



File Code: 2810
Date: March 11, 2021

Mike Bergmann
Claimant/ Operator
11086 Golf View Drive
Galena, IL 61036

Dear Mr. Bergmann,

I am writing regarding the Sara Rose Mine Plan of Operations (MPO) (**2810-021210-MPO-2020-006**) for lode exploration and mining related activities on the South Park Ranger District of the Pike National Forest. In my February 16, 2021 letter to you, I informed you that I had signed the Sara Rose Decision Memorandum (DM) and instructed you on the final two steps necessary for MPO approval.

On March 1, 2021, I received your signed Design Criteria that incorporated into Section IV-A the changes and additions that were identified in the DM. Based on your activities and minimal level of disturbance, the Forest Service is the lead bond authority and will be responsible for calculating your reclamation bond. This bond will need to be submitted to and approved by DRMS and the Forest Service in accordance with 36 CFR 228.13, prior to the authorization of your MPO. This bond will be used as a guarantee of faithful performance with the terms and conditions listed in the MPO. As a reminder, the bond can be adjusted during the term of the MPO in response to changes in the operations or to changes in the economy. Also, you may request a partial bond release following completion of the ground disturbing activities (i.e. all but monitoring).

These last two steps conclude the stipulations listed in the DM. Therefore, I have conditionally approved your Sara Rose MPO renewal with my signature in Section IX (attached). Operations are authorized to begin on June 1, 2021, and are authorized for 5 years, with completion of all activities including reclamation by December 31, 2026.

Please be aware, this approval does not constitute permission to conduct activities that require other agency permits. You are responsible for obtaining all other necessary permits prior to operation. Furthermore, approval of this operating plan in no way authorizes, or in any way permits, a release or threat of a release of hazardous substances or pollutants into the environment that will require a response action or result in the incurrence of response costs.

All designs, monitoring plans, and analyses required by the MPO are subject to the requirement of 36 CFR 228.8 that mining operations be conducted so as, where feasible, to minimize adverse environmental impacts on National Forest surface resources. The operator's compliance with this requirement in no way insulates or releases them from any liability or obligations that may arise with respect to its operations under any applicable environmental law, including but not limited to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA),



42 U.S.C. 9601 et seq. The United States reserves its rights and claims under CERCLA to seek performance of response actions and/or reimbursement of response costs that may be incurred as a result of any release or threat of a release of a hazardous substance from the project, or any ancillary operation for the mining activity.

Prior to groundbreaking activities, please contact Geologist Amy Titterington to arrange a field meeting to review the final MPO on site. If you have any questions and/or need clarification regarding the above information, please contact Geologist Amy Titterington at the South Park Ranger District office, by phone at 719-836-2031, and/or by email at amy.j.titterington@usda.gov.

Sincerely,

**JOSHUA
VOORHIS**

Digitally signed by
JOSHUA VOORHIS
Date: 2021.03.11
14:56:41 -07'00'

JOSHUA VOORHIS
District Ranger

Enclosures:

- 1) Approved Sara Rose Mine Plan of Operations, signed March 11, 2021
- 2) Decision Memo for Sara Rose, signed February 16, 2021
- 3) Design Criteria for Sara Rose, signed March 11, 2021

cc: Elliott Russell; Sheila Cross

RECEIVED NOV 30 2020

USDA, Forest Service

**PLAN OF OPERATIONS FOR MINING ACTIVITIES
ON NATIONAL FOREST SYSTEM LANDS**

FS-2800-5
OMB NO. 0596-0022

**USE OF THIS FORM IS OPTIONAL! 1st TIME USERS SHOULD DIRECT QUESTIONS REGARDING THIS FORM OR
REGULATIONS (36 CFR 228A) TO THE FOREST SERVICE DISTRICT OFFICE NEAREST YOUR AREA OF INTEREST.**

Submitted by:


Signature

OWNER

Title

11/19/20
Date
(mm/dd/yy)

Plan Received by:

Amy Titterington

Signature

Geologist

Title

11/30/2020

Date
(mm/dd/yy)

I. GENERAL INFORMATION

- A. Name of Mine/Project: Sara Rose
- B. Type of Operation: Lode exploration and development
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (☐new/☒continuing) operation? (check one). If continuing a previous operation, this plan (☒replaces/☐modifies/☐supplements) a previous plan of operations. (check one)
- D. Proposed start-up date (mm/dd/yy) of operation: June 1, 2021
- E. Expected total duration of this operation: 5 years
- F. If seasonal, expected date (mm/dd/yy) of annual reclamation/stabilization close out: October 15, 2021
- G. Expected date (mm/dd/yy) for completion of all required reclamation: December 31, 2026

