

# THE FOREMAN'S HANDBOOK UNDERGROUND



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- 1. Check if start and stop switches are grounded.
- 2. Check belt alignment, stuck rollers, missing rollers and torn belt or splices.
- 3 Guards in place at the belt drive
- 4 Fire suppression at belt drive, fire extinquishers at the belt drive and tailpiece.
- 5 Water valve outlets available along belt line at intervals of not more than 300 feet and at tailpiece.
- 6 Water valve outlet within 300 feet of belt drive with hose available for use.
- 7: 500 feet of hose at a strategic point to be available for use.
- B Check isolation stopping properly installed.
- Belt line rock dusted and no spillage or float dust accumulations.
- 0 Can belt be stopped anywhere along the belt.
- I Bottom belt damp.
- 2. Water sprays operating at transfer points.

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   Do not dean tollers with cap blocks.
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  4. On not work or ball without stopping it.

  5. Do not know a moving ball.

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  7. Batters withing or a start without your knowledge.

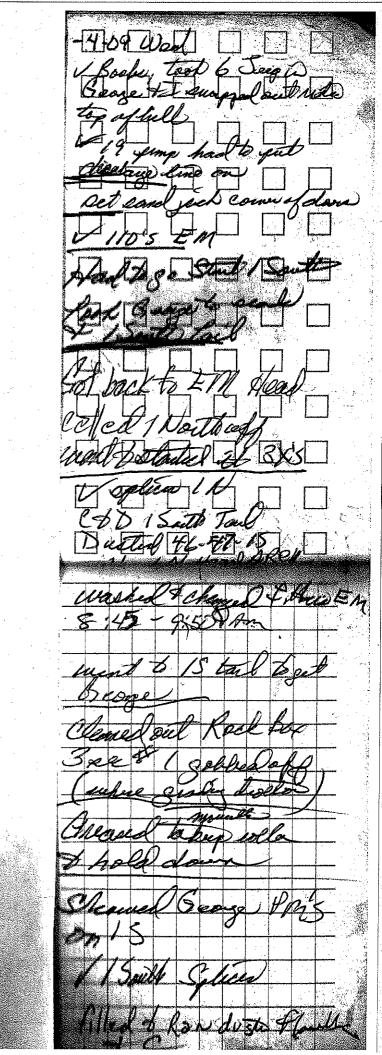
  8. Never starte on a startonary conveyor unless you know it will not start.

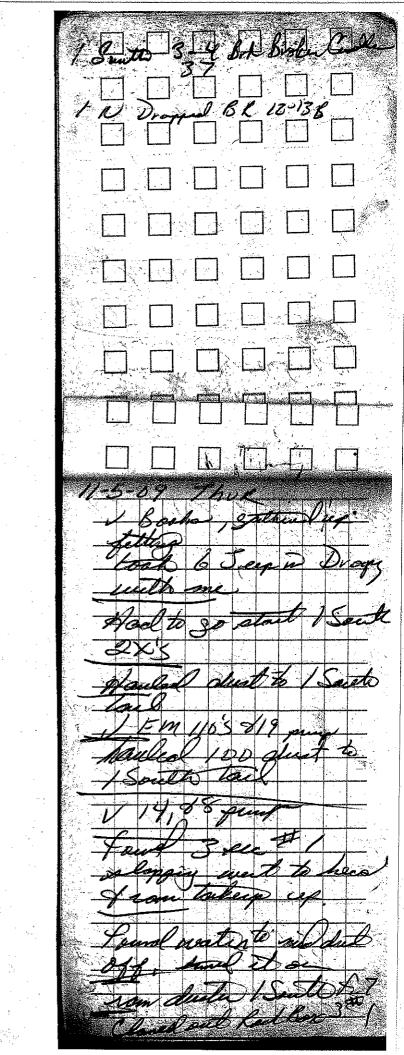
  9. Don't fide on conveyors except where controlled riding to permitted.

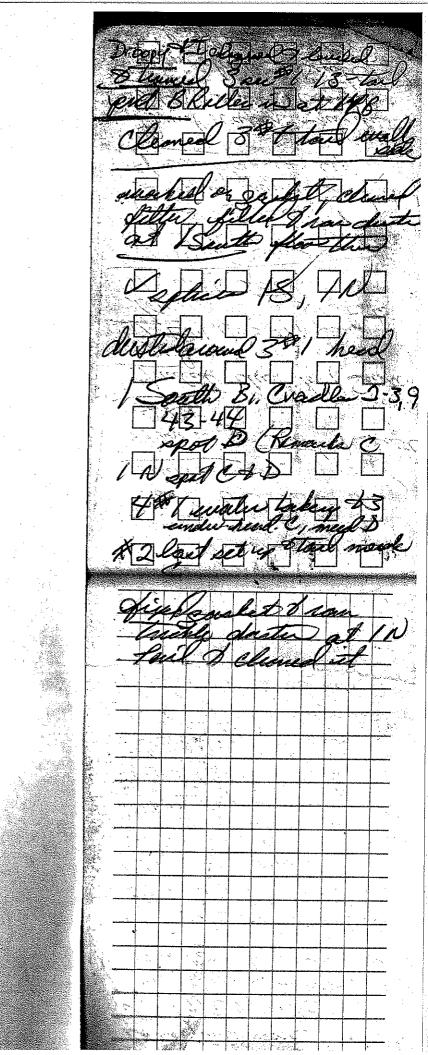
  10. Always cross belt at a bridge or stop it until you are scross.

