WKMI SAFETY DAYS

PRESHIFT CONTEST

MAY 25, 2017

2017 WKMI PRESHIFT CONTEST

You are the Pre-shift Examiner for the K.C.A. #1 Coal Mine. It is 5:00am Thursday morning. You are to examine the Intake South Seals and a Rock Fall Area in the East Mains.

The #1 entry is the return.
The #2 entry is the supply road & secondary escapeway.
The #3 entry is the main intake and the primary escapeway.
The entries are numbered left to right.

The mine is being ventilated with an exhausting fan. The power is on underground and must remain on (if it is safe to do so) to power a pump in the return, where we have been having some problems with water accumulation. Yesterday's second shift crew was the last ones working, they finished loading out the rock fall. They were late getting out last night because their golf cart broke down. We have a crew coming in today to start bolting on the fall.

The maintenance foreman will be here in the warehouse ordering parts. He is a certified electrician, an MET, and he will be the acting RP if you should need him.

All violations & hazards shall be corrected if possible, if you are unable to correct any violations or hazards it shall be indicated by a danger sign shown on index cards & placed on the mine floor. Any condition found that does not comply with the approved plans will be considered a hazardous condition.

Once you arrive at the field you will have two minutes to prepare then you must start the clock. Once you start the clock you will have 30 minutes to complete the examination.

VENTILATION PLAN

1. Line curtains are required to be installed to within 5' of the face or to the next to the last complete row of permanent roof support.

2. 6,500 CFM of quantity required when coal is being mined cut or loaded.

3. 12,000 CFM of air shall be maintained in the last open crosscut on the working sections at all times.

4. The face of entry shall not be driven more than 40' feet inby the proposed crosscut off that entry.

5. Permanent stoppings shall be maintained up to and including the third 3rd crosscut outby the face on the return side and up to the tailpiece on the intake side.

6. During bolting cycle the line curtain shall be maintained to within 10' of the bumper of the bolter with a minimum of 3,000 CFM at the inby end of the line brattice.

SEAL PLAN

1. The seal shall not be located less than 10' (foot) from the corner of any pillar.

2. Cribs shall be installed both inby and outby within 5' of seal.

3. A water drainage system shall be installed in the lowest elevation seal of the set. These seals are not designed to impound water.

4. The drainage systems must be equipped to prevent the exchange of air through the pipes. A water trap and valve will be installed on the outby side of each drainage pipe.

5. Each seal shall have one non-metallic sampling tube, extending one-half of the expected open space inby the seal as described in 30 CFR 75.337(g)(1). The inby end of the sampling tube will be placed not more than 18" from the roof.

6. The field seal convergence may be measured at the outby roof mid-span using extensometers, "pogo" sticks, or any other approved measuring device.

ROOF FALL CLEAN-UP PLAN

1. This roof fall clean-up plan shall be posted at the work area.

2. All entrances leading to such areas will be "dangered" off where work is not being performed.

3. All persons assigned to perform clean-up work shall be instructed in the clean-up and support procedures.

4. All persons who perform clean-up work shall be experienced in rehabilitation work and be supervised by a certified foreman that is experienced in rehabilitation work.

5. Each approach to the roof fall shall have a minimum of two rows of safety posts on not more than 5 feet centers except; the approach where the roof clean-up process is being conducted.

6. Prior to commencing the clean-up work: the entry that will be used to load out the roof fall shall have 2 crossbars or 2 truss bolts.

7. A gas test shall be made at all accessible approaches to the rock fall area during every preshift examination.

ROOF CONTROL PLAN

1. A minimum length of 60" resin bolt is being used at this mine.

2. Roof bolts shall be installed on 4 X 4 centers to within 5' of the faces.

3. Within 24 hours after cutting a place it will have permanent roof support installed unless there is a power or equipment failure, the area involved shall be dangered off.