II. PRINCIPALS

- A. Name, address and phone number of operator: Red Rock Exploration LLC
- Attn: Michael J. Bergmann
11086 Golf View Drive,
Galena, IL 61036
Phone: (815) 777 - 1982
Email: mike@mikebergmannminerals.com
- B. Name, address, and phone number of authorized field representative (if other than the operator).
Attach authorization to act on behalf of operator. _____

(If more space is needed to fill out a block of information, use additional sheets and attach form)

C. Name, address and phone number of owners of the claims (if different than the operator):

None

D. Name, address and phone number of any other lessees, assigns, agents, etc., and briefly describe their involvement with the operation, if applicable:

Ryce Foster – Mine Manager
Blackhawk, Colorado
Phone: 303 – 582 – 5020
Email: ryce@theriver.com

III. PROPERTY OR AREA

Name of claim, if applicable, and the legal land description where the operation will be located.

MC#	Name	Section	Township	Range
256219	Sara Rose	28	8 South	78 West
272307	Santa Rita	28	8 South	78 West
276331	Sara Ray	28	8 South	78 West
282384	Santa Rosa	28	8 South	78 West
282385	Roja Roca	28	8 South	78 West
282386	Santa Maria	28	8 South	78 West

IV. DESCRIPTION OF THE OPERATION

- A. **Access.** Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and size of vehicles and equipment that will use the access routes.

The Sara Rose group of unpatented mining claims is located in the SW1/4 of Section 28, Township 8 South, Range 78 West on US Forest Service (USFS) lands in Park County, Colorado approximately six (6) miles northwest of the town of Alma at approximately 12,500 feet of elevation.

The Sara Rose mine is accessed from County Road 8 (Buckskin Gulch) onto a non-system access road.

Currently, a locked gate is located approximately 350 feet northeast along the non-system road. The current private mine access trail is accessed through the locked gate and is approximately 10 feet wide and 2,100 feet long with 6 switchbacks and at an approximately 9% grade. The private mine access trail continues to meet the appropriate width for operations. A new, additional locked gate is proposed at the entrance of the non-system road and County Road 8. The attached maps show both the current gate, and the new, additional gate being proposed.

Erosion control measures continue to be used including cut banks, berms, and regular trackhoe maintenance as needed throughout each season. This proposal to continue operations would include regular maintenance with a trackhoe for road stabilization, berm maintenance, cut bank repair and erosion control.

The reclamation plan for both of the non-system road and private mine access trail, is further outline in section H – Reclamation, and includes: backfill, reshape, and reseed as needed at the request and direction of the USFS; access road will be blocked for motor vehicle access using boulders at the entrance; stabilize disturbed sites during and after operations to control erosion and mass wasting; locked gates can be removed or left at the request and direction of the USFS.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

The operator plans to use both All Terrain Vehicles (ATV) and Utility Terrain Vehicles (UTV) for travel on the access road. The locked gates will discourage unauthorized vehicle traffic and trespassing. Additionally, a trackhoe, skid steer, loader and/or dozer will be used to transport supplies, equipment and to actively maintain the access trail throughout the seasonal operations.

- B. **Map, Sketch or Drawing.** Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

Property and topographic maps are attached. The maps illustrate the location of the proposed operations, including the portal, generator, electric panel, laydown area, waste rock dump pile, ventilation fan, compressor, magazine storage, sea can, existing gate, new proposed gate, non-system road, mine access trail, and existing storage shed.

- C. **Project Description.** Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpile, waste rock placement, tailings disposal, proposed number of drillholes and depth, depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities, and the size of runoff diversion channels.

The owner and operator of the Sara Rose mine has proposed continued underground exploration and development on their group of unpatented mining claims. The purpose of the proposed activities is to explore for rhodochrosite and associated minerals. The project is seasonal and would continue as currently approved, generally from June 1 through November 1, unless snow or weather requires proper closing early. The maximum number of working days would be less than or equal to 150 days per year. The maximum number of people on site at any one time would be no more than 6. Generally, the main operating crew consists of 3-5 people. Additional persons on-site would include, from time to time, MSHA, USFS, or other regulatory officials, specialty contractors for underground work, inspections, maintenance or testing.

The process used for continuing the exploration and development phase at the Sara Rose is to identify potential targets, ground support and infrastructure. The process is to drill, blast and remove the waste rock (muck) to the designated area outside of the portal. This process is repeated throughout the season.

All operations on this project will continue to abide by all federal rules and regulations, including those required by the Mine Safety and Health Administration (MSHA). Measures include active MSHA license, approved Personal Protective Equipment, Emergency Response and Evacuation Plan, Ventilation Plan and contracted an approved mine rescue team. The proposed operation meets all current MSHA requirements and has passed multiple MSHA site inspections during the current approved MPO.

