

General

The Millwood Mine is an underground single level category III room and pillar Limestone mine, with gas and oil wells in the area. The mine's previous owners abandoned the operation in 1990 and it was idled for 25 years until Golf Mining, LLC purchased the mine and resumed production in 2015. The mine is in Central Missouri and operates two 12-hour shifts per day, 5 days a week – employing 26 miners with a small maintenance crew on weekends. Hours of operation are from 05:00 to 17:00 on day shift and 17:00 to 05:00 on night shift. Hours are usually 07:00 to 15:00 on weekends. Terry Phillips is currently the Mine Manager.

Mine Access

Mine access is provided by one adit. A ladder access is currently being installed to provide secondary egress up the ventilation shaft to the surface but is not yet accessible.

Explosives

All explosives are stored on the surface in an approved storage facility. Explosives needed for day-to-day operation are taken underground via a powder truck as needed.

Electricity

Electrical service to the mine is provided by an independent electric company. Power is provided to transformers located on the surface and distributed to the working areas via power centers underground.

Gas

This mine has been classified as a Category III mine. Due to its proximity to gas wells, explosive gas concentrations may be encountered if there is insufficient ventilation.

Communication

This is accomplished by two-way radios that are carried by mine personnel. Battery pager phones are also present in some areas of the mine.

Ground Control

Ground control is maintained with roof bolts. Timbers are located in areas of the mine for secondary support.

Materials

All materials to work the problem are located underground or on the surface.

Mining Methods

Room and pillar method is accomplished by conventional mining techniques. Material is loaded by front end loaders into haul trucks and hauled to the surface crusher.

Mine Maps

The mine maps were last updated on January 5, 2023.

Mine Equipment

The mine currently utilizes face drills, haul trucks, loaders, bolters, and various utility vehicles for transporting personnel.

Ventilation

The mine is ventilated by a non-reversible 100,000 cfm fan that is located on the surface at the portal. The mine utilizes an exhausting system that enters the mine ventilation shaft and exits the portal. Old workings at the mine have been sealed off due to the limitations of the main fan. The fan controls are located on the surface.

Water

Normal water drainage underground is accomplished with portable pumps. The mine will sometimes have accumulation of water in areas due to power loss or pump failure.

Notification

All federal, state, and local officials have been notified.

Backup Teams

Two additional trained and fully equipped mine rescue teams are on site and are available for backup support.

Team Briefing - Day 2

Thank you for returning to our mine. Last night the back up teams cleared the caved area and established a fresh air base in the western portion of the mine. The teams were unable to continue exploration beyond the newly established fresh air base and there has been no communication with the three remaining miners that are missing.

The main fan has been malfunctioning throughout the night and we are working to restore ventilation. It is currently off and we will inform you when it is operational.

It is now 08:00 and we would like you to continue exploration. The gases are being monitored at the vent shaft and portal. There is power to the mine, and it should be available for use if necessary.

If you are ready and willing, the service of your mine rescue team is still needed. Your objectives are listed below, and the mine manager will be available for any questions or requests. GOOD LUCK!

Field Problem Objectives:

- Explore entire mine and ventilate gas concentrations in all accessible areas if it can be done safely
- Extinguish or seal all fires
- Locate the 3 remaining miners and bring all survivors to surface prior to recovery of any bodies
- Your back up team will relieve you in 90 minutes