  11. "Argund any track haulage" always stop look and listen.
- and listen
- 12. Report all defects to locomotives. Have good brakes.
- 13. Avoid violent braking. It often causes skidding.
- 14. Obey speed rules of the mine:
- 15. Do not push trips or run without trip lights.
- 16. Always ride in the cab and do not expose any part of your body outside of motor or car.
- 17. Do not ride bumper of cars.
- 18. It's safer to walk than ride illegally.

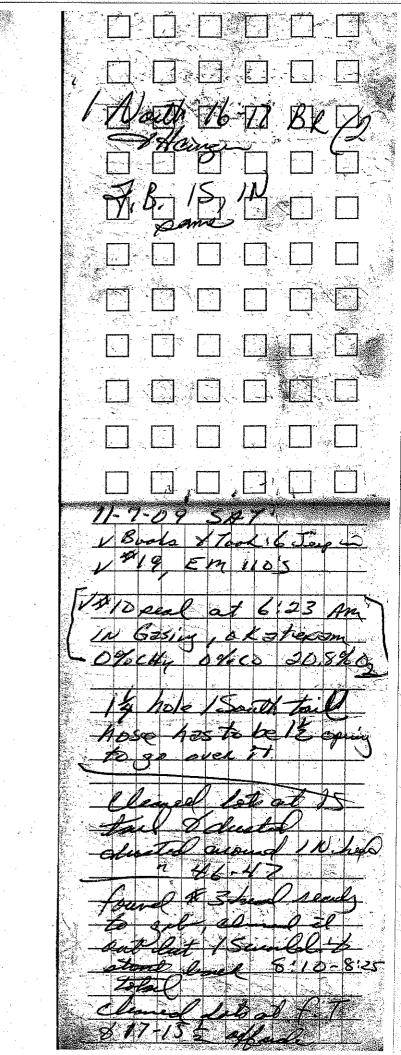
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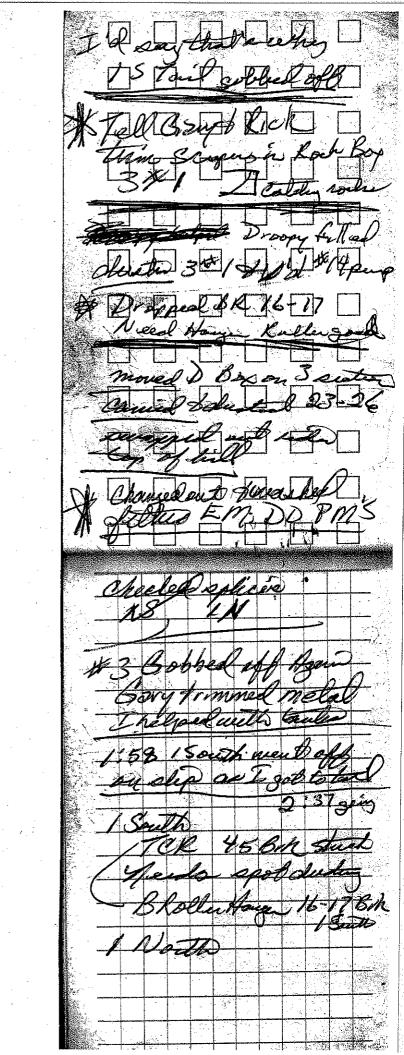




