



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

October 5, 2023

Glenn Southwick
13800 Silver Springs Rd
Jay Em, WY 82219

**RE: Masonville Stone, Permit No. M-1986-007
Technical Revision No. 3 (TR03), Adequacy Review No. 1**

Dear Mr. Southwick

The Colorado Division of Reclamation, Mining, and Safety (Division) received your Technical Revision for the above referenced mine site on September 11, 2023. The revision included updated mining plan and reclamation plan maps submitted in response to a problem cited in the May 5, 2023 monitoring inspection report. The Masonville Stone site is a 110c mining operation. Exhibits proposed to be revised with this TR must comply with Rules 6.2.1 and 6.3.5. Additionally, all revisions reflected on the maps must be carried through to the Mining Plan (Rule 6.3.3) and the Reclamation Plan (Rule 6.3.4), yet to be submitted. Given this, please address to following adequacy issues:

General Requirements

1. Both maps should be labeled Exhibit E, in accordance with Rule 6.3.5.
2. The Mine I.D. written on the maps is incorrect. The Permit Number is M-1986-007.
3. Please ensure the maps meet the minimum requirements of Rule 6.2.1(2), specifically the maps must be prepared and signed by a registered land surveyor, professional engineer, or other qualified person. The maps submitted with TR3 are not signed by the preparer.
4. The permit boundary shown on the maps is consistent with a permit boundary map submitted in 2009 with Technical Revision 2 (TR2). However, in the spring of 2015, the Division required the Operator to demonstrate via a site survey by a registered surveyor that the total existing disturbance is less than or equal to the permitted 9.4 acres. On June 19, 2015, Coffey Engineering conducted a site survey (See attached letter submitted to the Division on August 6, 2015). Per Rule 6.3.5(2) please revise the mining and reclamation maps to show the outline of the 2015 surveyed permit boundary and provide the geographic data points for each boundary marker installed.
5. The maps submitted appear to be photographs. Photos of maps distort the scale and cannot be accepted. Please mail the revised maps to the Division at the address listed at the bottom of this page.

Physical Address: 1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106

Mailing Address: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 <https://drms.colorado.gov>

Jared S. Polis, Governor | Dan Gibbs, Executive Director | Virginia Brannon, Director



Rule 6.3.5(2) – Mining Plan Map

1. Please label the location and ownership of any significant, valuable, and permanent man-made structures within two hundred (200) feet of the affected area. This includes the two county roads, a fence running along Co Rd. 27, and any utilities or permanent structures within 200 feet of the permit area.
2. Please outline and label existing disturbance within and/or adjacent to the permit boundary (e.g., previously mined areas, roads or excavations resulting from utility construction). This includes any rock slabs, fencing, or rubble outside the boundary from current or historic mining.
3. Please clearly outline and label the seed bed and note on the map that this is an undisturbed area not included in the permitted acres.

Rule 6.3.5 (3) – Reclamation Plan Map

4. Please remove all mining plan details from the reclamation map, specifically “future excavation area” and “quarry pits” and “product stockpiles”, since these will not remain once reclamation is complete.
5. Show the gradient of all reclaimed slopes (horizontal:vertical) sufficient to describe the post mine topography on the map. Indicate if any terraces will be used to stabilize slopes.
6. Amendment 2, approved in November 2000, states that overburden will be replaced to depths anywhere from 2 to 15 feet as needed to fill in extraction sites. Please clearly label the average thickness of replaced overburden by reclamation area or phase on the map.
7. Amendment 2 states that topsoil will be replaced to a depth of 1-6”. The Division requires a minimum of 6” of topsoil for reclamation. Please show the thickness of replaced topsoil by reclamation area or phase on the map.
8. Please indicate on the map area where vegetation will not be established.
9. The reclamation map shows a network of roads in the mining area. Amendment 2 states the existing access road will remain after reclamation. Please clarify on the map which access road will remain and remove all other roads in the permit area.

Rule 6.3.3 – Exhibit C Mining Plan

10. Please update the Mine Plan to discuss the seed bed in the upper portion of the permit area and how this area will be protected from mining and/or disturbance. The Division would like to remind the Operator that this area cannot be disturbed without amending the permit area. If the Operator would like to mine through this area, an Amendment application must be submitted to expand the permit boundary to incorporate the seed bed into the permitted disturbance area.