4. Maximum cut depth is 20'.

5. Maximum entry & crosscut widths are 18' wide.

EMERGENCY EVACUATION & FIREFIGHTING PLAN

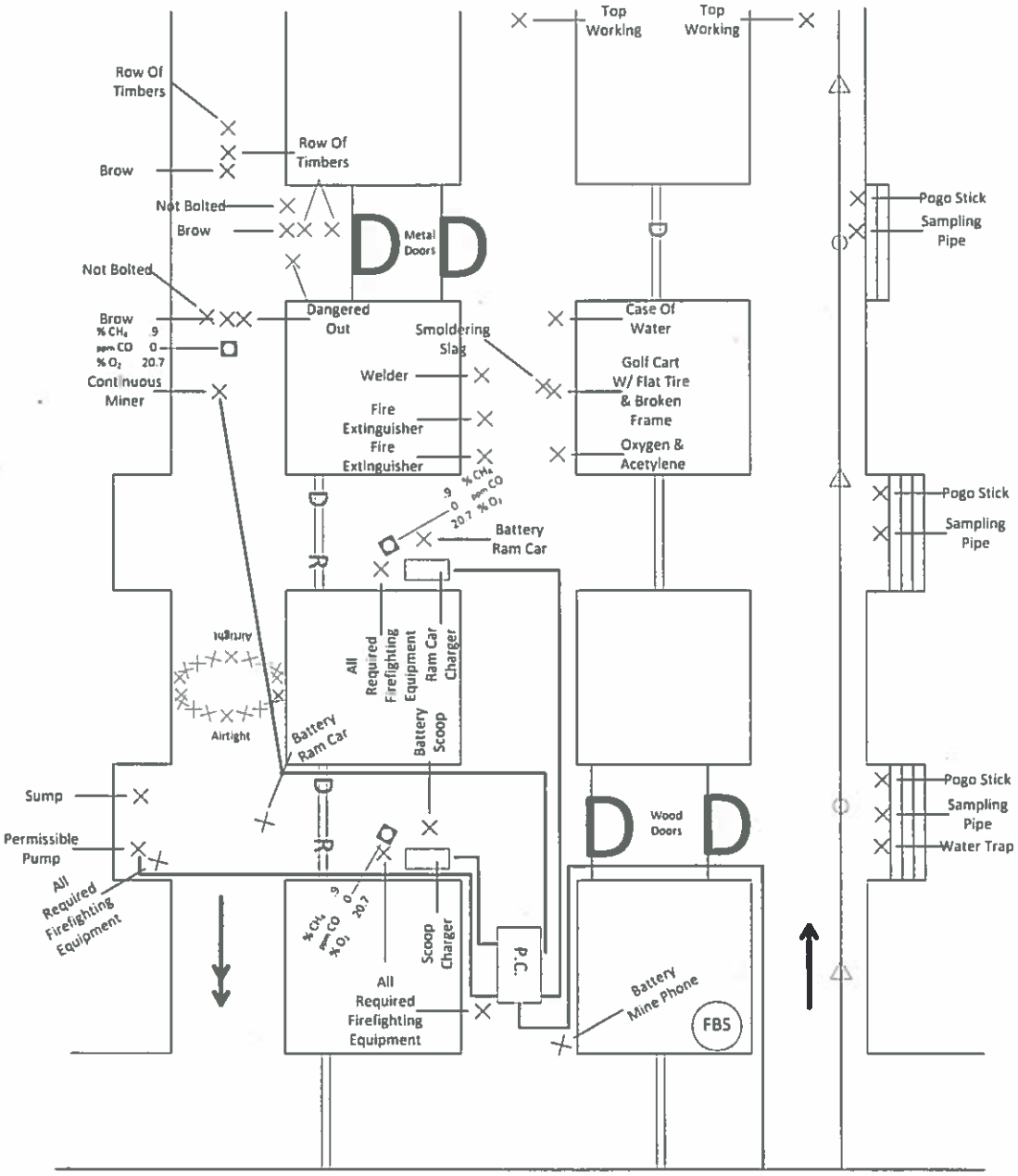
1. All persons shall be trained in the deployment, use and maintenance of refuge alternatives as described in the approved Emergency Response Plan required by 30 CFR 75.1507 & 75.1508.

2. PRIMARY ESCAPEWAY – The primary escapeway is located in the isolated intake air course, the #3 entry, which will typically be on the right side of the belt entry. Green reflectors and directional lifelines also with green reflectors will identify the primary escapeway. The life line will be hung from the roof.