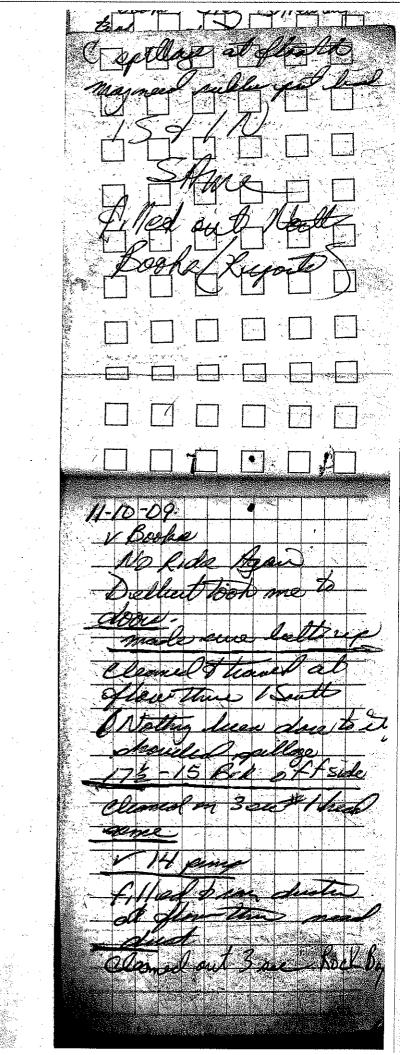


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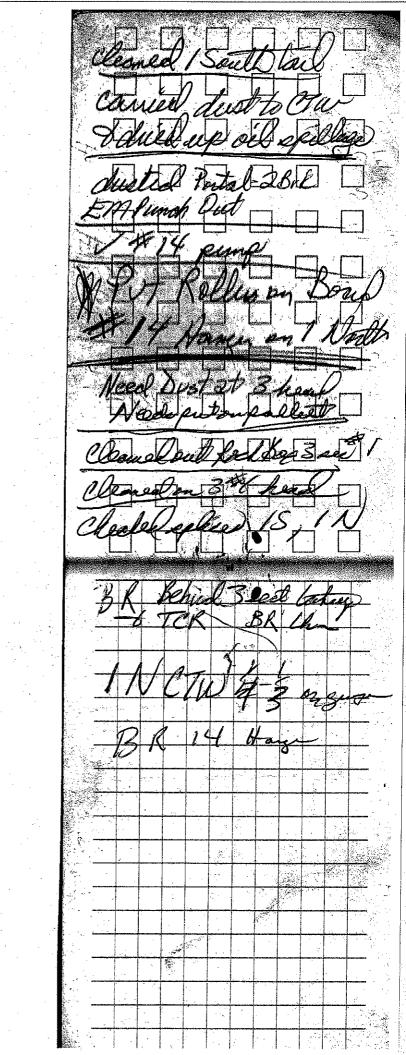




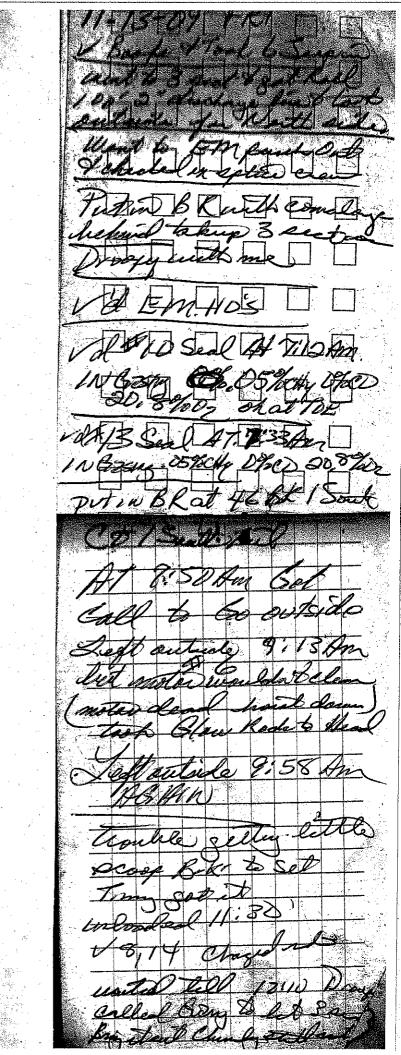
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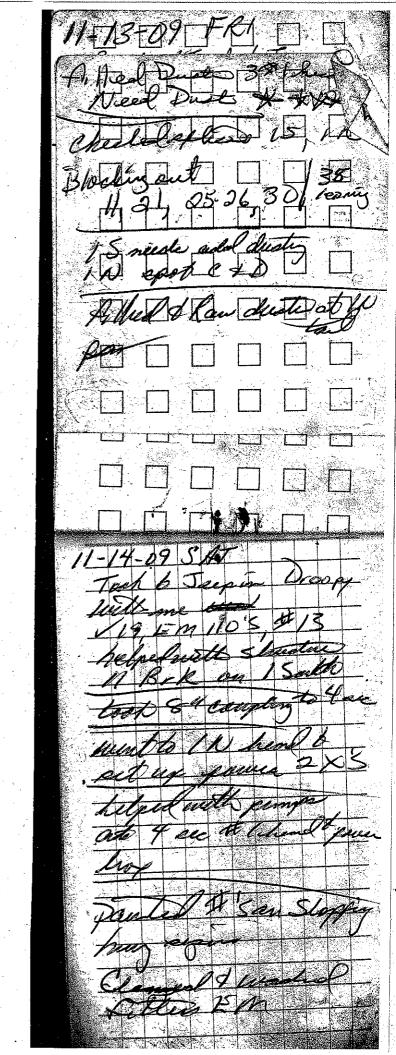


