

2025 TENNESSEE

Judge's Book RJ



Contestants Name: _____

Working Number: _____ Field Number: _____

CONTESTANT'S STATEMENT

You are the pre-shift examiner for Tennessee's Big Orange #1 Coal Mine. We need you to conduct a pre-shift examination of the 001 section for the oncoming shift. The mine has been idle since Thursday night because we did 8 hours of annual MSHA retraining Friday and then let everyone off this weekend. It is Monday morning and by the time you complete the pre-shift examination, the crew should be here and ready to start running coal.

We also have a couple of crews scheduled to do some outby work today, one crew will be rock dusting in the return and the other crew is to set some timbers along the travel way and in the intake where we have had some bad top reported.

The areas outby the belt shack/fire boss station have already been examined by B.M. You are to begin your examination where B.M. stopped. You are to examine all accessible areas inby that point. The section boss and an electrician (judges) are trained in First Aid and will be on duty while you are conducting your examination. One of them will be close to a phone should you need to contact them.

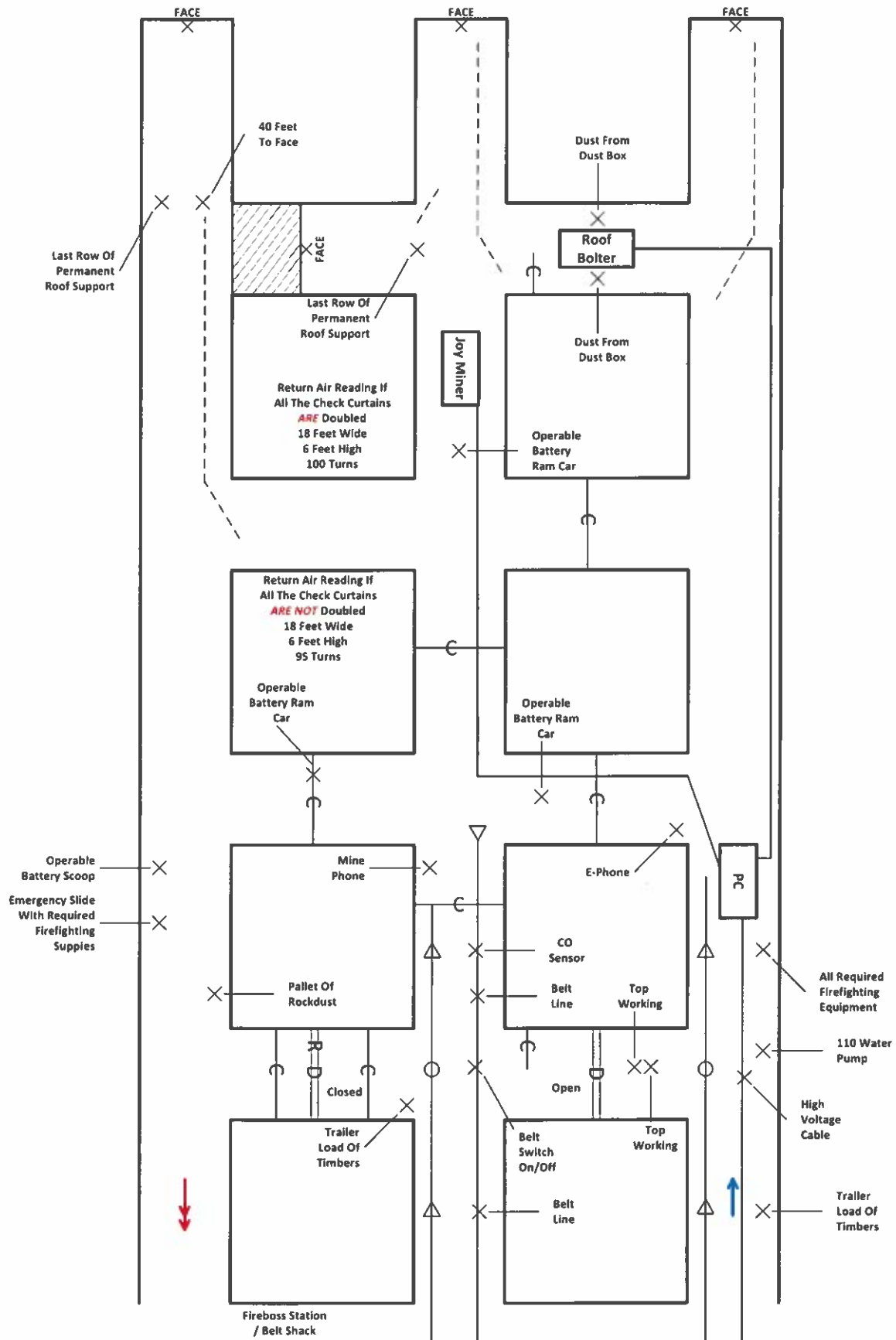
From the looks of things, the section boss on Thursday did not mark up the mine map but I have attached a copy of what they left me. I have also included a copy of our ventilation, roof control, emergency response, and fire & evacuation plans to assist you with your examination.

