



STATE OF
COLORADO

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

Bowie #2 inspection report

1 message

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Fri, Sep 8, 2023 at 3:31 PM

To: Basil Bear <basilbear@wolverinefuels.com>, Tamme Bishop <tammekb@gmail.com>

Hello -

Please see the attached report from my inspection yesterday.

Rob

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



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

I am working remotely and can be reached by cell at 720.601.2276.

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INSP-REPORTC_C1996083_RDZ_09082023.pdf


1520K



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: September 7, 2023 Inspection Start Time: 09:00 Inspection End Date: September 7, 2023 Inspection End Time: 10:30		Inspection Type: Coal Partial 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.	Inspector's Signature: 		Signature Date: 9/8/2023

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

Y - Backfill & Grading

NA - Excess Spoil and Dev. Waste

NA - Explosives

Y - Fish & Wildlife

R - Hydrologic Balance

Y - Gen. Compliance With Mine Plan

N - Other

R - Processing Waste

R - Roads

Y - Reclamation Success

Y - Revegetation

Y - Subsidence

R - Slides and Other Damage

R - Support Facilities On-site

Y - Signs and Markers

N - Support Facilities Not On-site

N - Special Categories Of Mining

R - Topsoil

COMMENTS

A partial inspection was conducted by Rob Zuber of DRMS on September 7, 2023.

Work on Gob Pile #3 continues and placement of coverfill is close to completion. A truck and excavator team was seen operating during the inspection.

The weather was clear and warm during the inspection. The ground was dry.

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:

Basil Bear has indicated that the source of water causing the slide above Curve 10 may be the D Portal bench. It appears that more work is needed regarding the drainage of runoff from the bench. The soil piles and general grade may need to be altered to get water to drain from the area and not infiltrate through the bench and to the slide area.

Three sediment ponds were inspected: D, F, and J. None of the ponds contained more than a small quantity of water. No significant problems were identified with embankments, spillways, inlet channels, or other features of the ponds.

No problems with ditches were seen. This includes the undisturbed drainage that extends below riprap ditch C14 to Pond C.

The Fire Mountain Canal was flowing full.

Number of Partial Inspection this Fiscal Year: 2

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:

Gob Piles 1, 2, 3, and 4 appeared stable. Some rills are on the upper slope of Gob Pile #2, but appear no worse than in recent months.

The work on Gob Pile #3 has progressed considerably in recent months. See photographs below.

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):

The road to the portals was in adequate condition. The majority of slopes adjacent to this road were stable, with the exception of the slide above Curve 10.

SLIDES and DAMAGE - Rule 4.12:

It appears that slumps above Curve Number 6 along the Haul Road, directly above the B Portal, above Curve Number 11, and above the D Portal bench have not moved significantly in recent months.

The slump above the west side of the B Portal Bench has moved in recent weeks. As noted before, it could be advantageous to improve the ditch above this area to limit further problems with this slope.

The slide above Curve Number 10 is an ongoing problem. The ground appears to have dropped more than five feet. It does not appear to be worse than during the August 2023 inspection.

SUPPORT FACILITIES - Rule 4.04:

The following areas appeared stable with no signs of erosion:

- Utility Bench
- D Portal Bench
- The storage area east of the D Portal Bench
- The B Portal Bench (other than slides above)
- Material storage area beside Topsoil Stockpile A
- Conveyor corridors
- Slopes above and below the Coal Stockpile Pad
- The area around the office
- The Preparation Plant and nearby water tank
- Pump House and Filter Building
- Old power plant
- Storage area west of Pond D.

Number of Partial Inspection this Fiscal Year: 2

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The Unit Train Loadout was not inspected during this inspection.

TOPSOIL – Rule 4.06

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

No erosion or other problems were seen with topsoil stockpiles or coverfill piles.

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 Partial Inspection this Fiscal Year: 2

Number of Complete Inspections this Fiscal Year: 1

PHOTOGRAPHS



Gob Pile #3, east end



Gob Pile #3, west end

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Number of Complete Inspections this Fiscal Year: 1



Rills on Gob Pile #2



Upper part of Gob Pile #4

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Number of Complete Inspections this Fiscal Year: 1



Watershed above Pond C



B Portal Bench – slide has continued to get worse

Number of Partial Inspection this Fiscal Year: 2

Number of Complete Inspections this Fiscal Year: 1



Slide above Curve 10



**Area on D Portal Bench where water could pond and infiltrate into bench
(Possible need for drainage improvement)**

Number of Partial Inspection this Fiscal Year: 2

Number of Complete Inspections this Fiscal Year: 1