

**Escape and Evacuation Plan  
Revenue Mine  
Star Mine Operations, LLC  
MSHA ID No. 05-03528**

In accordance with 30 CFR § 57.11053, as of December 13, 2012, this is the current escape and evacuation plan regarding the conditions and mining system at the Revenue Mine, showing assigned responsibilities of all key personnel in the event of an emergency. This plan and copies of all revisions shall be available to the Secretary or his authorized representative at any time. Also, copies of the plan and revisions thereof are posted at locations convenient to all persons on the surface and underground. The plan will be updated as necessary and shall be reviewed jointly by Star Mine Operations, LLC, Revenue Mine management personnel and the Secretary or his authorized representative at least once every six months from the date of the last review. The plan includes the following information:

Company Name: **Star Mine Operations, LLC**      Mine I.D.: **05-03528**

Contact Person:    **John R. Trujillo**

Title: **Mine Manager**    Phone: **(970) 596- 4082**

**Date: December 13, 2012**

**Assigned responsibilities of key personnel  
in the event of an emergency:**

**John R. Trujillo: Mine Manager**

Mr. J.R. Trujillo will make all the necessary contacts including MSHA, emergency medical services, family's of affected parties, mine owners, local law enforcement and coordinate with mine rescue operations as necessary.

**John E. Trujillo: Surface Superintendent**

Duties include: First Aid, including first aid equipment and supplies, on site coordination with/for emergency personal, implementing safety procedures,

conduct periodic fire drills, fire-fighting equipment maintenance testing and repairs, record keeping, coordinate with mine rescue operations as necessary, training in emergency procedures and liaison from mine site to Ouray & Denver offices. In addition, he will stay in contact with the underground supervisor regarding mine emergency and escape issues.

### **Underground:**

#### **Jack Clark: Underground Superintendent,**

Duties include: First Aid, including first aid equipment and supplies, on site coordination for emergency personal, implementing safety procedures, conduct periodic fire drills, fire-fighting equipment maintenance testing and repairs, record keeping, coordinate with mine rescue operations as necessary, training in emergency procedures. In addition, he will stay in contact with the surface superintendent regarding mine emergency and escape issues.

A Mine map/diagram showing directions of principal air flow, location of escape routes and locations is attached. (Please note: Because the mine is in rehab operating mode access to the major part of the underground workings is off limits). Electric power to the underground workings is via a 4X0 mine feeder cable at 4160 volts. Transformer stations are located at major intersections and the voltage is dropped to 480, 220 and 110 volts as is necessary to operate the various pieces of equipment. The mine map shows these details and is updated to reflect changes every 6 months.

Appropriate portions of the map/diagram will be posted at the mine entrance, underground Revenue tunnel working area where persons congregate.

### **Escape routes:**

Exit signs are posted throughout the length of the Revenue tunnel. "Danger Keep Out" signs are posted at the cross drifts as the rehab progresses to those points. The Yellow Rose drift is posted with the appropriate "Exit Signs" along its length.

**Existing telephones:** Land line phones are located in the main office (970 325-7241), the underground superintendent's office (970 325-7256) and the mechanics shop (970 325-7248). At the present time the miners are using squawk phones in the active working areas **NOTE:** We do have cell phone signal at the entrance gate to the mine site and other locations on the property. We have recently added portable phones at the above numbers that are carried by the on shift supervisors and work anywhere on the surface.

**Primary fans:**

Fans locations are shown on the attached map and as the mine rehab and development work advances additional fans will be added at the appropriate locations.

**Primary fan controls:** The master disconnects are located on the main surface panel and secondary disconnects are located underground near the fan installations.

**Fire doors:**

See ventilation doors section on the mine map and they will also be addressed in the ventilation survey.

**Ventilation doors:**

We utilize an air lock system that consists of two mechanize air doors approximately 400' apart. Fresh air is brought in from the portal side by the vent fans to the first air door and is carried in two 24" rigid duct tubes through the air lock to the second air door. When the fresh air exists the second door it is forced by the pressure of the fans to the back end of the mine and exits out through the connection to the old working of the Virginus mine. These doors are steel and act as fire doors also.

