



STATE OF
COLORADO

Zuber - DNR, Rob <rob.zuber@state.co.us>

4Q 2020 Gob Pile report

1 message

Zuber - DNR, Rob <rob.zuber@state.co.us>

Thu, Jun 3, 2021 at 3:35 PM

To: Basil Bear <basilbear@wolverinefuels.com>, Tamme Bishop <tamme.jestover@bresnan.net>

Hello -

Please see the attached file, which is the DRMS review of the Bowie #2 Gob Pile report from the fourth quarter of 2020.

Thanks,
Rob

Rob Zuber, P.E.
Environmental Protection Specialist II
Active Mines Regulatory Program



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

P 303.866.3567, extension 8113 | Cell 720.601.2276
1313 Sherman Street, Room 215, Denver, CO 80203
rob.zuber@state.co.us | <http://drms.colorado.gov>



DRMS_review_letter_4Q_2020_Waste_Piles.pdf
316K



June 3, 2021

Basil A. Bear
Bowie Resources, LLC
P.O. Box 1488
Paonia, CO 81428

**Re: Bowie No. 2 Mine, Permit C-1996-083,
Review of Waste Bank Reports, 4th Quarter 2020**

Dear Mr. Bear:

In January 2021, the Division received the Waste Bank Reports for the Bowie No. 2 Mine for the fourth quarter of 2020. The submittal by Bowie Resources LLC (BRL) included:

- An inspection report and certification by Tamme Bishop (Colorado P.E. 43402) for Waste Bank Numbers 1, 2, and 3
- An Instrument Monitoring report by Huddleston-Berry Engineering and Testing, LLC (HBET) for Waste Bank No. 2 (including an attachment by the Dowl Company)
- An Instrument Monitoring report by HBET for Waste Bank No. 3 (including an attachment by the Dowl Company)
- A Materials Testing report by HBET for Waste Bank No. 3.

The Division reviewed these reports in the context of the following rules in the :

- 4.10.2
- 4.10.4.

The Division has found no compliance issues with the reports. The Division does have the following observations and requests regarding the reports:

- 1. In future quarters, in the inspection report and certification by Tamme Bishop, please discuss Waste Bank Number 4. At the very least, mention that bank as inactive, as is done for Waste Bank No. 1.**
2. A registered engineer provided to the Division a certified report, but it was not within two weeks after the inspection of the waste banks was completed. The Division understands that other factors (such as the timing of reports from engineering consultants) impact the schedule of the report submittal, and we do not find this tardiness an issue.
3. Waste Bank #2
 - a. No loose gob was on Waste Bank #2 at the time of the inspection (the top of the pile can serve as a drying area).
 - b. Regarding the Instrument Monitoring report, the inclinometer data and the piezometer monitoring data reveal no significant changes from the third quarter of 2020, and the Division finds that there is no evidence of instability with this waste bank.



4. Waste Bank #3

- a. Placement of material occurred during the fourth quarter on Waste Bank #3. This was noted by the Division in the inspection report from November 17, 2020. This was material that had previously been placed in the drying area on the east side of this waste bank.
- b. Regarding the Instrument Monitoring report, the piezometer monitoring data reveal no significant changes from the third quarter of 2020, and the Division finds that there is no evidence of instability with this waste bank.
- c. **No map is supplied showing locations of piezometers. This should be provided in future reports.**
- d. Compaction testing
 - i. Compaction testing was done in October and November.
 - ii. At all locations where compaction testing was performed, the results for dry density were all at or above 90 percent (as required by Rule 4.10.4(3)(b)), indicating that BRL is compacting the waste material sufficiently.
 - iii. North and East values for points where compaction tests were performed are included in the report, but it is unclear to the Division what coordinate system is used by BRL.
Please explain this coordinate system or provide a map of the point locations.

If you have questions or comments, feel free to contact me at Rob.Zuber@state.co.us or 720.601.2276.

Thank you,



Robert D. Zuber, P.E.
Environmental Protection Specialist II

Cc via email: Tamme Bishop, J.E. Stover & Associates, Inc.