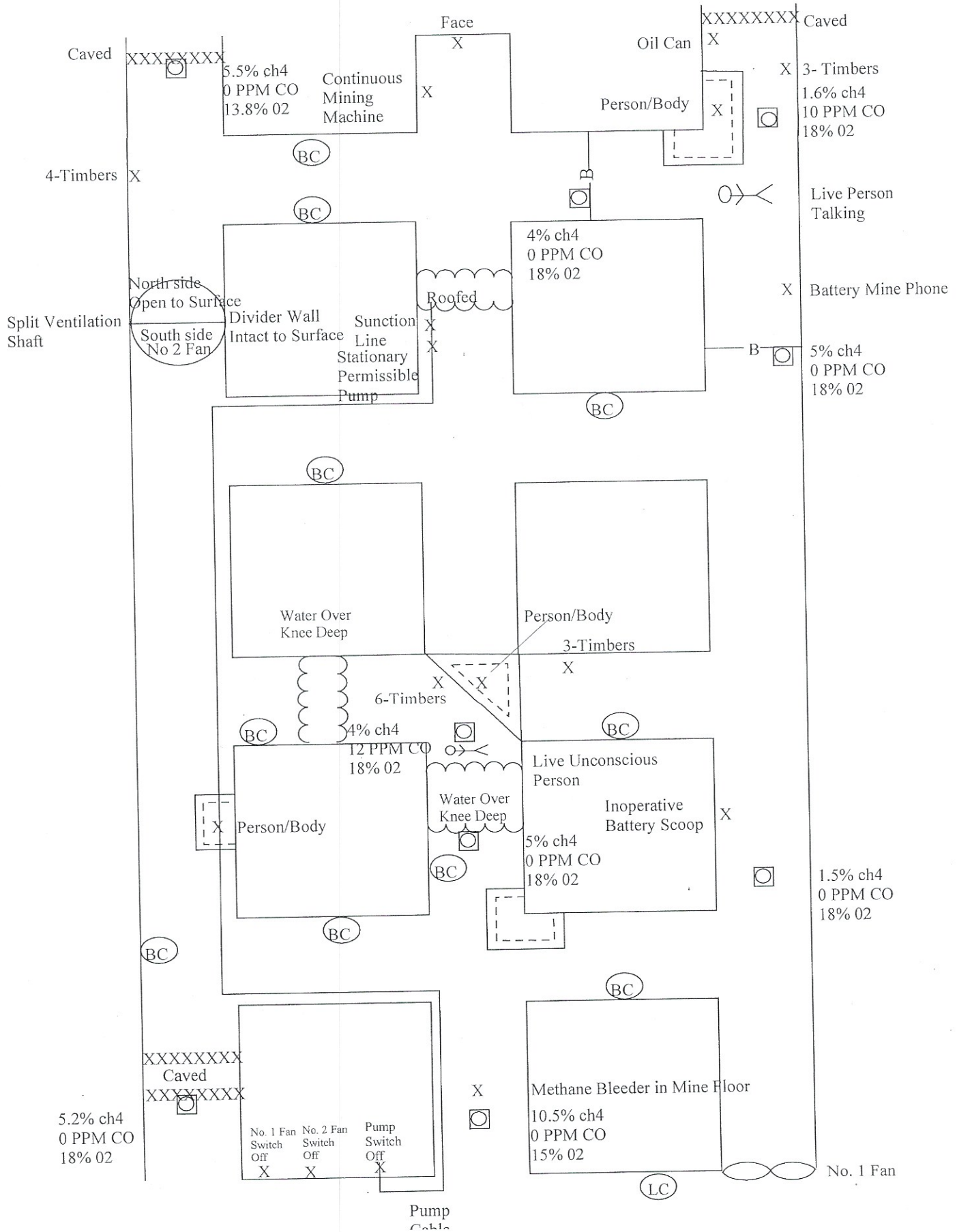


Metinvest 2019 Intercompany Mine Rescue Contest



**Metinvest 2019
Intercompany Mine Rescue Contest
Statement**

Thank you for answering our call for help. We have had a problem at the mine and your assistance is urgently needed. You will be located on the surface of the mine. The mine is being ventilated by two fans, the No. 1 exhaust fan is located on the surface in the No. 3 entry and the No. 2 Blowing fan is located on the surface on the south side of the split ventilation shaft. The North side of the split ventilation shaft is open to the surface. When the No. 1 exhaust fan is operating, it will produce 30,000 cfm. When the No. 2 Blowing fan is operating it will produce 50,000 cfm. Both fans are presently off and can be started if needed by turning the switch on located in the command center. When started, they cannot be turned off or reversed.