The operator of the Sara Rose mine is proposing to continue development of the two existing underground portals on the claim group. The primary access to the main portal is an existing ATV/UTV trail approximately 10 feet wide and 2,100 feet long. The operator plans to continue use of trackhoe and front loader during the year to maintain the access road and also for maintenance of the waste rock dump.

Storage will consist of using 20ft sea can locked shipping containers and the 8ft x 16ft wooden storage shed. This will allow for proper storage of tools, supplies, fuel containment and safety equipment. Lumber, timber, concrete and other materials will be stored on site next to the storage shed and within the laydown area. Lumber, timber etc will properly secured and whenever possible, not stacked higher than 4 feet.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

The original portal entrance and waste rock dump are pre-1950 and have had minimal operations until 2014 upon the approval of the operators previous plan of operations (MPO; File Code 2810). Proper clearing, grading, stabilizing of the workings are ongoing as previously approved. The proposed operations under this application will remain the same with the total disturbance limits as previously approved.

Drilling and blasting is proposed to continue as previously approved for underground mine development and for tunneling a second egress mine entrance/exit to the surface.

Minimal surface disturbance within a small area is anticipated. Additional blasting would be to prospect for underground targets. Blasting materials and explosive magazines will be stored on site at the same location as previously approved under the current MPO and illustrated on the attached maps. Explosives handling will be done by licensed contractor.

Proposed equipment used would be the same as currently being used under the approved MPO: 30 kw generator, tool boxes, timber, air compressor, vent fan, pipe and hardware, ore cars, hoisting equipment, overshot air powered mucking machine, slusher, electric or air trammer, core drills, long-hole drills, jackleg drills, miscellaneous parts and repair kits and tooling.

The amount of waste rock which would be produced over the proposed extension is 25,000 tons; the estimated volume of granite gneiss waste rock is 20,000 cubic yards. The waste rock is primarily Precambrian granite/gneiss with lesser Tertiary porphyry intrusives. These rocks host mineralized vein pockets which often carry crystallized specimens. The waste impoundment resembles the current topography and talus slope. The waste rock generated from this proposed operation would be dumped in the current waste rock dump pile and would generate a very small amount of additional waste rock within a small area of the existing waste rock dump pile; estimated 0.25 acres would be utilized for the new waste rock generated from this proposed operation.

The waste rock will continue to be stabilized by using a trackhoe, dozer, or skid steer. The base of the waste rock dump pile is flat and acts as a sort of bench to catch any waste rock from rolling down the talus slope. The majority of the waste rock material is generally small in size with pieces 1-2 feet wide which helps to stabilize on the waste rock dump pile prior to the benched area.

There is no calculation for procurement of mineral specimens as there is no reliable way of predicting the amount of material that will be encountered. Continued exploration and development are needed to determine any possible future viability of this project.

Reclamation is ongoing; complete reclamation would be conducted within approximately one (1) year of the completion of this project.

There are no settling ponds or significant water discharge at this project. Seasonal and surface water runoff will continue to be diverted by proper grading and reclamation. Additional coverings such as 'tarps' or 'mats' may be utilized as deemed necessary by the NPS. However, the current MPO, and proposed extension under this application not had any significant effect on surface water runoff and diversion.

D. **Equipment and Vehicles.** Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.

This proposal is for a continued use of the same equipment that is currently being used under the approved MPO for

(If more space is needed to fill out a block of information, use additional sheets and attach form)

this project. This equipment includes: trackhoe, 2-5 yd loader, small dozer (650), jackleg and other underground drill tooling, picks/shovels, hammers, air compressor, 15 hp vent fan, 30kw small generator, hydraulic splitter and saw, air or battery powered manchee, air or battery powered loki, hoisting equipment, overshot air powered mucking machine slusher, ore cars, electric or air trammer, core drills, long-hole drills (down-hole and/or conventional) and other miscellaneous required equipment and repair tooling.

Additionally, UTV/ATV will be used as the primary vehicles to access the portal; 4x4 conventional trucks will be used to access the primary trail off of County Rd 8 and parked at either of the locked gate entrances. An estimated 3-4 personal truck vehicles will be on site for the work crew. Trailers will be used to transport ATV/UTV and heavy equipment vehicles from time-to-time as required.

All equipment will be used during the June – October season. Equipment will be removed from site or stored within the locked and secured storage facilities on-site as currently under the approved MPO.

- E. **Structures.** Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipelines, water diversions, trailers, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.

Continued usage of the pre-existing storage shack near the portal is proposed. Additionally, 20ft shipping containers will continue to be used as secure storage structures.

The map shows the location of all materials stored on-site during operations as previous approved under the existing MPO, and includes: primer magazine; powder magazine; storage shack; ventilation fan; electric panel and fan Control; generator; air compressor; laydown yard; waste rock pile and shipping container.

As described above, vehicles aquipment trailers will be stored on site and used from time-to-time during the operating season and removed from site during the off-season.

