

## Information on Limited Impact Application for Group Presentation

Mine Permit #: M-1981-020/Thorson Mine

Permit Type: NP110

Cost to Cover Reclamation: \$2,500.00 CD (*At High Country Bank w/ Maturity on April 22, 2028*)

To: Mined Land Reclamation Board

From: Indian Springs Ranch, LLP / Ina Finch, Manager

Date: February 15, 2023

Following is a brief summary of the contents of a 110, Limited Impact Permit Application considered for group presentation. The information is accurate as of the above date.

The purpose of this report is to seek approval for temporary cessation for the second, consecutive 5-year period. The delay for this submission is due to personnel issues related to illness, death, and the lack of marketability for the gypsum and bentonite (the overburden). However, on February, 14th, 2024, Tom Newman visited the Indian Springs Ranch, LLP mining site and stated that Holcim is interested, but they have to finish up their mining project in Cotapaxi, Colorado first. They plan to use our site as a backup. With an agreement for mining with Holcim or other interested party, we will prepare to mine at the end of the second 5-year period. If we do not have the mining agreement in place at the end of this second 5-year period, we will begin the reclamation process.

Operator: Indian Springs Ranch, LLP / Mike Finch

File No.: M-1981-020

Operation Type: Gypsum Quarry

General Location: 5 miles northeast of Cañon City, CO (County Road 67, Penrose, CO 81240)

Acres: 9.8 (disturbed area is half an acre)

Mining Plan: Side hill, open-face gypsum quarry. Topsoil will be salvaged to allow for a final 12-inch depth. Area will be returned to grazing with an increase in usable flatland, thick walls, and benches. It will be stabilized and drainage of upland areas will adequately account for good on-site stability during and after mining.

### Reclamation Plan

Final land use: Rangeland

Slope grading: 4:1 floor of quarry

Topsoil depth: 12 inches

Species to be planted:

- Sideoats Grama @ 1.8# PLS/acre
- Western Wheatgrass @ 3.2#
- Little Bluestem @ 1.2#
- Indian Ricegrass @ 2.5#
- Sand Dropseed @ 0.1#
- Four Wing Saltbush @ 0.5#

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- Blue Gamma and Buffalo Grass (naturally grown)
- Mixture of Phosphate and Nitrogen @ 18/46 (final application)

Timetable: Mining will occur in 5-year phases over a 20-year period. Concurrent stabilization will occur with final reclamation.

Additional Comments: To be completed at the end of mining activities. Recommend approval with bond at \$2,500.00.

### Reclamation Plan:

Reclamation will not start grading, contouring, or revegetation until the quarry is completed. The mining will progress with the criteria of the reclamation plan. The entire permit area is required for current operation. Only the required area will only be disturbed as needed.

The topsoil will be needed in limited quantities and stockpiled to be used in the final reclamation as necessary. The depth of topsoil will range from 6 inches to 12 inches. The area will be reseeded according to S.C.S. recommendations to promote wildlife.

Revegetation will be consistent with the casual use of the adjacent areas.

The final grading will be done so the slope will not exceed the area as it exists today. This slope varies from 2:1 to 4:1. Quarrying operations will be conducted to promote final reclamation.

The quarry plan is multi-bench with safety berms which will allow a final (1:1 to 2:1) slope consistent with the undisturbed hillside above the quarry. Weathering will occur over the life of the quarry which will allow the upper benches to blend in with the upper undisturbed area.

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Estimated Cost Per Acre of Reclamation	Cost Per Acre
Contouring with dozer and grader* <i>4 hours per acre @ \$100.00</i>	\$800.00
Road grading (final contouring) <i>½ mile @ \$400.00</i>	\$184.00
Grass seed (S.C.S. Specifications) <i>11 lbs/acre @ \$6.20/lb.</i>	\$68.20
Fertilizer mix - Nitrogen and Phosphate <i>100 lbs/acre @ \$32.00/100 lbs.</i>	\$32.00
Seeding and Fertilizer Labor <i>2.0 hours/acre @ \$30.00</i>	\$60.00
Cost per acre	\$1,144.20
Total cost for road grading <i>9.8 acres plus ½ mile road to the mine</i>	\$5,605.60
Total cost for project of 9.8 acres	<b>\$6,749.80**</b>

\* Contouring and grading will be done as quarrying progresses. Costs will be absorbed as a quarrying cost annually. Indian Springs Ranch, LLP will handle all grading and reclamation.

\*\* Part of the cost will be spent annually so that reclamation liability should decline as quarrying progresses.

*Prepared by Ina Finch, Operating Manager on February 15, 2024.*