Last night at 12:01am 5 men entered the mine to conduct ventilation and maintenance work on the section. At 3:00am one man called the surface reporting that low oxygen had been detected on the section and the crew was feeling light headed. Several attempts to contact the missing miners have been unsuccessful.

The mine does liberate methane gas. Several days ago a methane bleeder was detected in the mine floor in the No. 2 entry. It takes 50,000 cfm of airflow to dilute this bleeder below explosive mixture. If at any time 50,000 cfm of airflow is not flowing across the bleeder in the mine floor the methane will return to an explosive

**Metinvest 2019
Intercompany Mine Rescue Contest
Statement**

mixture immediately. Poor roof conditions have been encountered at times and some water accumulation has occurred from time to time. Presently there is an area in the No. 2 entry that a stationary pump is located that will roof immediately if the pump is not operating.

All electrical power to the underground area of the mine has been de-energized and locked out, power is supplied to the fan and pump switches located on the surface in the command center.

The mine map is not up to date; when more information is obtained, you will be notified.

Both agencies have been notified and are present.

A backup mine rescue team is present to act as your back up

We have a competent lifeline judge available (point out). Two blank maps and the team's written instruction will be provided when you are ready to begin work.

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Instructions

- Rescue all live persons and bring them to the surface.
- Account for all missing miners.
- After the team starts a mine fan, they cannot stop, stalled or reverse the fan.
- A time limit of 60 minutes has been established for this problem. The team will be advised 10 minutes prior to this time limit expiring

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Intercompany Mine Rescue Contest

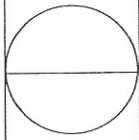
Patient Note Patient “Behind barricade last open crosscut 3
entry)

“ Help, Help, get me out..... ”

Metinvest Intercompany
2019 Mine Rescue Contest

Team #: _____

Split Ventilation
shaft



Divider Wall
Intact to surface

Scale: 1"=10'

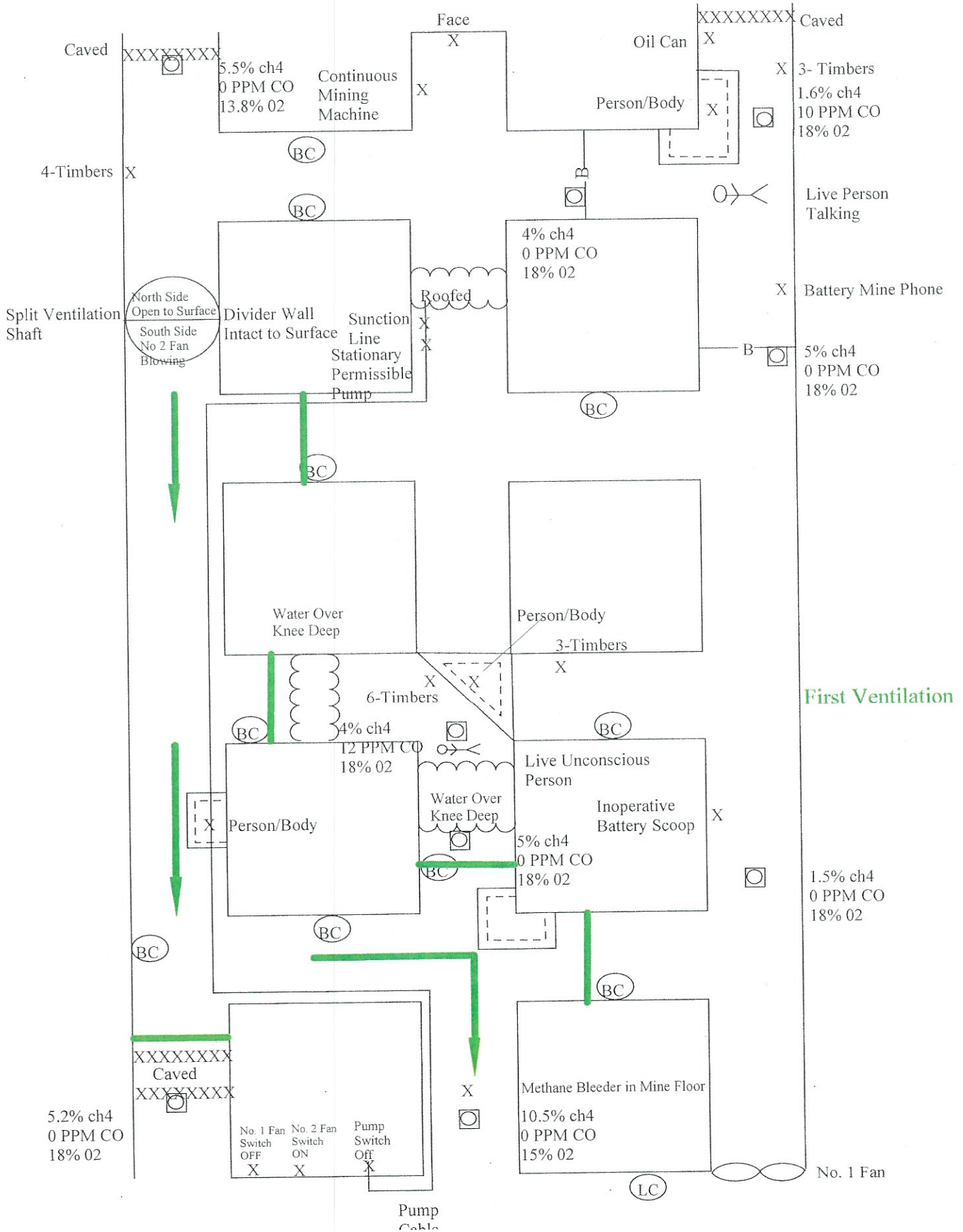
No. 1 Fan Switch	No. 2 Fan Switch	Pump Switch
Off	Off	Off
X	X	X