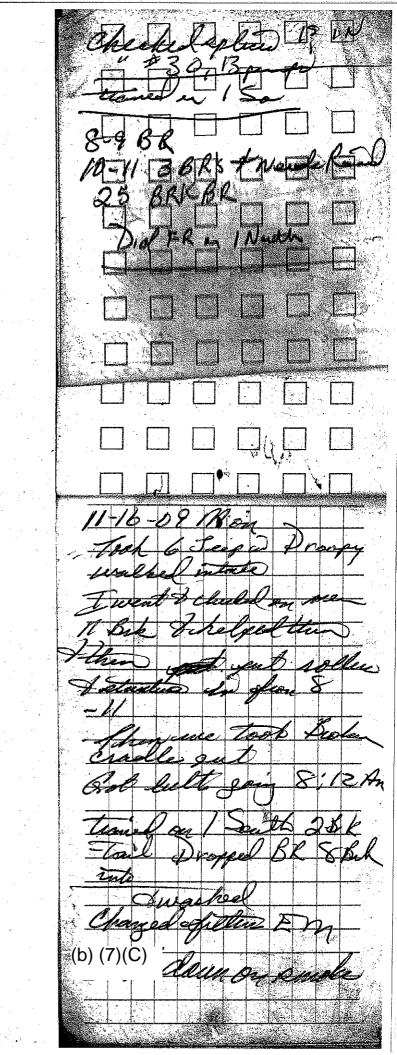
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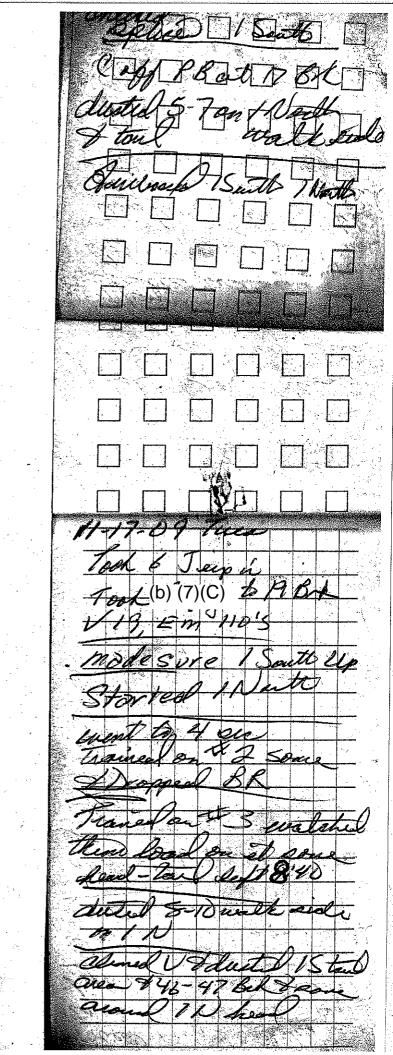


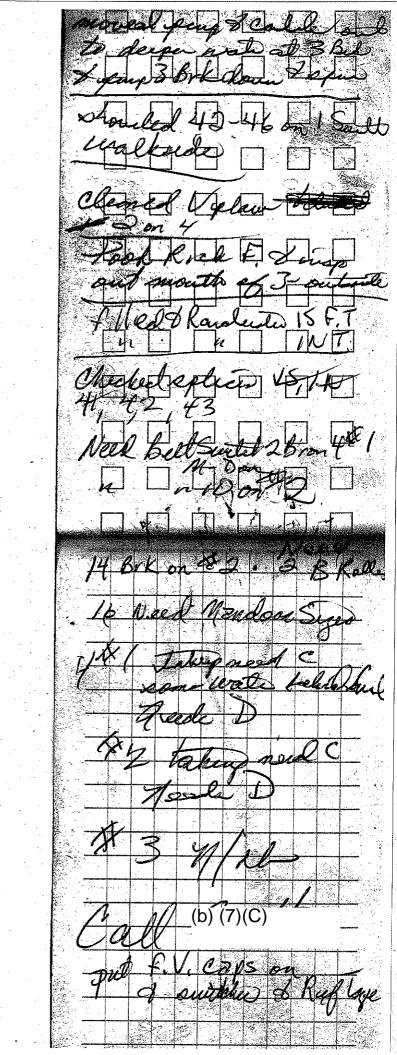
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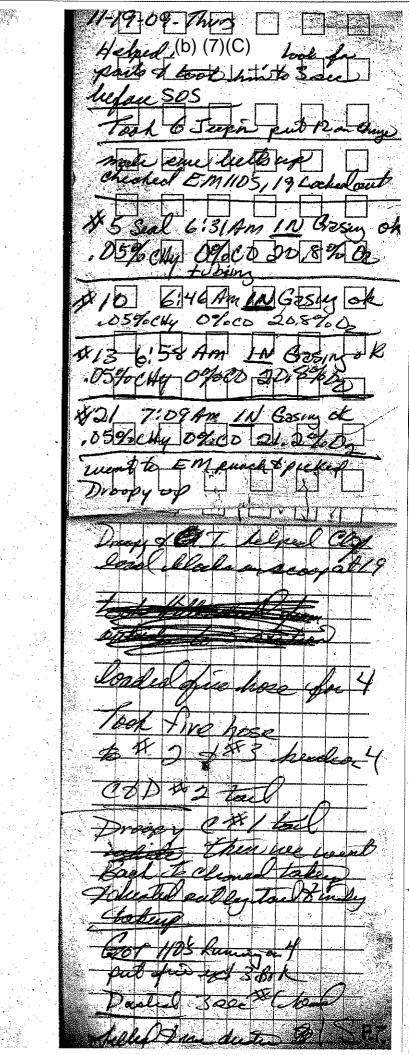