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

- A. **Air Quality.** Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

Continuing operations under the previously approved MPO does not adversely affect air quality. Access and surface road use may produce minimal-to-no dust from time-to-time. Machinery may produce exhasut while being used, but all machinery being used complies with state and federal exhaust regulations and will not adversely affect air quality. Additionally, vehicles will drive 15 mph or less to help mitigate potential dust.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

B. Water Quality. State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards.

1. State whether water is to be used in the operation, and describe the quantity, source, methods and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.

2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.

3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.

4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.

5. If land application is proposed for waste water disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.

-
- 1) Water will be used for mixing the concrete, using the jackleg drill and other hydraulic tooling. Additional water, if needed, may be used and transported in 50-300 gallon tank up the hill for supplying water.
 - 2) The entire operation is on existing talus slope; currently the backfill, reshape and reseeded will continue as previously approved under the operating MPO. Disturbed sites will continue to be stabilized during and after seasonal operations to control erosion and mass wasting and minimal surface water will be diverted and dissipate into the talus.
 - 3) There is no known discharge from inside the mine; discharge and water permits are in place with the Alma Watershed, City of Alma, Colorado. Seasonal snow melt and surface water occurs outside the mine.
 - 4) Stabilization, grading and seeding will continue to be conducted as needed at the culmination of each season and/or completion of the project as approved under the current MPO. Straw wattles or silt fencing will be considered for either the stockpiles or access trail if additional erosion requires further mitigation measures.
 - 5) N/A
-

C. Solid Wastes. Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including location and design of facilities, or treated so as to minimize adverse impacts.

The amount of waste rock which would be produced over the proposed extension is 24,000 tons. The waste rock is primarily Precambrian granite/gneiss with lesser Tertiary porphyry intrusives. These rocks host mineralized vein pockets which often carry crystallized specimens. The waste impoundment resembles the current topography and talus slope.

All trash and litter will be removed from the property. Any food will be properly contained to eliminate interaction with wildlife, especially bears.

Human waste will be removed from the property. A portable sanitary facility would continue to be used and secured within the storage shed near the portal. This would be removed upon the completion of the project.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

D. **Scenic Values.** Describe protection of scenic values such as screening, slash disposal, or timely reclamation.

No known disturbances to Scenic Values is proposed or identified previously under the current MPO. The mine can not be seen from County Road 8. Waste Rock Impoundment would not be visible unless a person is on the property. Trail access is gated to prevent unauthorized entrance to the property.

E. **Fish and Wildlife.** Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.

Careful reclamation and proper waste disposal will ensure protection of surrounding wildlife and habitat. No known listed endangered or threatened species have been identified during the NEPA process of the current approved MPO. No fish and minimal wildlife are present at the 12,500ft elevation of the property.

F. **Cultural Resources.** Describe measures for protecting known historic and archeological values, or new sites in the project area.

No known cultural resources are known in the project area. A previously completed Cultural Resource Investigation (see Jan 4, 2011 Decision Memo) concluded that the impact of the approved MPO will not affect listed or eligible for listing in the national historic register.

If any cultural resources are discovered during excavation activities, the operator will immediately halt any excavations and contact the USFS for guidance.

G. **Hazardous Substances.**

1. Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, mill, process and laboratory reagents.

Petroleum products for the ATV/UTV and diesel machinery will continue to be used as currently approved under the MPO. Fuel will be transported in appropriate 5 gallon containers and removed after use. Proper fuel containment will be utilized along with fire fighting equipment. ANFO explosives will be used including primers and powder; these materials will be stored in the same secure magazines in the approved locations under the existing MPO.

2. For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fencing), identification (signing/labeling), or other special operations requirements necessary to conduct the proposed operations.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

Primarily unleaded gasoline and diesel fuel (5 gallon plastic containers), motor oil (1 gallon plastic containers) and minor lubricants; MRDS sheets are available onsite for the materials onsite; materials will be transported in approved containers and secured in the bed of the UTV/ATV or trucks used for the transportation. During the operations, any fuel or similar materials will stored within a contained area at the storage shed.

Explosive materials, primer and powder, will be transported in secure magazines and stored at the currently approved locations. There is a specific location for the primer magazines that is a safe distance away from the powder magazines. Neither of these locations is anywhere near the fuel storage locations.

3. Describe the measures to be taken for release of a reportable quantity of a hazardous material or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.

Fuel containment and berms are used to mitigate spill risks for fuel and oil substances. Additionally, spill pans and absorbant pads are available on site for prevention and containment. All petroleum and fuel products will be stored in their designated and approved containers.

H. **Reclamation.** Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations, and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludges which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plans.

