OPEN CROSSCUT AIR READINGS

ENTRY WIDTH → 20 FEET

ENTRY HEIGHT → 6 FEET

VENTILATION CONTROLS IN-PLACE

Velocity - 150 fpm

 $20 \times 6 \times 150 = 18,000 \text{ cfm}$

WITHOUT VENT. CONTROLS IN-PLACE

Velocity - 60 fpm

 $20 \times 6 \times 60 = 7,200 \text{ cfm}$

ANEMOMETER TURNED BACKWARDS

Velocity - 850 fpm

 $20 \times 6 \times 850 = 102,000 \text{ cfm}$

BELT REGULATOR AIR READINGS

Area - 25 square feet

Velocity - 240 fpm

 $25 \times 240 = 6,000 \text{ cfm}$

ANEMOMETER TURNED BACKWARDS

Velocity - 760 fpm

 $25 \times 760 = 19,000 \text{ cfm}$

PRE-SHIFT EXAMINATION CONTEST JUDGES DISCOUNT SHEET

CONTESTANT	_ NO	*DENOT	ES DISCO	TNUC
OUTSIDE (1) DID CONTESTANT CHECK IN (2) DID CONTESTANT CHECK SCSR		YES	<u>NO</u> *	RULE 1 3
(3) DID CONTESTANT CHECK METHANE/OXYGEN DETEC (4) DID CONTESTANT HAVE ALL REQUIRED EQUIPMENT (5) WAS CONTESTANT EQUIPMENT MAINTAINED IN OPERABLE CONDITION (6) DID CONTESTANT CHECK OUT		_	*** *** *** *** *** *** *** ***	19 2 14
				•
NO. 1 ENTRY		YES	<u>NO</u>	RULE
(1) DID CONTESTANT TAKE GAS TEST IN ENTRY			*	5
(2) DID CONTESTANT TAKE A PROPER GAS TEST		_	*	6
(3) DID CONTESTANT DTI ENTRY WHERE GAS TEST WAS		_	*	4
(4) DID CONTESTANT IDENTIFY ROOF & RIB TEST IN EN			*	10
(5) DID CONTESTANT TAKE GAS TEST IN THE FACE ARE			*	5
NEAR LAST PERMANENT ROOF SUPPORT (FACE NOT	ROLIED)		*	6
(6) DID CONTESTANT TAKE A PROPER GAS TEST (7) DID CONTESTANT DTI THE FACE AREA #1 ENTRY (NO	T BOI TED)			6 4
(8) DID CONTESTANT ENTER UNSUPPORTED AREA OF #1		*		16
(9) DID CONTESTANT IDENTIFY MISSING LINE CURTAIN			*	11
(10) DID CONTESTANT INSTALL LINE CURTAIN		_	*	12
(11) DID CONTESTANT IDENTIFY 30 FT CUT IN ADVERSE	ROOF		*	-
(12) DID CONTESTANT DANGER 30 FT CUT IN ADVERSE I			*	12
(13) DID CONTESTANT IDENTIFY NO VISIBLE WARNING		_	*	11
(14) DID CONTESTANT INSTALL VISIBLE WARNING DEV			_*	12
NO. 2 ENTRY		VEC	NO	RULE
(1) DID CONTESTANT TAKE GAS TEST IN ENTRY		<u>YES</u>	NO *	5
(2) DID CONTESTANT TAKE A PROPER GAS TEST			*	6
(3) DID CONTESTANT DTI ENTRY WHERE GAS TEST WAS	SMADE			4
(4) DID CONTESTANT IDENTIFY ROOF & RIB TEST IN EN			*	10
(5) DID CONTESTANT IDENTIFY MISSING CHECK CURTA		_	*	11
(6) DID CONTESTANT INSTALL CHECK CURTAIN		_	*	12
(7) DID CONTESTANT TAKE GAS TEST IN FACE AREA			*	5
(8) DID CONTESTANT TAKE A PROPER GAS TEST		97.2	*	6
(9) DID CONTESTANT DTI THE FACE AREA #2 ENTRY		10.00	į . *	4