The mine fan is exhausting and is currently running. It is a new fan that we installed about a month ago. The power is on, underground to keep the pumps running and should stay on if possible. We have run into some issues with water lately.

The entries are numbered left to right, the #1 entry is our return, the #2 entry is our belt line & travel way, and the #3, entry is our intake. Our primary escapeway is the #3 entry and our secondary escapeway is our #2 entry.

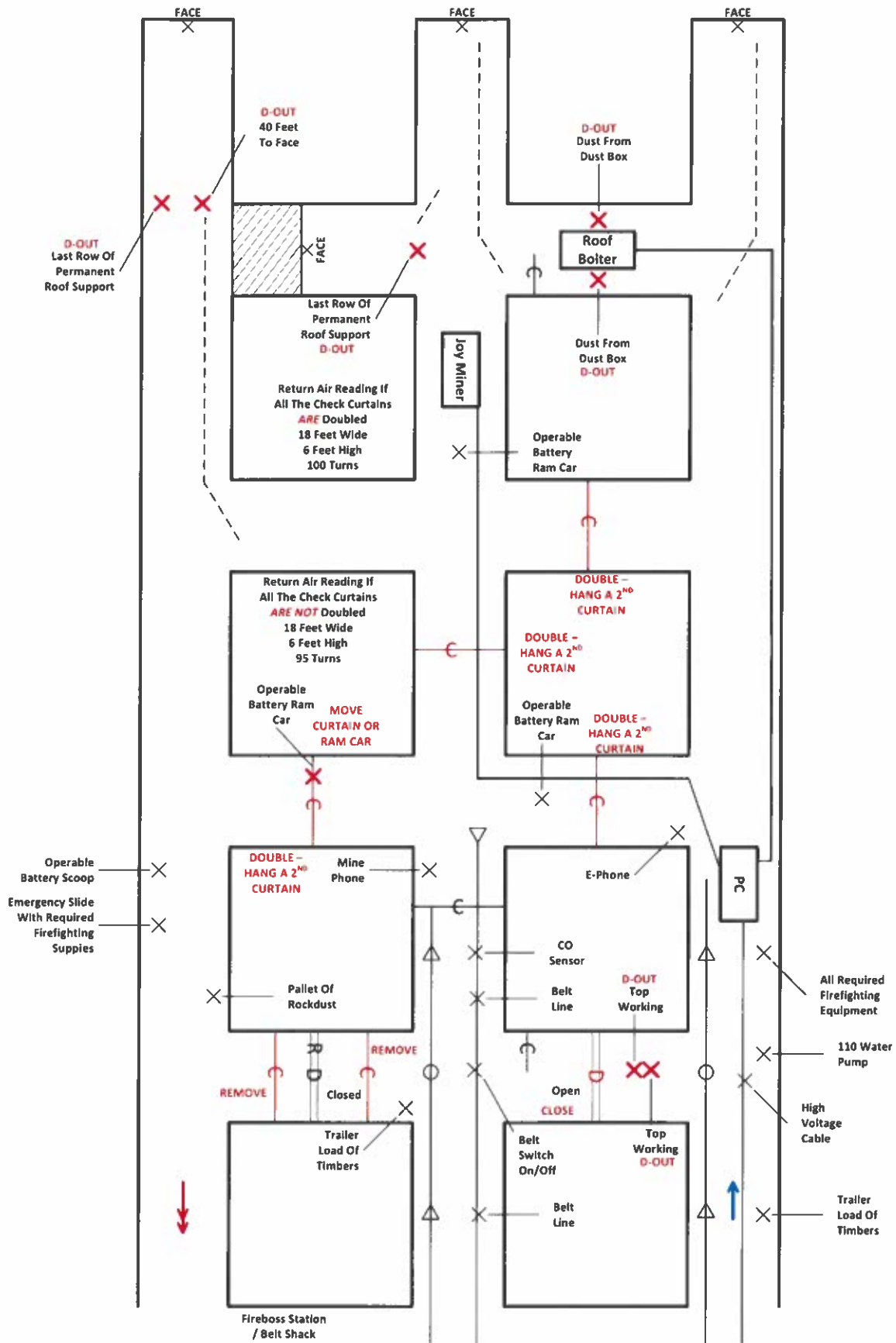


2025 TENNESSEE PRESHIFT PROBLEM MAP



Working # _____ - Contestant's Name: _____

2025 TENNESSEE PRESHIFT VIOLATION MAP



Working # _____ - Contestant's Name: _____

Tennessee's Big Orange #1 Mine

Approved Roof Control Plan

- No mining width, other than turnouts will exceed 19 feet.
- The minimum length of mechanical double-lock roof bolts is 72 inches.
- The minimum length of fully grouted tension rebar roof bolts is 60 inches.
- All roof support shall be installed on no- more than 4-foot centers, 4-foot advance, and the rib pin not more than 36 inches from the rib.
- The minimum length of cable bolts is 96 inches and shall be installed for two rows inby and two rows outby all visible adverse roof conditions.
- Cuts will not be left unbolted for more than 48 hours. Exceptions would include: equipment breakdown, loss of power, evacuation, and untravellable dangered off areas.
- Before a crosscut is started at least two rows of bolts shall be installed inby the proposed cross-cut rib line.
- When significant roof water infiltration is observed inby the dumping point, standing support (timbers, cribs, jacks, steel sets, etc.) or cable bolts will be installed as supplemental support.
- Extended cuts (cuts greater than 20 feet) will be limited to 35 feet when measured from the last row of permanent support.
- A minimum of two rows of additional roof support will be installed under the brow of the roof fall area where work is being or to be performed. These roof bolts shall be at least 24 inches longer than the previously installed bolts.



Tennessee's Big Orange #1 Mine

Approved Ventilation Plan

- Rooms and entries shall not be driven more than 40 feet from the inby rib of the proposed crosscut until the proposed crosscut has been opened.