3. SECONDARY ESCAPEWAY – The secondary escapeway is located in the #2 entry. Yellow reflectors and directional lifeline with yellow reflectors will identify the secondary escapeway. The lifeline will be hung from the roof.

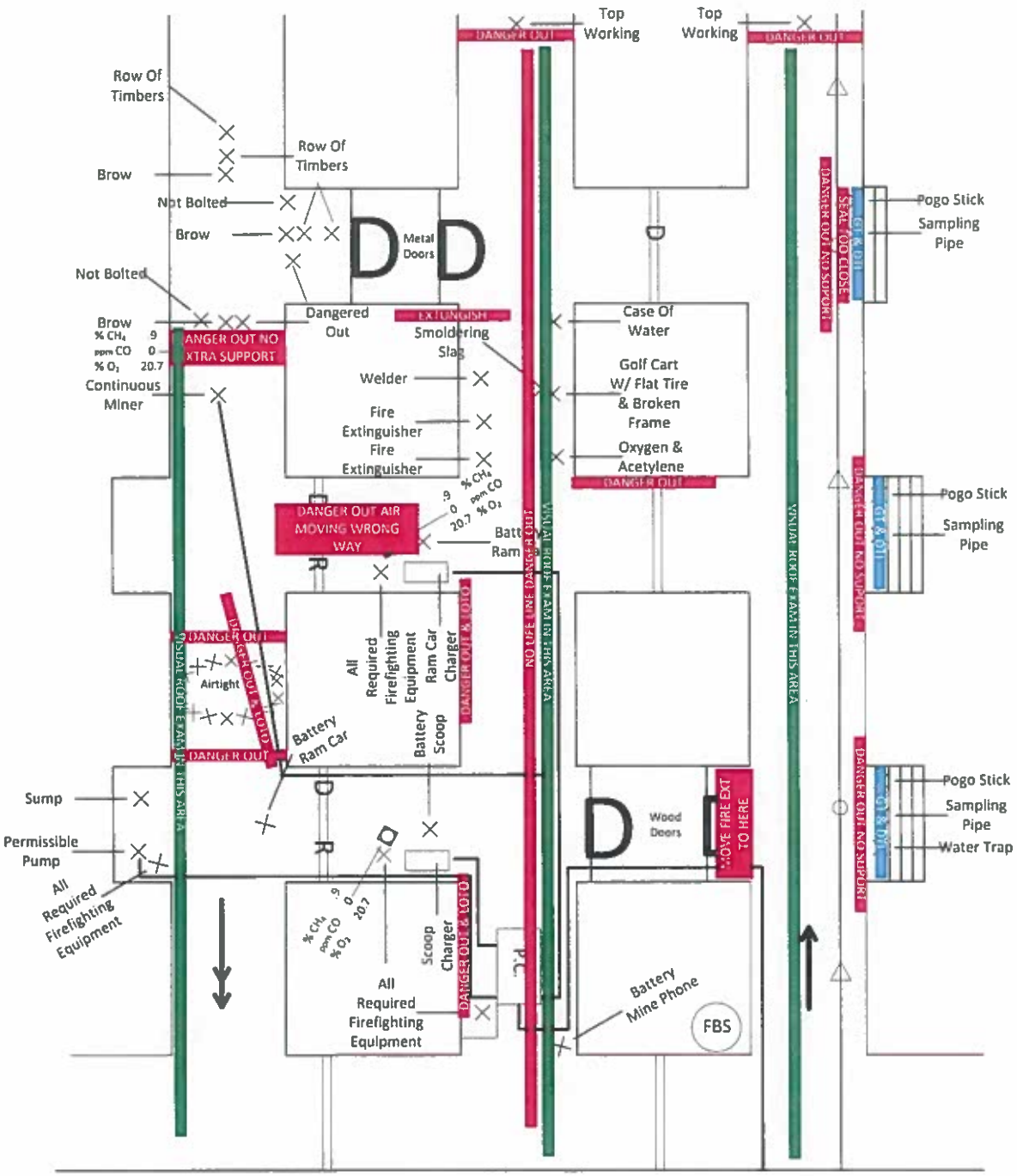
4. At least one mantrip equipped with two one hour SCSR's per miner will be on the section, at all times personnel are on the sections.