Reclamation will be conducted upon the completion of the project. Due to the seasonality of the project, proposed activities would continue to be conducted May through October, the same as the current MPO. All work is being planned for the summer and fall months with adequate time for any immediate reclamation needs prior to seasonal winter snowfall. All required reclamation would be completed no later than 1 year after the completion of the proposed project

The following outlines plans for reclamation:

- 1) Backfill, reshape, and reseed as needed all holes, pits, excavations and trails associated with the operations
- 2) Stabilize disturbed sites during and after operations to control erosion and mass wasting
- 3) Remove all trash and litter from NFS lands
- 4) Remove all temporary structures from NFS land; exception of pre-existing storage shed
- 5) Complete all reclamation within 1 year of the project's completion of operations
- 6) Break-up and disperse cut banks in the access trail;
- 7) Block and restrict motor vehicle access by placing boulders at the entrance of the mine access trail and non-system road; gates can be left or removed at the request and direction of the USFS
- 8) Earth work, which includes backfilling, re-contouring and smoothing, will be completed with no rough piles higher than 12-24 inches
- 9) Divert surface run-off water from disturbed areas
- 10) No trees will be removed in association with the current and proposed operations

The portal will be reclaimed at the request and direction of the USFS. The Colorado Division of Mine Reclamation and Safety has inquired about sealing the portal for reclamation to avoid any entrance to the underground mine workings. This would allow the portal to remain as a historical resource and not be destroyed or removed entirely.

The operator proposes to block access by barricading the inside entrance to the portal with waste rock and then sealing the heavy steel door by welding it closed. Currently, the entrance is blocked by a double-gated and steel door.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

Revegetation will only be used where deemed necessary by the USFS. Due to the steep talus slope, there is minimal vegetation in the affected project area. Seeding can be done at the request and direction of the USFS. If seeding is required, the appropriate seed mixture and seeding process will be followed.

Erosion has been successfully controlled by berms, cutbanks and constant maintenance during the operating season. Additionally, straw wattles or silt fence may be used if needed to contain any reclaimed portions to avoid possible future erosion.

The non-system access road and mine access trail will be reclaimed as required. The current proposal is to block the entrance with boulders to restrict motorized vehicle access. The current gates will be removed unless requested to leave in tact. Additionally, grading and recontouring of the access trail to blend into the current talus slope is proposed. No reseeding is proposed as the current talus does not seem to support grass. However, reseeding will be done wherever the USFS requires by using the appropriate reseeding mix and procedure. Likely the first few hundred feet on the non-system access road may require seeding. No noxious weed control is known to be required for reclamation, unless directed by the USFS.

VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

A. Required changes/modifications/special mitigation for plan of operations:

(If more space is needed to fill out a block of information, use additional sheets and attach form)

- B. **Bond.** Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. _____, dated (mm/dd/yy) _____, signed by _____ (Principal) and _____ (Surety), for the penal sum of _____. This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations.

Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

VII. TERMS AND CONDITIONS


- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.
- D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.
- E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- F. This plan of operations has been approved for a period of _____ or until (mm/dd/yy) _____. A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

(If more space is needed to fill out a block of information, use additional sheets and attach form)

VIII. OPERATING PLAN ACCEPTANCE

☐ I/We have reviewed and agreed to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements.

☐ I/We understand that the bond will not be released until the Authorized Officer in charge gives written approval.

 _____
☐ Operator (or ☐ Authorized Representative) 11/18/20

(Date)
(mm/dd/yy)

IX. OPERATING PLAN APPROVAL

Josh Voorhis _____
(Name) District Ranger

(Title)