- Where mobile equipment may travel through any curtain additional layers a minimum of two curtains per location will be used to minimize leakage.
- Permanent stoppings shall be erected and maintained to and including the third connecting crosscut outby the faces of the entries on the return air side and up to the loading point on the intake air side.
- 10,700 CFM of air shall be maintained in the last open crosscut.
- Idle equipment will not be parked under backup curtains.
- In idle faces, the line curtain will be hung to the second full row of bolts outby the face.
- The dust collected from the roof bolting machines will be deposited inby the last open crosscut in the face area where it will be loaded out in cycle.
- 3,000 CFM shall be maintained at the inby end of the line curtain where roof bolts are being installed and within 5, feet of the bumper of the roof bolter.
- 6,900 CFM will be provided at the inby end of the line curtain before the scrubber starts and will be maintained through all lifts where the continuous miner is cutting.



Tennessee's Big Orange #1 Mine Approved Emergency Evacuation & Firefighting Plan

- In the event of a mine emergency all trained and qualified personnel at the mine site will be notified by mine phone or other means.
- The Primary Escapeway is located in the intake aircourse. The lifeline and directional indicators shall be marked with reflective material and located on the right side of the entry when exiting the mine.
- The Secondary Escapeway is located in the supply road beside the belt line. The lifeline and directional indicators shall be marked with reflective material and located on the right side of the entry when exiting the mine.
- Each production unit shall have portable foam-generating equipment, 25 gallons of foam, nozzles, and sufficient fire hose to reach the farthest point of extraction.
- Refuge alternatives are to be used only as a last alternative when escape is cut off.
- Tennessee's Big Orange #1 Mine has a low-level carbon monoxide monitoring system installed in all belt conveyor entries.
- When the carbon monoxide system gives an audible and visual alarm signal all persons in the same split of air shall immediately withdraw to a safe location outby the sensor(s) activating the alarm unless the cause is known not to be a hazard to the miners.