**Refuge chambers:**

During the rehab and development phases we will utilize refuge chambers to meet MSHA compliance. Once we are in the mining /production phase we will have secondary escape ways both in the Yellow Rose drift and in the Monogahela drift. We have a refuge chamber approximately 7000 back' in the tunnel that was used to satisfy the MSHA requirements back in the 1980's and it is being refurbished and outfitted for use. There is another

refuge chamber in the Anglo Saxon cross cut (1620' in from the portal) that is being readied for use.

### **Procedures to show how the miners will be notified of emergency:**

We have installed a stench warning system on the compressed air line entering the mine. The use of this stench system in the 1980's proved to be very effective in all underground workings regardless of distance. The procedure that is in use for the underground personal is that when they smell the stench they are to stop what they are doing, note the time, and make their way to a predetermined location, take a head count and either decide to barricade themselves in the closest refuge chamber or put on their self-rescuers and make their way to the portal.

Currently miners are performing rehab work in the Revenue drift and the Yellow Rose SE drift. And will be working in the Monogahela NW drift shortly. All of this work is on the same level therefore the escape route is the same out as going in by returning back out the revenue portal.

### **Fire Fighting Plan**

Surface:

Currently fire extinguishers are located in the following areas:

- at each of the surface buildings, including shops;
- at the Revenue portal;
- on each piece of heavy equipment;
- on each piece of portable/mobile equipment.

We will conduct regular surface fire drills and ensure that miners are trained in the proper use of the fire-fighting equipment. We also have a gas powered trash pump, with hose and nozzle, at the revenue portal, mine drainage ditch, as additional fire-fighting back up equipment. Note: Plenty of water is always available in the drainage ditch for this purpose.

Underground:

Fire extinguishers are located at or near all working places and on all mobile equipment. Same training drills in accordance with the regulations. Back up

will be the water pump system that is used to drill holes and other activities underground.

**Authorities to contact in event of an emergency:**

**Ouray County Sheriff's Office 970-325-7272**

**Mountain Medical Center 970-626-5123** (Ridgway CO)

**Montrose Memorial Hospital 970-249-2211**

**Ouray County EMS-911 or office 970-325-7275** (ambulance and EMT services)

**Tri State Care Flight dispatch 1-800-800-0900** (helicopter transport out of Durango, CO with paramedic and nurse on board)

**Mine Rescue**

**San Juan Mine Rescue Coop Ridgway CO** Jess Fulbright Coordinator  
**(970)865-2415 Ext. 24; Cell (970)428-7001; Home (970)864-2116**

**Communications:**

The surface crews use VHF radios in all the mobile equipment and transport vehicles and we have 10 portable hand held radios. The base station is located in the main office at the mine. We have a FCC license with 7 channels assigned to us and we have access to the County Sheriff's, Ouray County Road and Bridge, and CDOT frequencies.

**Transportation & Access:**

The mine is reached from the City of Ouray via County Road 361 for 5 miles and then County Road 26 for 2 miles. The County Roads are maintained by a joint venture between Ouray County and Star Mine Operations year around. Star Mine employees are transported to and from the mine site with four wheel drive lite trucks and SUV's with assigned drivers.

### **Emergency Power :**

Electric power to the mine is supplied on overhead lines that are three phase 7200 volts. San Miguel Power Association is the local electric company and Century Link is the land line phone provider. In case of loss of permanent power we are installing a diesel powered backup generator. This generator has been sized to be able to handle all the fans, pumps, heaters and equipment at the mine until the permanent power is restored. There is a 10,000 gallon diesel storage tank at the mine to fuel the standby generator.

### **Location of Mine Rescue Personnel and Equipment:**

Mine rescue personnel and equipment is provided by and available at the **San Juan Mine Rescue Coop Ridgway CO.** Jess Fulbright Coordinator  
**(970)865-2415 Ext. 24;**(b) (7)(C)

Each member of the Coop provides a miner to participate on the mine rescue team. At the present time there are no employees of Star Mine on the team but we anticipate this changing in the near future.

Our backup rescue contact is Bowie Resources Mine Rescue located in Paonia, CO; Contact person: Basil Bear, at: 24 hour number (970) 929-5240; (b) (7)(C)