



STATE OF
COLORADO

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

Bowie #2 inspection

1 message

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Sat, Oct 3, 2020 at 5:27 PM

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

Please see the Bowie #2 inspection report based on Oct 1 photos (attached).

Rob

Rob Zuber, P.E.
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Active Mines Regulatory Program



COLORADO
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INSP-REPORTC_C1996083_RDZ_10032020043709.pdf
512K



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: October 1, 2020 Inspection Start Time: 11:45 Inspection End Date: October 1, 2020 Inspection End Time: 11:57	Inspection Type: Aerial Inspection Inspection Reason: Normal I&E Program Weather: Clear
Joint Inspection Agency: None	Joint Inspection Contacts:
Post Inspection Agency: None	Post Inspection Contacts:
Inspector(s): Robert Zuber, P.E. Brock Bowles	Inspector's Signature and Date:  10/3/2020

Inspection Topic Summary

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

Y - Air Resource Protection

N - Availability of Records

NA - 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 Damage

R - 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 October 1, 2020. The weather was clear despite wildfire smoke around Colorado. Rob Zuber of DRMS reviewed the photographs on October 3, 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.

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 except Ponds F and J (J was very full). 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 (an irrigation ditch that runs through the Bowie #2 permit area but is owned by another party) appeared to be nearly empty. 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.

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.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1

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, but piles of waste material could be seen on Gob Pile #3. This material must be spread to avoid future 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 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 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, but GVB B17C has a large cut that must be watched closely in the future.

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 east of Gob Pile #2
- Topsoil Stockpile F/F1 east of Gob Pile #3
- The coverfill pile east of Gob Pile #3.

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DOCUMENTS RECEIVED - NA

OTHER (SPECIFY) - none

ENFORCEMENT ACTIONS/COMPLIANCE

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

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PHOTOGRAPHS



Pad for Terror Creek Vent Shaft (sealed)



Pads for sealed gob vent boreholes – GVB B17C at upper left

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Gob Pile #2 and surrounding area

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Number of Complete Inspections this Fiscal Year: 1



Gob Pile #2 (upper portion)



Gob Pile #2 (lower portion) and Pond F

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Gob Pile #3 and surrounding area



Gob Pile #3 (west end) and SAEs near the office

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