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- \* Conduct an initial survey of the area for any life-threatening hazards.
- \* Do not move the injured person until you have a clear understanding of the injury. Always suspect a spinal injury if the patient is unconscious.
- \* Remember your A B C's: Airway, Breathing and Circulation.
- Send someone to the first aid trailer for needed treatment materials.
- Alert the mine office of the accident and request an ambulance if necessary.
- \* Call for the nearest EMT.
- Open wounds should be sealed or covered with sterile dressings.
- \* Fractures should be immobilized.
- \* Imbedded objects should not be removed.
- Treat the patient for shock.
- \* Keep the patient as calm as possible.
- \* Transport carefully.

### FIRE OR EXPLOSION PROCEDURES

- \* Don SCSR.
- Determine immediately:
- 1. What employees are affected?
- 2. What area of the mine is affected?
- Alert all personnel to assemble at a predetermined location in the intake air.
- \* Turn off the power on all face equipment.
- Turn water sprays off on all face equipment to conserve water.
- Notify the surface by phone or any other communication available during the emergency.
- Call for additional fire fighting equipment and materials.
- \* If the situation is not life-threatening, leave two persons at the communication post and return to the emergency area with all fire fighting equipment available. DO NOT TAKE CHANCES, evacuate if necessary.



### 

- BE SURE methane tests are made
  - \_\_\_ before equipment is energized at the face.
  - \_\_\_\_ before equipment is trammed to the face.
- immediately before welding, cutting, soldering.
- continuously during welding, cutting, soldering.
- at least every 20 minutes (or more often if required when face equipment is operating).
- \* BE SURE methane monitor is operating properly don't ignore or overlook possible monitor malfunction.
- \* DO NOT enter any areas which have not been examined especially idle or abandoned areas.
- \* REPORT any noticeable change in air velocity.
- \* BE SURE line brattice is kept within 10 feet of the face (or other required distance).
- \* REPORT &/OR REPAIR any damage to ventilation controls (crushed-out stoppings, line brattice, check curtains, etc.).
- \* BE SURE water sprays and scrubber (where installed) are operating properly and in use while cutting coal.
- \* BE SURE sufficient area is provided behind line curtains (for sufficient airflow).
- \* BE SURE all air lock doors are kept closed.
- \* DO NOT change or alter any ventilation controls without proper authorization leave as found.
- \* REPORT unusual hissing sounds (methane gas feeders, ventilation tubing leaks, etc.).
- \* REPORT strange odors (rotten egg smell burning sensation in nose/eyes/throat, etc.).

### **GASES**

- 1. Make gas examination test with:
  - 1. Approved Methane detector.
  - 2. Approved flame safety lamp.
- 2. When and where to make gas examinations:
  - 1. Before energizing equipment at the start of any shift.
  - All section working places, returns, returns from pillar lines, and returns from advancing sections.
  - 3. High cavities.
  - 4. Main returns and shafts.
  - 5. At intervals of 20 minutes while operating machinery at the face.
  - 6. Before burning or welding is done.
  - 7. At frequent intervals, examine the exhaust from auxiliary fan for gas.
- 3. Any time 1.5% or more of methane is encountered in the face, de-energize the equipment and reduce the methane content below 1% before resuming operations.
- 4. If 1.5% or more methane is detected in the return split, withdraw personnel to a safe area, de-energize all equipment on the section until methane falls below 1%.

### **ROOF CONTROL HIGHLIGHTS**

- All places shall be roofbolted prior to abandonment.
- \* A test hole shall be drilled in each intersection before reactivating an area that has been idled more than 14 days.
- \* Test holes will be drilled to 12 inches above the anchor zone at each intersection when tension bolts are used.
- \* ATRS shall be no more than 5 feet inby the last row of permanent support.
- \* Mine openings shall not be holed through into unsupported areas.
- Only one pillar corner in a line of crosscuts will be removed, all others will be square.
- \* Falls or excavated areas shall be supported as per plan.
- Bolts shall be installed to within 1 foot of face.

### **VENTILATION PLAN HIGHLIGHTS**

- \* Return stopping maintained to 4th outby crosscut.
- \* Intake stopping maintained to belt tailpiece.
- \* A curtain shall be maintained in all places driven more than 20 feet inby the rib line.
- Diesel Equipment.

Tests for: CO, No<sup>2</sup>, NO.

Twice during shift.

After any corrective maintenance.

Record any unsafe conditions.

\* Methane Tests

Before taking equipment to face.

At 20 minute intervals.

Before energizing equipment at the face after a breakdown.

