#### Joe Latimer

Barrick Goldstrike Mines Inc.

Elko, Nevada

# GROUND MONITORS AND TRIP RELAYS

## Where are ground monitor systems used?

- On all portable and mobile 3 phase mining equipment.
- Wheel mounted, Track mounted, Rail mounted, Skid mounted, or equipment that moves with power on.
- High voltage power distribution.

#### LAWS

National Electrical Code

Code of Federal Regulations, Title 30

#### National Electrical Code

250-188 (a) Grounding of systems supplying portable or mobile equipment.

250-188 (d) Ground-Fault detection and relaying.

250-188 (e) Isolation.

250-188 (f) Trailing cable and couplers.

250-188 (c) Ground-Fault current.

### Code of Federal Regulations, Title 30

Parts 75 (Underground coal) and Parts 77 (Surface coal)

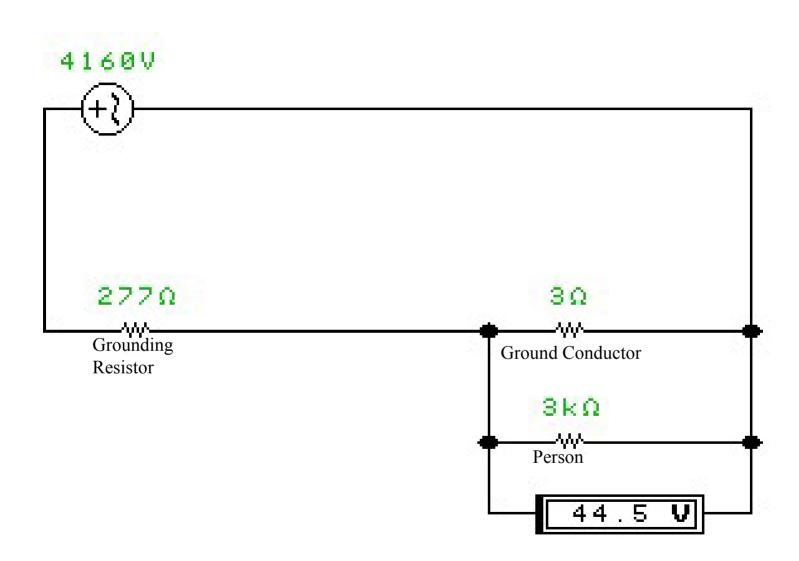
77.803 Fail safe ground check circuits on high-voltage Resistance grounded systems.

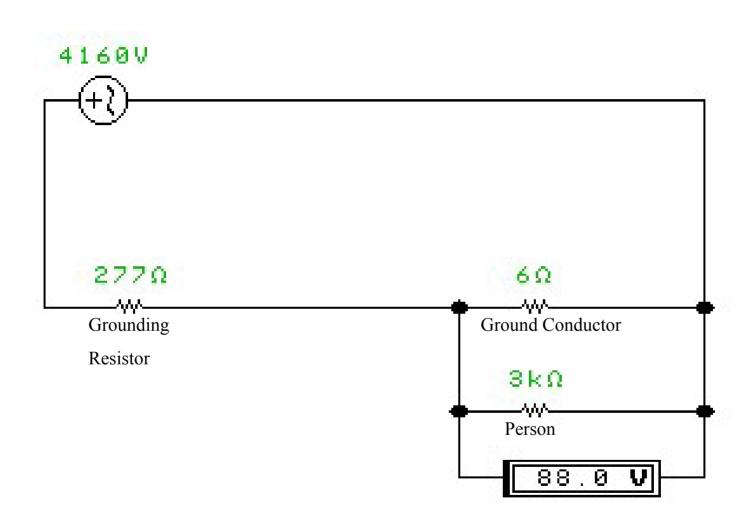
77.902 Low/medium-voltage ground check monitor circuits.

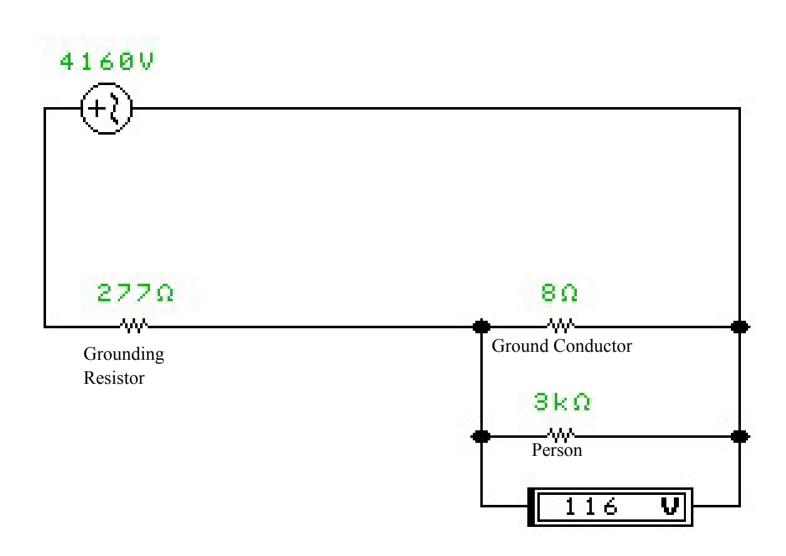
77.900 Low/medium voltage circuits serving portable or mobile 3-phase alternating current equipment.

77.902-2 Approved ground check systems not employing Pilot check wires.

77.801 Grounding resistors.







### Ground Monitors used at Barrick Goldstrike









