

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

Aerial inspection of Bowie #2

1 message

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To: Basil Bear

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Thu, Dec 10, 2020 at 2:56 PM

Hi, Basil

Brock flew over your mines yesterday and took photos, and here is the report for Bowie #2.

As always, let me know if you have questions or comments.

Regards, Rob

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



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INSP-REPORTC_C1996083_RDZ_12102020022655.pdf 518K



PERMIT INFORMATION

Permit Number: C-1996-083 Mine Name: Bowie No. 2 Mine Operator: Bowie Resources, LLC Operator Address: Mr. Basil Bear P.O. Box 1488 Paonia, CO 81428	County: Delta Operation Type: Underground Permit Status: Active Ownership: Private Operator Representative Present: None			
Operator Representative Signature: (Field Issuance Only)				

INSPECTION INFORMATION

Inspection Start Date: December Inspection Start Time: 12:50 Inspection End Date: December Inspection End Time: 12:55			Inspection Type: Aerial Insp Inspection Reason: Normal Weather: Clear	
Joint Inspection Agency: Joi		Joint	Inspection Contacts:	
None				
Post Inspection Agency:		Post	Inspection Contacts:	
None				
Inspector(s):	Inspecto	r's Sig	nature:	Signature Date:
Robert Zuber, P.E.	Plet	D.	ZL	
Brock Bowles				12/10/2020

Inspection Topic Summary

NOTE: Y=Inspected N=Not Inspected R=Comments Noted V=Violation Issued NA=Not Applicable

R - Air Resource ProtectionN - Availability of RecordsNA - Backfill & Grading

NA - Excess Spoil and Dev. Waste

NA - Explosives N - Fish & Wildlife R - Hydrologic Balance

R - Gen. Compliance With Mine Plan

N - Other

R - Processing Waste

R - Roads

R - Reclamation Success

N - Revegetation

R - Subsidence

R - Slides and Other DamageR - Support Facilities On-site

N - Signs and Markers

NA - Support Facilities Not On-site NA - Special Categories Of Mining

R - Topsoil

COMMENTS

Brock Bowles of DRMS took aerial photographs of the Bowie No. 2 Mine site on December 9, 2020. Rob Zuber of DRMS reviewed the photographs on December 10, 2020.

Coal production at the Bowie No. 2 Mine ceased in 2016. The mine is in "active" status because BRL continues to perform work on Gob Pile #2 and Gob Pile #3 for many months of the year. Other activities on site are maintenance and monitoring.

AIR RESOURCE PROTECTION – Rule 4.17:

The photographs did not reveal any issues with fugitive dust.

HYDROLOGIC BALANCE - Rule 4.05

Drainage Control 4.05.1, 4.05.2, 4.05.3; Siltation Structures 4.05.5, 4.05.6; Discharge Structures 4.05.7, 4.05.10; Diversions 4.05.4; Effluent Limits 4.05.2; Ground Water Monitoring 4.05.13; Surface Water Monitoring 4.05.13; Drainage – Acid and Toxic Materials 4.05.8; Impoundments 4.05.6, 4.05.9; Stream Buffer Zones 4.05.18:

The following ponds were inspected: B, C, D, F, J, and K. All of the ponds appeared to be dry or nearly dry. No problems were identified with embankments or other features of the ponds.

No problems were detected with any of the surface water control ditches. This includes the diversion ditches above Gob Pile #2 and Gob Pile #4.

The Fire Mountain Canal is an irrigation ditch that runs through the Bowie #2 permit area but is owned by another party. No significant water from seepage was observed in the photographs, and the downhill bank (which acts like a levee protecting Gob Pile #3) appears stable at this time.

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2

GENERAL MINE PLAN COMPLIANCE:

The photographs revealed no signs of pollutant loading from the mine into the North Fork of the Gunnison River or adjacent lands.

PROCESSING WASTE/COAL MINE WASTE PILES – Rule 4.10 and 4.11

Drainage Control; Surface Stabilization; Placement:

No evidence of ponding was identified on any of the gob piles.

The erosion on Gob Pile #3 does not appear to be getting worse, and there is no sign of coal waste in the ditch below the pile (Ditch J3).

Newly placed coverfill material could be seen on Gob Pile #3, at the southwest corner. The piles of material should be spread in the near future to avoid ponding. Alternatively, the piles could be re-shaped into rows (perpendicular to contour lines on the piles) to allow for positive drainage.

ROADS – Rule 4.03

Construction 4.03.1(3)/4.03.2(3), Drainage 4.03.1(4)/4.03.2(4), Surfacing and Maintenance 4.03.1(5) and (6)/4.03.2(5) and (6), Reclamation 4.03.1(7)/4.03.2(7):

No problems were seen with the haul road to the portals and Utility Bench or the steep hillsides along this road. Roads to the Terror Creek Vent Shaft and Gob Vent Boreholes B17A-D were inspected; no problems were seen.

RECLAMATION SUCCESS - Rule 4.15, Rule 3:

Gob Pile #1, Gob Pile #4, and the reclaimed portion of Gob Pile #2 all appear to be in adequate shape with minimal areas that are bare. No signs of significant erosion can be seen in the photographs.

SUBSIDENCE - Rule 4.20:

No evidence of subsidence was seen on the undisturbed hills around the mine site (the affected area above the mine workings).

SLIDES and DAMAGE - Rule 4.12:

It appears that slumps have not moved significantly in the recent past. These include slumps by the B Portal and by Curve Number 11 along the Haul Road.

SUPPORT FACILITIES - Rule 4.04:

No problems were identified with any facility areas, including the following: the Utility Bench, the D Portal Bench, the B Portal Bench, the Material Storage Area by Curve #4, the Conveyor Corridor, the Coal Stockpile

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2 Area, the Preparation Plant area, the storage area and buildings near Pond D.

The pad for the Terror Creek Vent Shaft and pads for Gob Vent Boreholes B17A-D were inspected. No problems were identified.

TOPSOIL - Rule 4.06

Removal 4.06.2; Substitute Materials 4.06.4(4); Storage and Protection 4.06.3; Redistribution 4.06.4:

Topsoil stockpiles and coverfill piles appear stable. These include:

- Topsoil Stockpile A by the material storage on the road to the portals
- Topsoil Stockpiles D and E next to Gob Pile #1
- The coverfill pile southeast of Gob Pile #2
- Topsoil Stockpile F/F1 east of Gob Pile #3
- The coverfill pile east of Gob Pile #3.

DOCUMENTS RECEIVED - none

OTHER (SPECIFY) - none

ENFORCEMENT ACTIONS/COMPLIANCE

No enforcement actions were initiated as a result of this inspection, nor are any pending.

Number of <u>Partial</u> Inspection this Fiscal Year: 4 Number of <u>Complete</u> Inspections this Fiscal Year: 2

PHOTOGRAPHS



Pad for Terror Creek Vent Shaft



Gob vent boreholes (B17)



Gob Pile #2



Gob Piles #1 and #4



Gob Pile #3



Coal Stockpile and lower Haul Road



B Portal area



D Portal area and Utility Bench