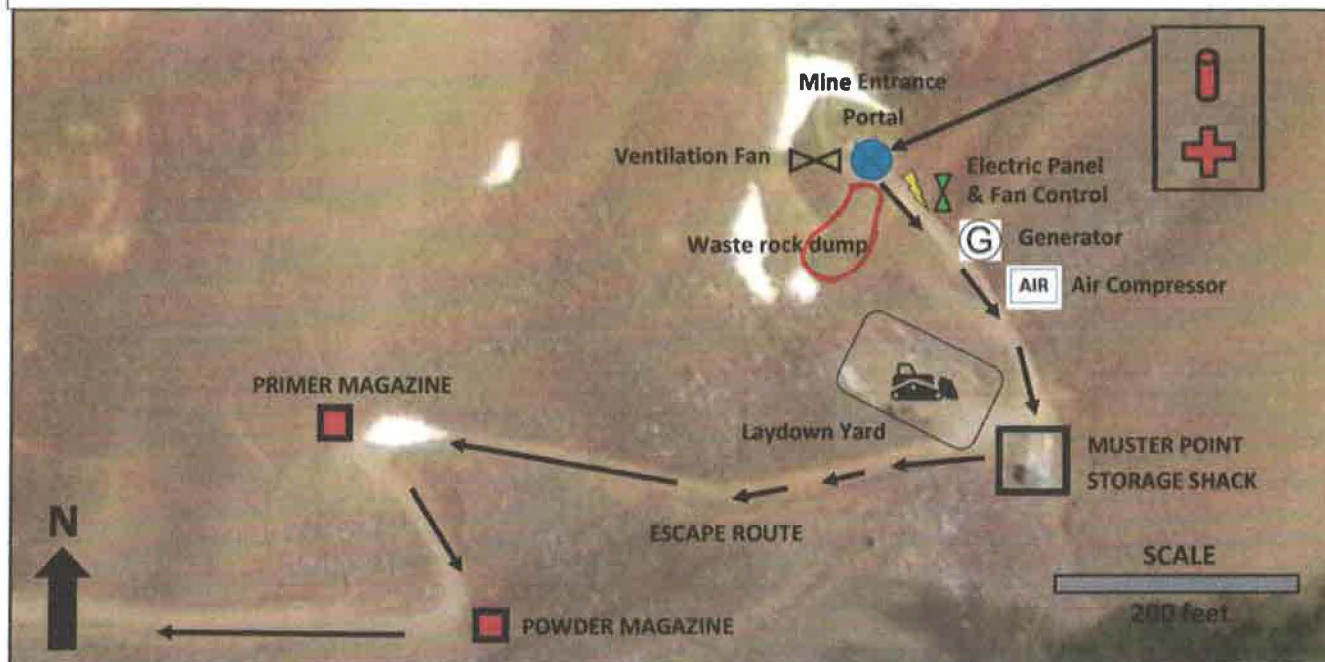
John S Voorhis _____
(Authorized Officer) 3/11/2021

(Date)
(mm/dd/yy)

"According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB number. The valid OMB number for this information collection is 0596-0022. The time required to complete this information collection is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information."

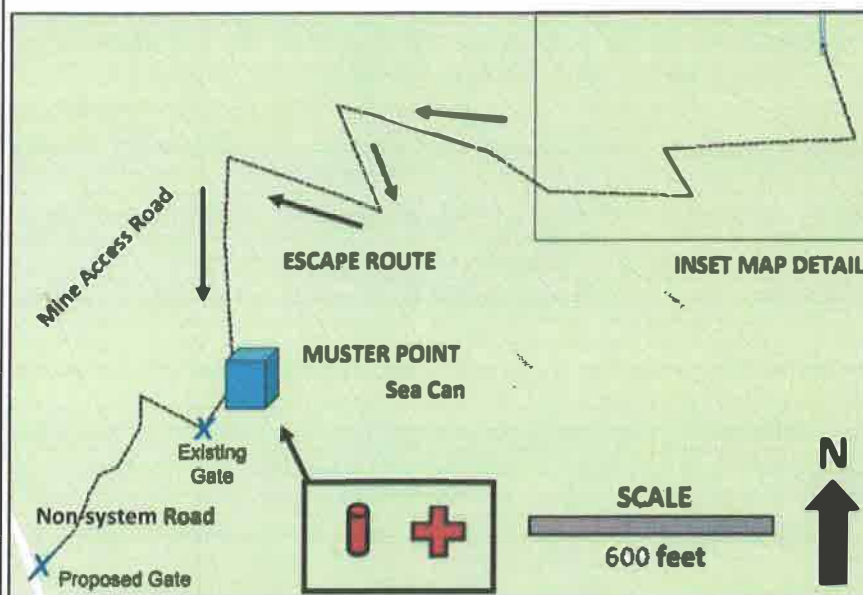
(If more space is needed to fill out a block of information, use additional sheets and attach form)

**Sara Rose Mine
Surface Plan Map
September 2020**



LEGEND

- ↓ ESCAPE ROUTE
- STORAGE SHACK MUSTER POINT
- MAGAZINE STORAGE
- ⌵ FAN CONTROL
- ⌵ VENTILATION FAN
- ⊕ FIRST AID
- 🔥 FIRE EXTINGUISHER
- 🚢 SEA CAN MUSTER POINT
- ⚡ ELECTRIC PANEL
- Ⓜ GENERATOR
- 🌬 AIR COMPRESSOR



Design Criteria for Sara Rose Mine Plan of Operations
February 2021

DESIGN CRITERIA

Forest Service wildlife biologist, aquatic biologist, botanist, hydrologist, archaeologist, fuels and fire specialist, and geologist have reviewed the proposed project. Measures necessary to protect threatened or endangered species, Region 2 sensitive species, their habitat, or potential habitat from the effects of the proposed management actions are addressed through the development of project design criteria. Design criteria are intended to minimize the project's effects to the environment. The FS has created the following design criteria that will be required of the Operator to be incorporated into the final MPO prior to MPO approval. Specific design criteria include:

ADMINISTRATIVE

- The operator will establish a reclamation bond or acceptable surety as a guarantee of faithful performance with the terms and conditions identified in the reclamation requirements (36 CFR 228.13). Bond calculations will be based on local and Davis-Bacon wage and equipment rates. Bonds will be updated as necessary throughout the life of the project to reflect the actual cost of reclamation.
- Upon completion of the project, a partial bond can be refunded withholding funds for re-vegetation, monitoring, and portions of indirect costs for a minimum of three (3) years pending attainment of acceptable ground cover as determined by the Authorized Officer.
- If the design or location of this project changes in ways that differ from the approved MPO, the project work will stop, and the PSICC Geologist will be notified immediately. The new information will be evaluated prior to the recommencement of work, which may require additional analyses under the National Environmental Policy Act (NEPA).
- The operator will contact the FS prior to the start of operations, during operations if operating conditions or requirements deviate from those analyzed, and once operations have been completed, to schedule a visit to the site as a final inspection of the operations.
- All project-related materials and trash, including flagging, fencing, stakes, sample bags, and other items, must be removed from the site after project completion.
- This plan has been **approved for a period of 5 years, or until December 31, 2026.**

FIRE PREVENTION

- All internal combustion engines including but not limited to generators, mechanized mining equipment and power tools, must be fitted with an approved spark arresting device.
- Operator has tools, fire extinguisher on site and readily available during fire season.
- Operator notifies South Park Ranger District or Pueblo Dispatch (719) 553-1600 promptly, in the event of a fire.

CAMPING

- Overnight stays and leaving vehicles on the Forest are limited to a maximum of 14 consecutive days and no more than 28 days in a 60-day continuous period.
- Forest Service Motor Vehicle Use Map (MVUM) related regulations require vehicles to park only in areas immediately adjacent to National Forest System roads.
- All foodstuffs will be properly contained and located to minimize conflicts with wildlife, especially bears. Food items should be stored in a bear proof container away from any tenting or camping sites.
- All trash and garbage will be removed from National Forest Lands.
- Human waste shall be removed from National Forest Lands.

OPERATIONS

- Equipment and tools must be in good working order and not leak fluids onto ground.
- Inoperable or broken equipment/ tools must be immediately removed from Forest Service lands.
- Explosives shall not be stored on National Forest Lands unless the operator has proof of obtaining a type I and II explosives permit from the State of Colorado Department of Labor and Employment Division or Oil and Public Safety.
- Explosives shall not be abandoned. Operator shall remove explosives from National Forest Lands when not in use.
- Blasting must not create hazardous surface conditions including rock or snow slides.
- Overburden and waste rock must be stored in designated areas. Overburden and waste rock must be placed in a stable manner as to not create hazardous conditions down slope.
- Mine openings shall not discharge water. Should underground activities encounter water, the Forest Service must be promptly notified. Operator shall terminate any activities causing water to discharge to surface.
- Trash shall be promptly removed from Forest Service Land and not stored.
- Operator must have all applicable Federal, local, and State permits in place prior to operating.

ROADS

- Motorized off-road travel is prohibited except for prospecting, mining and reclamation equipment.
- Break up and disperse cut banks on the access route.
- The Operator does not have permission or authority to perform maintenance or reconstruction on National Forest System Roads.
- The non-system access road will be permanently raked, graded, seeded, and closed with boulders or other appropriate materials upon the completion of final site reclamation.

WEED PREVENTION

- Ensure all equipment (including vehicles) and tools moved onto National Forest System lands are free of soil, seeds, vegetative matter, or other debris that could contain or hold noxious weed seed.
- The operator will coordinate with FS personnel to ensure that inspections are performed.

VEGETATION

- Minimal vegetation clearing will occur. When clearing vegetation, straight clearing limits are voided; a natural appearance is maintained. Natural features such as large boulders, rock outcrops, and significant vegetation will remain intact, unless otherwise approved by the South Park District Ranger.
- Topsoil will be removed and stockpiled on site for use in reclamation.

HAZARDOUS MATERIALS

- The operator will ensure that all employees involved in the use, storage, transportation, and disposal of hazardous materials receive proper training to reduce the risk of an incident on NFS lands.
- The operator will manage the use, storage, discharge, or disposal of pollutants and hazardous or toxic substances generated in compliance with applicable regulations and requirements.
- In the event of a petroleum spill or other hazardous material spill, immediately notify the National Response Center at 1 800 424-8802 and Park or Teller county sheriff. If hazardous substances are spilled on federal, state, or county roadway contact the Colorado State Patrol.
- All hazardous material spills will be disposed of according to Colorado Sate Hazmat disposal guidelines

WATER QUALITY

- If excessive gulying or rilling occurs downhill from excavations, erosion control measures such as silt fencing or contour berms may be necessary to protect water quality.
- Water bars will be cleaned out on an as-needed basis to minimize erosion on access roads.
- Operator will comply with applicable Federal and State water quality standards, including regulations pursuant to the Federal Water Pollution Control Act, as amended (33 USC 1151 et seq.).
- Operator will comply with National Best Management Practices for Water Quality Management on National Forest System Lands. This includes providing silt fences, waddles, and straw bales as necessary.

http://www.fs.fed.us/biology/resources/pubs/watershed/FS_National_Core_BMPs_April2012.pdf

CULTURAL

- If a previously unknown archaeological site is discovered by either the operator or the Forest Service, mining operations will stop immediately until the site is evaluated by the Forest Service Archaeologist, and any needed mitigation measures are developed.