Before cutting or welding.

- \* 5,000 CFM at end of curtain prior to the continuous miner being used at the face.
- \* Line curtain to be within 8 feet of the bumper at the beginning of the cut and then maintained up to the 2nd row of bolts.
- Water sprays must operate on:

Belt drives.

Other transfer points.

On the bottom belt.

Continuous miners.

# SHIFT FOREMAN

- 1. Employees proper safety equipment task training.
- 2. Fireboss Books proper pre-shifts violations.
- 3. Sections ventilation, supplies, sights, cleanups, rock dust, etc.
- 4. Haulage track, clearance & cables.
- 5. Ventilation overcasts, stoppings.
- 6. Roof Support spacing and materials.
- Electrical fire protection, cables hung, guarding.
- 8. Belts well maintained, clean, rock dusted.
- 9. Water pumps, leaks, sumps, fire protection.
- 10. Battery Charging Stations housekeeping, vented, fire protection.
- 11. Communications telephones, radios.
- 12. Firebossing all areas examined.
- 13. Safety Observations.

### HOUSEKEEPING

- 1. Oil Cans
  - a. Keep all oil cans together.
  - b. Keep rock dust and fire extinguisher there.
  - c. Send all empty cans outside.
- 2. Keeping Equipment Clean
  - a. Avoid all possible oil spillage.
  - b. Clean oil and coal accumulation from all equipment.
  - c. Dirty equipment is a fire hazard.
- 3. Storing Of Materials
  - a. Store supplies in a safe place. (Not under loose top or ribs)
  - b. Stack material so as not to fall or roll.
  - c. Always have walking clearance.
  - d. Store rock dust in a dry place.
  - e. Do not cover small material.
- 4. Place For Tools
  - a. Saves time and tools.
  - b. The right tool makes a job safer.
- 5. Value Of Housekeeping
  - a. More efficient and makes a job easier.
  - b. Prevents injuries.
  - c. Reduce fire hazard.
  - d. More pleasant place to work.

## SECTION FOREMAN

- 1. Employees proper safety equipment task training.
- 2. Portal Bus jack and bar, fire extinguisher, sanders, eyeglasses, etc.
- 3. Mantrip Station high voltage guarded, clearance, etc.
- 4. Supply Cars properly blocked, positive stop block.
- 5. Ventilation faces, last open crosscut, stoppings, curtains, methane tests.
- 6. Roof Control torque wrench, test holes, bolt spacing, loose roof.
- 7. Battery Charging Station housekeeping, vented, fire protection.
- 8. Belt Feeder emergency cord, panic bars, coal and float dust, guards.
- 9. Scoop battery lids secured, plugs locked, panic bars.
- 10. Section Equipment free of coal dust, pre-operational check made, guards, cable, lights, brakes, panic bars, proper tools.
- 11. Dinner Hole escapeway map, first-aid material, cleanliness.
- 12. Safety Observations.
- 13. Power Center mats, cable tags, breaker setting and lock-out procedures, guards, fire protection, ground plugs.
- 14. Beltline clean, rock dusted, belt rollers.
- 15. S.C.S.R.'s inspection location amount.
- 16. Escapeway map, drills, first aid supplies.

### CHECKLIST REMINDER **BELT FOREMAN**

- 1. Employees proper safety equipment task training.
- 2. Transportation jack and bar, fire extinguishers. sanders, brakes.
- 3. Work Area roof support, tripping hazards.
- 4. Beltline splices, blocking, guards, rollers, cleaning, sprays, switches, free of float dust, clearance.
- 5. Belt Drive alignment, guards, fire suppression, deleaning, cables hung.
- 6. Electrical fire extinguishers, mats, cables hung, rock dust.
- 7: Pipe outlets, nipples, etc.
- 8. Equipment well maintained, proper tools.
  - 9. Escapeways inform employees.

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- 1. All sections must have a map posted.
- 2. Following information shall be posted on the map:
  - a. Overcast.
  - b. Stoppings.
  - c. Doors.
- d. Intake escapeway (show to men).
- e. Return and return escapeway (show to men).
- f. Track.
- · g. Belt
  - h. Air flow indicated by arrows.
  - i. Regulator.
- The above information should also be accurately recorded and updated on each foreman's personal projection.
- Each foreman must carry and update his projection daily.
- 5. Post and keep map clean.

#### SIGHT AND RIB LINES

- Take sights properly
- 2. Measure accurately.
- Drive places strictly on sights.
- 4. Properly mark sight and rib lines.
- 5. Paint distance marks.
- Proper advancement of sight points.
- 7. Properly mark for new starts.
- Keep constant supervision to see that places are cut according to plan to avoid gouging and excessive widths.
- 9. Mine according to approved projection only!

# DEGREE ANGLE

#### Performed by:

Section Foreman.

Materials required to complete job:

- 1. Chalk to mark roof.
- 2. Tape measure.
- Rope.

#### Responsibility:

Section foreman is responsible for measuring and showing the initial direction of all crosscuts at the face.