11. Amendment 2 states "Topsoil for plant growth will be salvaged for use in reclamation when possible. Per Rule 6.3.3 (b), please update the Mine Plan to describe how/where the topsoil is stored and stabilized during the mining phase.

Rule 6.3.4 – Exhibit D Reclamation Plan

12. Amendment 2 states feedlot manure and shredded mulch will be hauled and applied at a rate of 30 tons per acre. During a phone call with the Division on October 5, 2023, Mr. Southwick indicated he no longer owns an adjacent feed lot and does not plan to haul manure to the site for reclamation. Per Rule 3.3.4 (c), please update the Reclamation Plan to describe the measures that will be taken to revegetate the site.
13. Sufficient soil must be salvaged to meet the vegetation establishment criteria of Rule 3.1.10, Please update the Reclamation Plan to describe if sufficient topsoil is stored on site, or if topsoil will be imported for reclamation and state the thickness of plant growth medium to be replaced (minimum 6").
14. Amendment 2 states only the existing access road will remain after reclamation. The Reclamation Plan shows several road segments in the mining area. Per Rule 6.3.4 (c), please update the Reclamation Plan to specify which road will remain after reclamation and expand on how the interior haul roads will be reclaimed.

This concludes the Division's review of TR03. The Division is required to issue a decision on the application **by October 11, 2023**. If you need additional time to address these items, please submit a written statement waiving your right to a thirty (30) day decision. If the decision date arrives and there are outstanding adequacy issues and a waiver of your right to a thirty-day decision has not been submitted, the Division will deny the application.

If you have any questions, you may contact me by telephone at (303) 866-3567, ext. 8126, or by email at nikie.gagnon@state.co.us.

Sincerely,

Nikie Gagnon

Nikie Gagnon
Environmental Protection Specialist

Cc: Amy Eschberger, Senior EPS, DRMS

ECB
RECEIVED

AUG 11 2015

DIVISION OF RECLAMATION
MINING AND SAFETY



COFFEY

ENGINEERING & SURVEYING

4045 St. Cloud Drive, Suite 180

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CO Division of Reclamation Mining & Safety
Attn: Eric Scott, Environmental Protection Specialist
1313 Sherman Street, Room 215
Denver, CO 80203

M-1 986-007

Date: August 6th, 2015

To all concerned,

The owners of the Masonville Quarry engaged Coffey Engineering & Surveying to conduct a survey of the disturbed mining operation. Early in June 19, 2015, we went to the site. We established primary control for GPS receivers and performed a calibration to insure that the accuracy was relevant to the area and site. We walked the perimeter of the active quarry and used RTK method on our GPS Trimble GNSS R8-4. We also defined the perimeter of the 'island' or seed-bed area to be excluded from the calculation. After post processing the data, we provided the owner with a report and sketch map showing that the gross disturbed area was 9.4 acres, with the island being 0.4 acres...for a total disturbed calculation of 9.0 acres

After this effort was provided, Eric Scott voiced concerns about how the boundary was defined. Trying to represent the boundary on an unrectified image added to the confusion. In order to insure that the true area of disturbance was accurately represented...it was determined that meeting on site would be the only way to have complete confidence in the acreage calculation. On July 22nd the owner, Eric Scott, and myself, met on site and walked the entire perimeter of the active quarry. Eric and I discussed the boundary point by point and left lath markers at each angle point of the disturbed area boundary. On July 31, 2015 a survey crew from my office went to the site and located each of the angle point marks set by Eric and myself. This field data was post processed and the calculations performed again. To insure the integrity of the data and that no stakes had moved from the time I had walked it with Eric, on August 5, 2015 I had a separate crew accompany me back to the site and retraced the locations that I had set with Eric. We found no instances where the boundary was different than the field survey performed on July 31st. The gross area of the mine was determined to be 9.51 acres, with the 'island' or seed-bed covering 0.22 acres for a net area of disturbance of 9.29 acres.

Coffey Engineering & Surveying has permanent record of the control, boundary locations and calculations that can be provided in coordinate format or retraced at any time. I think that the redundant methods, as well as independent survey efforts have been above and beyond the normal protocol, but necessary to conclude the confusion created by not having the boundary consistently monumented.

Sincerely,

Michael D. Lang, P.L.S.
Vice President





Google earth

feet
meters



TOTAL = 9.29 AC