Pump Cable

Date
Board

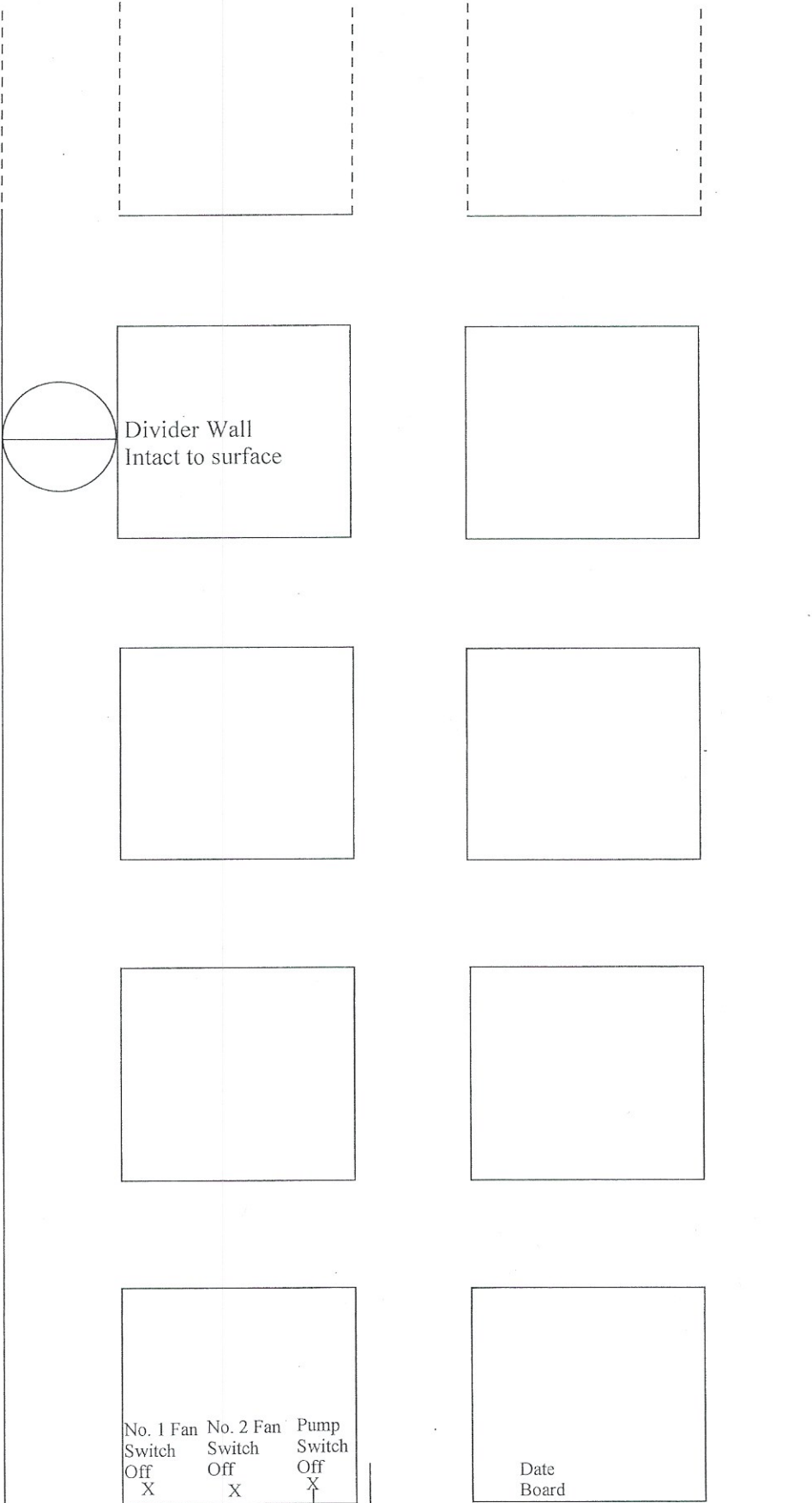
LC

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2019 Mine Rescue Contest

Split Ventilation
shaft



No. 1 Fan Switch	No. 2 Fan Switch	Pump Switch