Continuous miner operator is responsible for following the site line according to our approved plan.

#### Instructions to complete job:

- 1. Mark up center line to the face.
- Establish the "point of turn" by measuring the proper distance from the last permanent spad.
- From "point of turn" measure either inby or outby 3 feet.
- From "point of turn" measure 4 feet and strike an arc in general direction of the turn.
- From the 3 foot mark, measure 5 feet and strike an arc intersecting the previous mark.
- 6. This process can be reversed to give a 3rd point.
- Strike a line from the "point of turn" to the intersection of the 2 arcs.

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NEW SITE LINE

POINT OF TURN

#### Planning:

DIRECTION

OF TURN

- The section foreman shall determine according to the mining cycle when to turn a crosscut. He shall then measure the desired distance and direct the proper way to turn.
- The continuous miner operator is responsible for turning the crosscut in the direction shown.

### TURNING A 60 DEGREE ANGLE

of second and a second second

Performed by:

Section Foreman.

Materials required to complete job:

- 1. Chalk to mark roof
- 2. Tape measure
- 3. Rope.

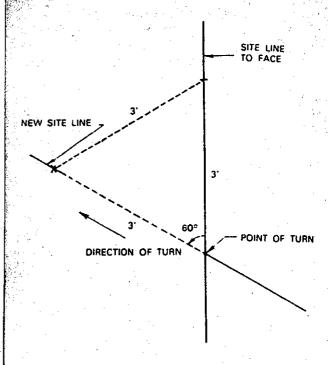
Responsibility

Section foreman is responsible for measuring and showing the initial direction of all crosscuts at the face.

Continuous miner operator is responsible for extending and following the site line according to our approved plan.

Instructions to complete job:

- Mark up center line to the face.
- Establish the 'point of turn' (center of crosscut) by measuring the proper distance from the last permanent spad.
- From the 'point of turn' measure 36" in the general direction of the the turn that is to be made and strike an arc.
- 4. From the "point of turn" measure 36" inby.
- From the point established in previous step, measure 36" in the general direction of the arc that was previously marked. This arc will intersect the first arc.
- Using a rope of adequate length (minimum 10 feet) strike a line from the "point of turn" to the intersection



#### Planning:

- The section foreman shall determine according to the mining cycle when to turn a crosscut. He shall then measure the desired distance and direct the proper way to turn.
- 2. The continuous miner operator is responsible for turning

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Performed by:

Section Foreman.

Materials required to complete job:

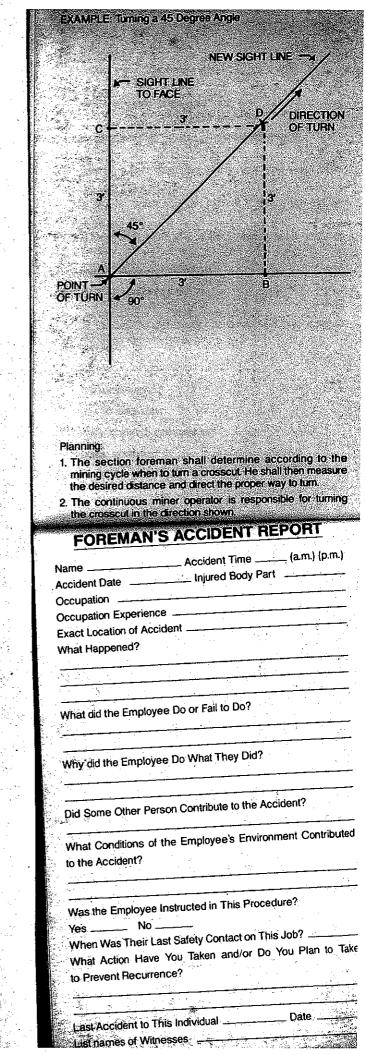
- 1. Chalk to mark roof.
- 2. Tape measure.
- 3. Rope.

Responsibility:

Section foreman is responsible for measuring and showing the initial direction of all crosscuts at the face.

Instructions to complete job:

- 1 Mark up center line to the face.
- Establish the "point of turn" (center of crosscut) point "A", by measuring the proper distance from the last permanent spad.
- Follow the directions for turning a 90 degree angle and mark line on roof.
- Measure 3 feet along 90 degree line and mark point "B".
- 6. Masure 3 feet inby point of turn and mark point "C".
- Strike a 3 ft. arc from point "B" and point "C" in the general direction of the turn, until they intersect forming point "D".
- Connect a line from point "A" to point "D".



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# FOREMAN'S ACCIDENT REPORT

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Accident Date	Injured Body Part
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Exact Location of Accident	
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What did the Employee Do What They Did?  Did Same Other Person Contribute to the Accidents  What Conditions of the Employee's Environment Contributed

Was the Employee Instructed in This Plocedure?

Yes \_\_\_\_\_\_ No \_\_\_\_\_
When Was Their Last Safety Contact on This Job?

What Action Have You Taken, and/or Do You Plan to Take to Rievent Recurrence?