Working #_____ - Contestant's Name: _____

**RETURN AIR
READINGS
IF CHECK
CURTAINS
ARE
DOUBLED**

18 FEET WIDE

6 FEET HIGH

100 TURNS

**RETURN AIR
READINGS
IF CHECK
CURTAINS
ARE NOT
DOUBLED**

18 FEET WIDE

6 FEET HIGH

95 TURNS

2025 TENNESSEE 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 #
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 (CROSSING MOVING BELT)	-20 (ea.)		# 15-F
ENDANGER SELF (TRAVELING THROUGH WORKING TOP)	-20 (ea.)		# 15-C
TOTAL POINTS DISCOUNTED			

#1 ENTRY & 1 RIGHT	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	# 10
GAS TEST IN ENTRY		-5	# 5-A
MAKE PROPER GAS TEST		-2 ea	# 6
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
FIND & IDENTIFY TWO CURTAINS BLOCKING BELT REGULATOR		-10 ea.	# 11
REMOVE TWO CURTAINS BLOCKING BELT REGULATOR		-10 ea.	# 11
DETERMINE THE CORRECT DIRECTION OF AIR AT REGULATOR		-10	# 7
FIND & IDENTIFY RAM CAR PARKED IN VENTILATION CURTAIN		-10	# 11
MOVE RAM CAR OR CURTAIN		-10	# 11
FIND & IDENTIFY VENTILATION CURTAIN NOT DOUBLED		-10	# 11
HANG ANOTHER CHECK CURTAIN		-10	# 11
FIND & IDENTIFY FACE NOT BOLTED WITHIN 48 HOURS		-10	# 11
DANGER OUT FACE NOT BOLTED WITHIN 48 HOURS		-10	# 11
FIND & IDENTIFY CUT TOO DEEP PER ROOF CONTROL PLAN		-10	# 11
DANGER OUT CUT TOO DEEP PER ROOF CONTROL PLAN		-10	# 11
TAKE GAS TEST AT THE LAST ROW OF BOLTS		-5	# 5-H
MAKE PROPER GAS TEST AT THE LAST ROW OF BOLTS		-2 ea	# 6
DTI AT THE LAST ROW OF BOLTS		-2	# 4
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
TOTAL POINTS DISCOUNTED			

# 2 ENTRY & 2 RIGHT	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	# 10
GAS TEST IN ENTRY		-5	# 5-A
MAKE PROPER GAS TEST		-2 ea	# 6
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
FIND & IDENTIFY BELT AIR GOING TO INTO THE INTAKE		- 10	# 11
CORRECT BELT AIR GOING INTO THE INTAKE		- 10	# 11
FIND & IDENTIFY DOOR OPEN ON INTAKE BRATTICE		-10	# 11
CLOSE DOOR ON INTAKE BRATTICE		-10	# 11
FIND & IDENTIFY TOP WORKING IN CROSSCUT		-10	# 11
DANGER OUT TOP WORKING IN CROSSCUT		-10	# 11
FIND AND IDENTIFY VENTILATION CURTAIN NOT DOUBLED IN C.C.		-10	# 11
HANG ANOTHER CHECK CURTAIN IN C.C.		-10	# 11
FIND & IDENTIFY VENTILATION CURTAIN NOT DOUBLED IN ENTRY		-10	# 11
HANG ANOTHER VENTILATION CURTAIN IN ENTRY		-10	# 11
FIND & IDENTIFY VENTILATION CURTAIN NOT DOUBLED IN C.C.		-10	# 11
HANG ANOTHER VENTILATION CURTAIN IN C.C.		-10	# 11
MAKE GAS TEST AT THE LEFT CROSS CUT UNBOLTED AREA		-5	# 5-H
MAKE PROPER GAS TEST AT LEFT CROSS CUT UNBOLTED AREA		-2 ea	# 6
DTI THE LEFT CROSS CUT UNBOLTED AREA		-2	# 4
FIND & IDENTIFY LEFT CROSS CUT NOT BOLTED WITH 48 HOURS		-10	# 11
DANGER OUT LEFT CROSS CUT NOT BOLTED WITHIN 48 HOURS		-10	# 11
FIND & IDENTIFY ROOF BOLTER DUST BOX DUMPED IN LOCC		-10	# 11
DANGER OUT ROOF BOLTER DUST BOX DUMPED IN LOCC		-10	# 11
MAKE GAS TEST AT FACE AREA		-5	# 5-H
MAKE PROPER GAS TEST AT FACE AREA		-2 ea	# 6
DTI THE FACE AREA		-2	# 4
TOTAL POINTS DISCOUNTED			