PRE-SHIFT EXAMINATION CONTEST JUDGES DISCOUNT SHEET

CONTESTANT	NO	*DENOTES	DISCO	JNT
	NO. 3 ENTRY	<u>YES</u>	<u>NO</u>	RULE
(1) DID CONTESTANT TAKE GAS TEST IN (2) DID CONTESTANT DTI ENTRY WHERE (3) DID CONTESTANT TAKE A PROPER GA (4) DID CONTESTANT IDENTIFY ROOF & I (5) DID CONTESTANT IDENTIFY ENERGIZ (6) DID CONTESTANT DE-ENERGIZE #2 SI (7) DID CONTESTANT TAKE GAS TEST IN (8) DID CONTESTANT TAKE A PROPER GA (9) DID CONTESTANT DTI THE FACE ARE	GAS TEST WAS MADE AS TEST RIB TEST ED #2 SHUTTLE CAR HUTTLE CAR THE FACE AREA #3 ENTRY AS TEST		* * * * * * * * * * * * * * * * * * * *	5 4 6 10 11 12 5 6 4
CROSS CI	JT BETWEEN SS 101 &102	YES	NO	RULE
(1) DID CONTESTANT CHECK QUANTITY (2) DID CONTESTANT IDENTIFY SECTION (3) DID CONTESTANT DANGER RA LOCA	RA TOO FAR OUTBY		*	7 11 12
CROSS CI	JT BETWEEN SS 105 &106	VEC	NO	DIII E
(1) DID CONTESTANT IDENTIFY PERMAN (2) DID CONTESTANT DANGER MISSING (3) DID CONTESTANT IDENTIFY POWER (4) DID CONTESTANT DANGER PC OR MC (5) DID CONTESTANT GAS TEST AT POWER (6) DID CONTESTANT TAKE PROPER GAS (7) DID CONTESTANT DTI AT POWER CEN	PERMANENT CONTROL CENTER IN RETURN OVE CHECK CURTAIN ER CENTER TEST	YES	<u>NO</u> * - * - * - * - * - * - * - * - *	RULE 11 12 11 12 5 6 4
CD OCC C	LOCC			
(1) DID CONTESTANT DETERMINE CORR. (2) DID CONTESTANT USE PROPER PROC. (3) DID CONTESTANT TAKE LOCC AIR RE. (4) DID CONTESTANT IDENTIFY LOW AIR. (5) DID CONTESTANT DANGER LOW AIR. (6) DID CONTESTANT IDENTIFY 18V DRII. (7) DID CONTESTANT REMOVE 18V DRII.	EDURE FOR LOCC AIR READING IN CORRECT LOCATIO R IN LOCC IN LOCC LL IN LOCC LL IN LOCC		NO * * * *	RULE 7 8 9 11 12 11 12
	GENERAL RULES	YES	<u>NO</u>	RULE
(1) DID CONTESTANT RUN (2) DID CONTESTANT EXAM ALL ACCES (3) DID CONTESTANT COMPLY WITH GE		*	*	13 18 19

PRE-SHIFT - CERTIFIED EXAMINER'S REPORT

CONTESTANT NUMBER			CONTESTANT NAME				
Date of Examination:		Time Fr	om:	AM/PM	To:	AM/PM	
Section/Area:			Reporte	d Outside	? Yes No	Time:	AM/PM
Reported By:	_	_	Receive	d By:		(AUTHOR	(INITIAL) IZED PERSON)
	Pre-shift red	uired with	in 3 hou	rs prior to	any 8 hour inte		ied i erson)
Location	Hazardous C				Action Take		CH4
No. 1 Entry							0.0%
No. 1 Face Area							0.0%
No. 1 Face Area	Missing Line Curtain		Insta	Installed Line Curtain			
No. 1 Face Area	Missing visible warning device		Insta	Installed visible warning device			
No. 1 Face Area	30 ft. extended cut in adverse roof		Dan	ger Off			
No. 2 Entry							0.0%
No. 2 Entry	Missing Check Curtain		Insta	alled Chec	k Curtain		
No. 2 Face					-		0.0%
No. 3 Entry						-	0.0%
No. 3 Entry	Entry Energized #2 Shuttle Car		De-e	energize #	2 Shuttle Car		
No. 3 Face	\(\text{\tinit}\\ \text{\texi}\text{\text{\text{\texit{\texi}\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\texi}\tittt{\texititt{\text{\text{\texi}\tint{\text{\texit{\texi}				10.	6	0.0%
= #							
		A	ir Meas	urements	R		
Location CF1		1		Location	· <u>-</u>	CFM	
LOCC 18,000			Belt Regi	ulator		6,000	
						_	
Remarks:							
			1 %				<u> </u>
Signed by Pre-shift Certified Examiner				Dat	te	Certifica	tion Number

PRE-SHIFT - CERTIFIED EXAMINER'S REPORT

CONTESTANT N	UMBER	CONTESTANT NAME				
Date of Examination:		Time From:AM/PM				
Section/Area:	R	Reported Outside? Yes No Time:AM/PM				
Reported By:	R	Received By:(INITIAL) (AUTHORIZED PERSON)				
	Pre-shift required within	n 3 hours prior to any 8 hour interval.				
Location	Hazardous Condition	Action Taken CH4				
Crosscut between SS 101 and SS 102	Section Refuge Alternative too far outby (over 1000 ft. from nearest face)	Danger off				
Crosscut between SS 105 and SS 106	Power Center in Return	Danger Off OR moved check curtain				
Crosscut between SS 105 and SS 106	Permanent Control Required	Danger Off				
Crosscut between SS 111 and SS 112 Or LOCC	18V Drill in LOCC	Removed				
Crosscut between SS 111 and SS 112 Or LOCC	Low Air Volume	Danger Off				
7						
v f	Ajı	ir Measurements				
Locat						
	9	1/4				
	N .	254 24				
Remarks:						
		12 19				
Signed by Pre-shif	t Certified Examiner	Date Certification Number				