Off	Off	Off
X	X	X

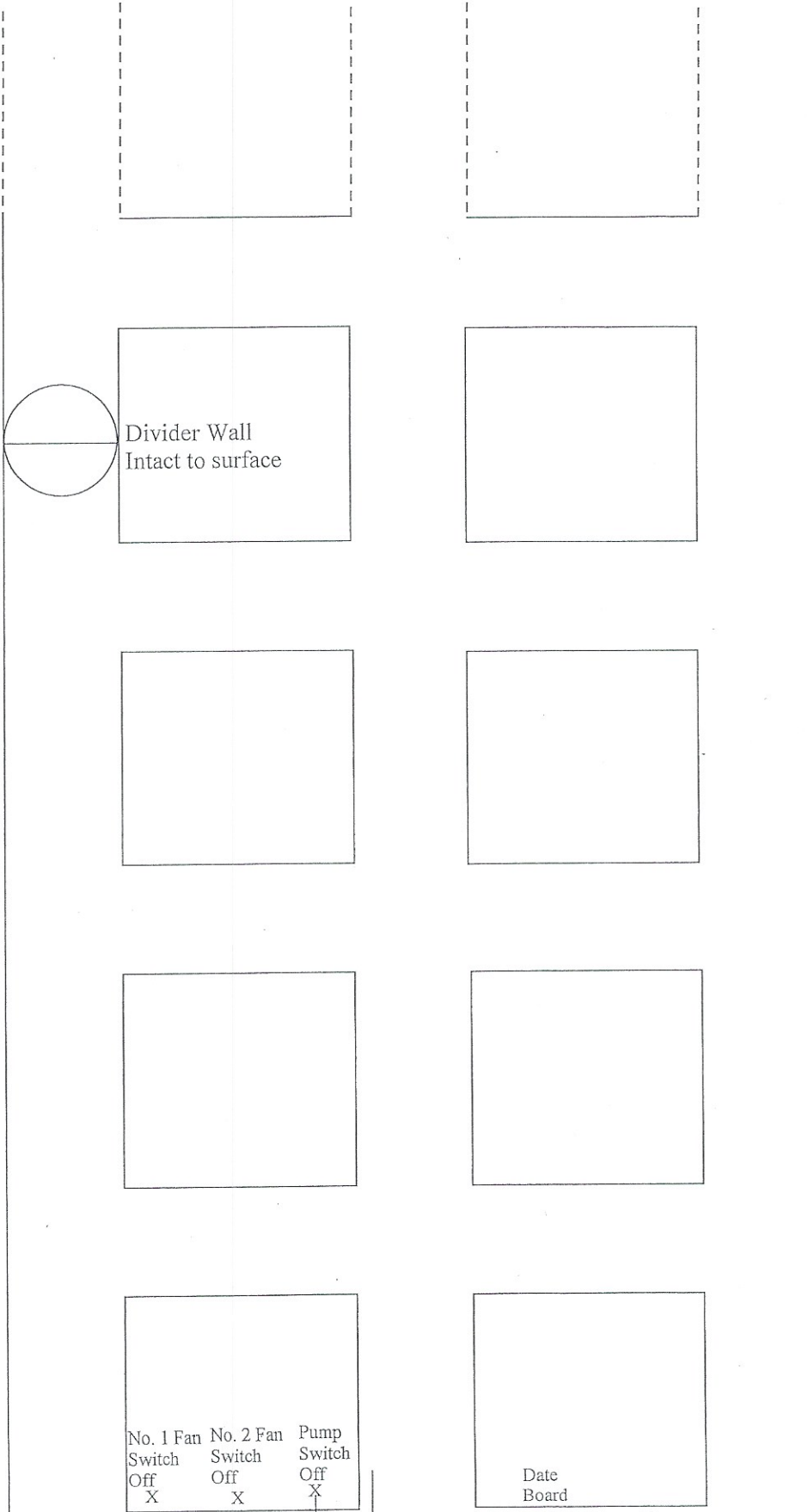
Date Board

Pump Cable

LC

Metinvest Intercompany
2019 Mine Rescue Contest

Split Ventilation
shaft



Pump Cable

LC