#3 ENTRY	YES	NO	RULE #
VERBALIZE VISUAL ROOF EXAM IN ENTRY		-2	# 10
GAS TEST IN ENTRY		-5	# 5-A
MAKE PROPER GAS TEST		-2 ea	# 6
DTI IN ENTRY WHERE GAS TEST WAS MADE		-2	# 4
FIND & IDENTIFY TOP WORKING IN CROSS CUT		-10	# 11
DANGER OUT TOP WORKING IN CROSS CUT		-10	#11
MAKE GAS TEST AT POWER CENTER		-5	# 5-F
MAKE PROPER GAS TEST		-2 ea	# 6
DTI AT POWER CENTER		-2	# 4
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			

2025 TENNESSEE PRE-SHIFT EXAMINERS REPORT PAGE

DATE OF EXAMINATION		(-1) 03/03/25		SECTION OR AREA EXAMINED		(-1) # 1UNIT		
TIME OF EXAMINATION		FROM:	(-1) '00:00		A.M. P.M.	TO:	(-1) '00:00 A.M. P.M.	
				Section Discounts =				
LOCATION	CH4	O2	VIOLATION OR HAZARDOUS CONDITION			ACTION TAKEN		
(-2) #1 Entry (Face)	(-1) 0.0%	20.9%	(-2) Not bolted within 48 hours			(-2) Dangered Out		
(-2) #1 Entry (Face)			(-2) Cut too deep pre the roof control plan			(-2) Dangered Out		
(-2) #1 Entry (Right)			(-2) Ventilation curtain not doubled			(-2) Corrected / Hung Curtain		
(-2) #1 Entry (Right)			(-2) Ram Car parked in ventilation curtain			(-2) Moved Car or Curtain		
(-2) #1 Entry At Belt Regulator			(-2) Found two curtains blocking the regulator			(-2) Corrected Removed		
(-2) #1 Entry	(-1) 0.0%	20.9%						
(-2) #2 Entry (FACE)	(-1) '0.0%	20.9%						
(-2) #2 Left	(-1) '0.0%	20.9%	(-2) Not bolted within 48 hours			(-2) Dangered Out		
(-2) #2 Right			(-2) Roof bolter dust boxes dumped in LOCC			(-2) Dangered Out		
(-2) #2 Right			(-2) Ventilation curtain not doubled			(-2) Corrected / Hung Curtain		
(-2) #2 Entry			(-2) Ventilation curtain not doubled			(-2) Corrected / Hung Curtain		
(-2) #2 Right			(-2) Ventilation curtain not doubled			(-2) Corrected / Hung Curtain		
(-2) #2 Entry At Belt Regulator			(-2) Found door open & belt air being vented into the intake			(-2) Closed Door & Corrected		
(-2) #2 Right			(-2) Found top working			(-2) Dangered Out		
(-2) #2 Entry	(-1) '0.0%	20.9%						
(-2) #3 Entry (FACE)	(-1) '0.0%	20.9%						
(-2) Power Center	(-1) 0.0%	20.9%						
(-2) #3 Left			(-2) Found top working			(-2) Dangered Out		
(-2) #3 Entry	(-1) '0.0%	20.9%						
Section =	Section=	Section Discounts=			Section Discounts =			
AIR MEASUREMENTS (MUST BE CORRECT)								
LOCATION	CFM	LOCATION	CFM					
(-2) RETURN	(-1) 10,800	(-2) RETURN	(-1) 10,260					
IF THE ONE OF THE AIR READINGS WERE WORKING DEPENDING ON HOW THEY MOVE THE CURTAINS IT MAY BE THE THEY WILL HAVE LOW AIR				Section Discounts =				
REMARKS								
Section Discounts =								
(-1) Wanna B Examiner		(-1) 03/03/25		(-1) A-01-25				
SIGNED BY THE CERTIFIED EXAMINER		DATE		CERTIFICATION NUMBER				
				Section Discounts =				
				TOTAL DISCOUNTS =				
JUDGE:				JUDGE:				