5. Each person entering the mine will be provided with an approved one hour SCSR (CSE SR LD, Draeger Oxy K Plus, Ocenco EBA 6.5) or an Ocenco M-20.



TEAM _____

PROBLEM MAP



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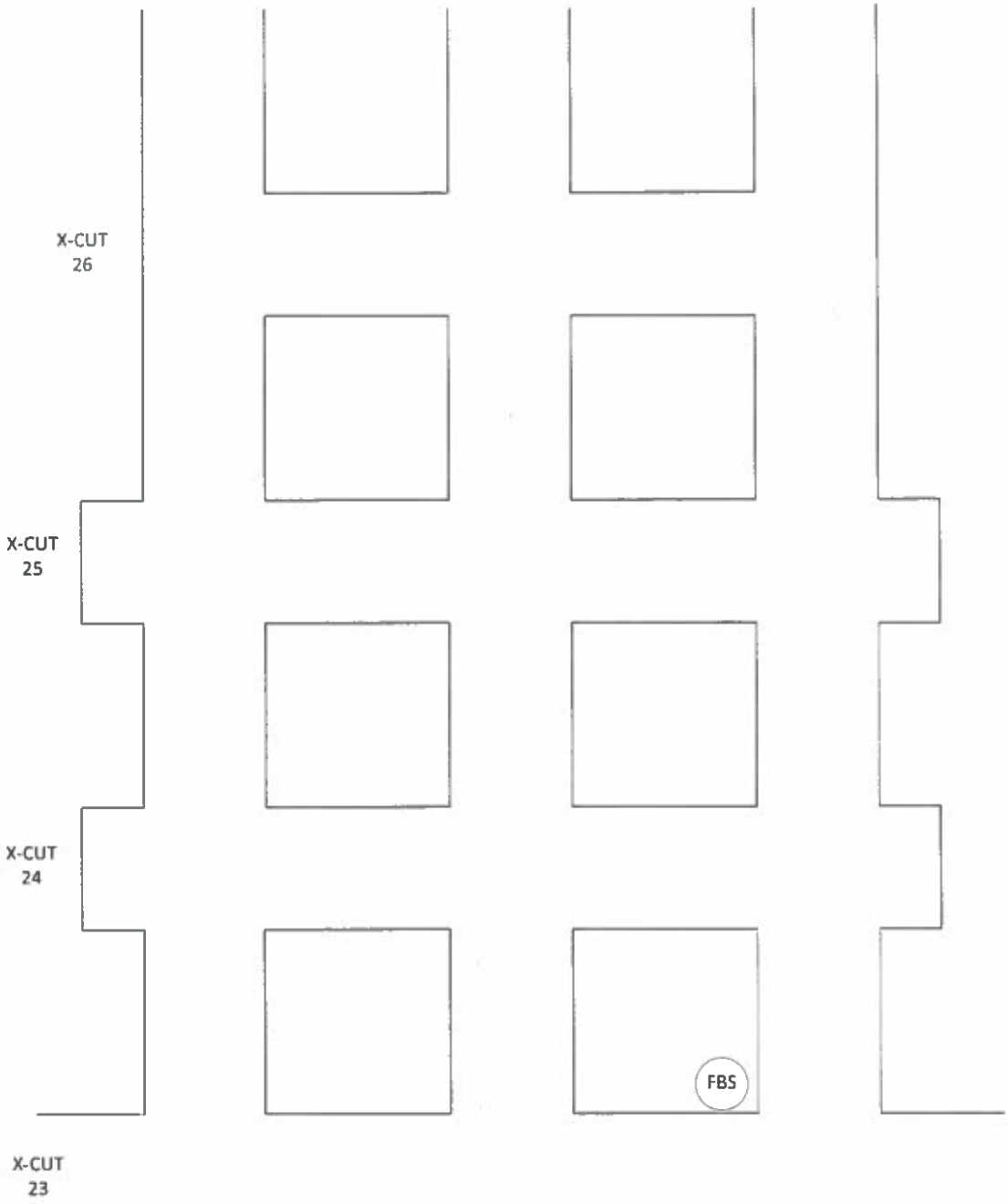

CONTESTANT'S MAP