WILDLIFE

- If any new nesting/denning sites for threatened, endangered, or Forest Service sensitive species are observed during implementation, it will be reported immediately to the wildlife biologist and appropriate protection measures will be implemented.
- Design criteria mentioned above for weed prevention, vegetation and water quality all

coincide with protection of wildlife habitat.

RECLAMATION

The operator'(s) agree to complete the following reclamation measures:

- Within the one-year expiration of this authorization, the operator will commence final reclamation.
- Remove all materials and return the mining area to the original natural contours. This includes all excavation cuts.
- Silt fences or other erosion control will be utilized to prevent off-site sediment transport.
- Reclamation will be monitored by the operator, USFS personnel, and State of Colorado (DRMS) inspectors on an as needed basis.
- The road and site will be seeded with USFS-approved seed mixtures, as needed.
- Re-vegetation will not be complete until at least 50% plant re-growth has been established; when compared to adjacent undisturbed areas.
- Topsoil must be saved and used to cover all disturbed areas.
- Return large rocks, boulders, and logs to their original position.
- The U.S. Forest Service may require additional reclamation measures if needed.
- Earth work- which includes re-contouring and smoothing all disturbed areas. Earth work will not be considered complete if the surface is rough, no rough piles higher than 12 inches may be left.
- Remove all trash off Forest Service Lands.
- Remove all structures (fences, signs) from Forest Service Lands except for pre-existing structures.
- Complete all reclamation within one year of the end of the operating plan.
- Refund of any reclamation bond is contingent upon the success of reclamation.

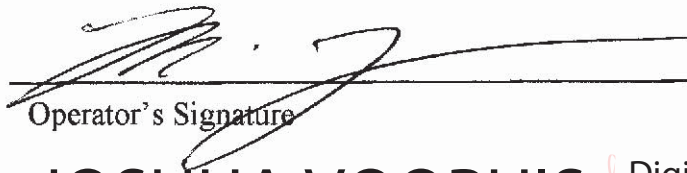
MONITORING

- The Forest Service will monitor and assess the progress of reclamation activities, including re-vegetation and erosion control, for a minimum of three years. Dependent on the success of the second phase of reclamation, additional seeding, weed treatment, or installation of erosion control structures may occur.

THE FOLLOWING STANDARD TERMS AND CONDITIONS ARE TAKEN FROM FOREST SERVICE FORM FS -2800-5 AND ARE REQUIRED FOR THIS PLAN OF OPERATIONS:

- Information provided within this plan that is marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.
- Approval of this plan does not constitute recognition or certification of ownership to any person named as owner herein.
- Approval of this operating plan does not constitute, now or in the future, recognition or certification of the validity of any mining claim to which it may relate or to the mineral character of the land on which it lies.

I acknowledge and understand these modifications and mitigation measures and agree to adopt them into my mine Plan of Operations.



Operator's Signature

2/24/2021

Date

JOSHUA VOORHIS

Digitally signed by JOSHUA VOORHIS

Date: 2021.03.11 14:58:59 -07'00'

District Ranger

Date



Sara Rose MPO approved!

Titterington, Amy -FS <amy.j.titterington@usda.gov>

Fri, Mar 12, 2021 at 10:44 AM

To: "mike@mikebergmannminerals.com" <mike@mikebergmannminerals.com>

Cc: "Russell - DNR, Elliott" <elliott.russell@state.co.us>, Sheila Cross <SCross@parkco.us>, "ncomer@townofalma.com" <ncomer@townofalma.com>

Hi Mike,

I wanted to let you know that your Sara Rose MPO renewal was approved yesterday.

The correspondence letter, signed MPO, and signed Design Criteria are attached.

A hard copy will be mailed to you soon.

If you have any questions, let me know.

Amy



Amy Titterington, PG, CMA I
Geologist/ AML Coordinator

Forest Service

PSICC, South Park Ranger District

p: 719-836-3871

f: 719-836-3875

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3 attachments

FS_Bergmann_MPOApproved_031121.pdf
222K

RedRockExploration_FS_FINAL_031121.pdf
967K

DesignCriteria_SaraRose_signed.pdf
275K