



STATE OF
COLORADO

Musick - DNR, Jason <jason.musick@state.co.us>

Bowie No. 2 Mine, C-1996-083, 2nd Quarter 2016 Pond Inspection Report and Gob Inspection Report Review Letter

1 message

Musick - DNR, Jason <jason.musick@state.co.us>

Fri, Sep 9, 2016 at 8:58 AM

To: Bill Bear <BBear@bowieresources.com>

Cc: Tamme Bishop <tamme.jestover@bresnan.net>

Good morning Bill,

Attached is the Division's review of the 2nd quarter 2016 pond inspection report and the gob pile inspection reports.

Please let me know if you have any questions or comments.

Thanks,
Jason

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Jason Musick
Environmental Protection Specialist III
Coal Regulatory Program



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

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COLORADO

**Division of Reclamation,
Mining and Safety**

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

September 9, 2016

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

RE: **Bowie Resources, LLC, Permit C-1996-083**
Second Quarter 2016 Pond Inspection Report Review
Second Quarter 2016 Coal Waste Pile and Instrumentation Inspection Report Review

Dear Mr. Bear:

Second Quarter 2016 Pond Inspection Report Review

The Colorado Division of Reclamation, Mining, and Safety (CDRMS) has reviewed and found the above referenced report to be in compliance with the following CDRMS regulation(s):

4.05.9(17) - Examined at least quarterly by a qualified person designated by the operator, for appearance of structural weakness and other hazardous conditions.

4.05.9(17) - A copy of the report shall be submitted to the Division on a quarterly basis.

The second quarter pond inspection report was received by the Division on July 14, 2016 via email. Pond inspections were conducted by J.E. Stover and Associates on June 30, 2016.

It is noted that no discharge was noted during the inspection and maintenance items included the needed clean-out of Ponds F, B, and J. The Division has no adequacy comments concerning this report.

Second Quarter 2016 Coal Waste Pile and Instrumentation Inspection Report Review

The Colorado Division of Reclamation, Mining, and Safety (CDRMS) have found the above referenced report to be in compliance with CDRMS Regulations: 4.09.1(11) and 4.10.2(2), unless noted below.

The above referenced report was submitted by J.E. Stover and Associates, Inc (SAI) for Bowie Resources, LLC. The second quarter 2016 report was received via email on July 14, 2016. SAI visited the site on June 30, 2016. Based on the report, SAI did not observe any signs of instability, structural weakness or hazardous conditions at the pile. The observations reflect observations with on-site inspections



conducted by the Division of the Gob Piles. The report states that approximately 29,742 tons of waste coal were hauled to gob pile #2 and gob pile #3 during the quarter, with approximately 90% of the material being placed at gob #3.

Approved Placement, Compaction, and Inspection requirements for Coal Mine Waste (Gob) are found in Volume IX, pp. 12-14 and Volume XI, pp. 8-9. The information provided in the subject report adequately addresses the requirements. ***Please see the highlighted text below for comments on compaction testing results and frequency of VWP monitoring.***

Compaction Testing

During this quarter, 33 compaction tests were conducted at gob pile #2. No compaction testing was conducted at gob pile #3. Based on the information noted in the report it appears that compaction tests 1 (83.5), 2 (83.5), 4 (83.5), and 5 (83.5) conducted on May 4, 2016 and compaction tests 1, 2, 3, 4, 6, 7, 8, 13, 14, 15, and 16 conducted on June 29, 2016 were below the 90% maximum dry density standard under Rule 4.10.1(3)(b). ***Please provide information to the Division addressing the compaction tests noted above falling under the 90% maximum dry density standard.***

Instrumentation Report

Three inclinometers are installed on the lowermost bench of Gob Pile #2; measurements are made quarterly. The results for this quarter indicate no significant movement has occurred. It is noted that deflection was observed at BG05-05. The movement was observed as a uniform shift along the 'middle' of the instrument with no movement at the top. This deflection will be observed and the 3rd quarter monitoring data will be noted regarding observed deflection.

Vibrating Wire Piezometers (VWPs) are installed at Gob Pile #2 (5) and at Gob Pile #3 (also 5). The VWPs were installed and are monitored on a regular basis by Buckhorn Geotech (now by DOWL). In a letter dated April 10th, 2014, the Division directed BRL to increase the monitoring frequency from quarterly to monthly. BRL committed to the increase in a letter dated April 11th, 2014. Monthly monitoring was continued through Oct-2014, with an additional quarterly reading taken on January 6th, 2015 (representing the 4th Qtr). By Email on February 10th, 2015, the Division approved BRL's reverting to once per quarter through the 1st Quarter of 2016. VWP-06 showed a slight decrease in pore pressure during the 2nd Qtr with VWP-08 showing no change. ***The Division will continue to review the quarterly data, as soon as it is available, and determine then whether BRL should return to monthly monitoring of VWP-06 and -08 in the future.***

Bowie Resources, LLC

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If you have any questions feel free to contact me. (303) 866-3567 ext 8134

Sincerely,

A handwritten signature in blue ink, appearing to read "Jason Musick", with a stylized flourish at the end.

Jason Musick

Environmental Protection Specialist