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## FAILURE PROCEDURES

- Do not destroy or alter scene.
- Notify mine foreman.
- Begin investigation.
  - · How long did the violation exist?
  - Is the violation repetitious?
  - Is the violation deliberate?
  - Did Sidney Coal know it's actions violated the law?
  - Is the violation in an area routinely preshifted or inspected?
  - · Was there a failure to report the condition?
  - Did the violation violate company training or policy?
  - Do any records indicate the violation was cured before the inspection, but reoccurred?
  - Do the facts support a conclusion of aggravated conduct?
  - Take all measurements necessary to clarify conditions.
    - Entry widths
  - \* Curtain locations
  - \* Air readings
  - Complete Violation Gravity Sheet.

# REGULATORY INSPECTORS

- Obeying the law is the first and best defense.
- Engage the inspector in a reasoned, professional discussion of the facts.
- Inquire about the purpose of the inspection.
- Accompany the inspector at all times if possible.
- Take notes of situations commented on by inspector.
- Insist on findings (S&S, unwarrantable) be made while observing condition.
- Discuss reasons, basis and hazards caused by any violation noted.
- Arrange for abatement ASAP.
- Follow unwarrantable procedures (if issued).
- Discuss abatement time extension if necessary.

Mine: • Unit/Location
Violation #: • Date of Violation:     General Description of Violation:
<ul> <li>Was this violation preventable? Yes/No?</li> <li>Did/should management have known about the situation? Yes/No?</li> <li>How?</li> </ul>
Was the gravity less than that actually cited? Yes/No? Why?
· Was the seriousness less than that actual
cited?
Yes/No? Why?
<ul> <li>Were actual measurements/samples taker (Examples: widths, bolt spacing, roodusting) Yes/No. If no, why not?</li> </ul>
Other mitigating circumstances? (If pertinent)
1. Air quantity?
2 Rockdusting? 3. Methane?
4. Roadways damp/dusty?
5. Bolt spacing?
6. Roof condition?
Persons to contact for additional information.

A violation gravity sheet must be completed for each citation by the responsible supervisor

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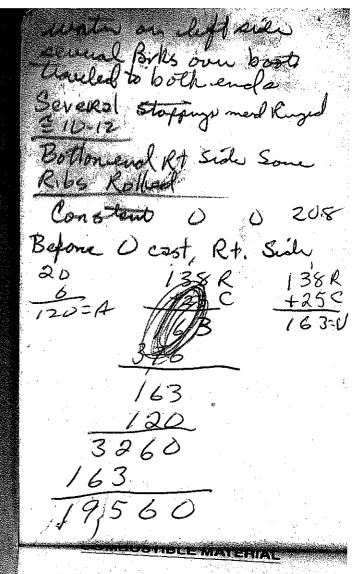
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No smoking articles shall be used or taken underground.

 Float dust, loose coal and combustible materials shall be kept cleaned up and not permitted to accumulate in active workings or on electrical equipment.

 Keep a daily program going for cleaning up all loose coal float dust and combustible materials.

4. Check and keep all water sprays operating properly to counteract float dust.

5. Keep rock dust hoppers full on auxiliary fans to counteract float dust while mining coal.

Bock dust and dampen tramways to keep float dust from accumulating.

No combustible material should be stored on mining equipment.

Clean off combustible material on equipment daily.

All combustible materials must be loaded up and taken out of mine. (Empty bags from rock dust, cement, lunch paper, and broken resin lubes.)

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## INSTRUCTIONS FOR COMPLETING CERTIFICATE OF TRAINING 5000-23

NOTE: Failure to conduct and record training when needed can result in an order to withdraw under 104(g)(t) and the responsible person can be personally sued.

Task Training Job Code — Enter appropriate code from following pages.

Box 1. Print the full name and check number of the person receiving training - do not use nicknames.

Box 2. Check (~) the type of training received - one only. Box 3. Line A - check ( $\nu$ ) the type of operation where the

Line B - check (>) 'coal' Box 4 Insert date training completed

Box 5. Check (r) subjects completed.

All persons who did the training of this employee in this class must sign. If the signature is not legible the name must be printed below the signature

Print mine name, federal mine number, and where Box 7 training was conducted.

Insert the date the employee signs the certificate and have employee sign the certificate. If the employee refuses to sign the certificate insert Employee refused to sign and your initials.

Give the employee the pink copy immediately upon completion of the training.

Continue using and entering codes for task training on the time sheets as before.

Unless otherwise instructed, turn yellow copy of 5000-23 in with time sheet.

Additional forms may be acquired at the Safety Department.

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I, Jimmy Bowyer, have reviewed Exhibit to my investigation
interview given this date, 75 pages, and verify that it is an accurate copy of notes
that I personally recorded and maintained as fireboss at the Upper Big Branch
Mine during the period from November 2, 2009 to December 17, 2009

Date: August 25, 2010

Name: Jimmy Boyer Bowyer JB
Signature (b) (7)(C)