



STATE OF
COLORADO

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

Bowie #1 report

1 message

Zuber - DNR, Rob <rob.zuber@state.co.us>
To: Basil Bear <basilbear@wolverinefuels.com>

Fri, Nov 20, 2020 at 10:00 AM

Hi, Basil

Attached is my report from Tuesday this week. As always, call or email with comments and questions.

Take care,
Rob

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



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

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INSP-REPORTC_C1981038_RDZ_11202020090114.pdf
741K



PERMIT INFORMATION

Permit Number: C-1981-038 Mine Name: Bowie No. 1 Mine Operator: Bowie Resources, LLC Operator Address: Mr. Basil R 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: November 17, 2020 Inspection Start Time: 12:30 Inspection End Date: November 17, 2020 Inspection End Time: 15:00		Inspection Type: Coal Complete 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: 11/20/2020

Inspection Topic Summary

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

Y - Air Resource Protection

R - Availability of Records

Y - Backfill & Grading

Y - Excess Spoil and Dev. Waste

NA - Explosives

Y - Fish & Wildlife

R - Hydrologic Balance

Y - Gen. Compliance With Mine Plan

N - Other

Y - Processing Waste

Y - Roads

R - Reclamation Success

Y - Revegetation

Y - Subsidence

R - Slides and Other Damage

NA - Support Facilities On-site

R - Signs and Markers

R - Support Facilities Not On-site

Y - Special Categories Of Mining

Y - Topsoil

COMMENTS

A complete inspection was conducted by Rob Zuber of DRMS on November 17, 2020. Basil Bear of Bowie Resources, LLC (BRL) was at the Bowie No. 2 Mine, and he did not participated in the field inspection. He was available by cell phone to answer some questions. He was not present for the records check in the BRL office because of social distancing due to the Covid-19 disease.

The weather was hot for November and clear, and the ground was mostly dry.

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

The records were found to be very well organized and complete.

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 ponds at the loadout, the Coal Storage Area (near loadout), and at the West Mine were dry, and no problems were identified with these ponds. The primary spillway at the loadout pond appears to be functioning, although it is difficult to see in the pipe. The emergency spillway has been cleared of branches.

Flow out of a culvert near the substation at the loadout was observed; per Basil Bear (via phone call) this is irrigation tail water from farming above the mine area.

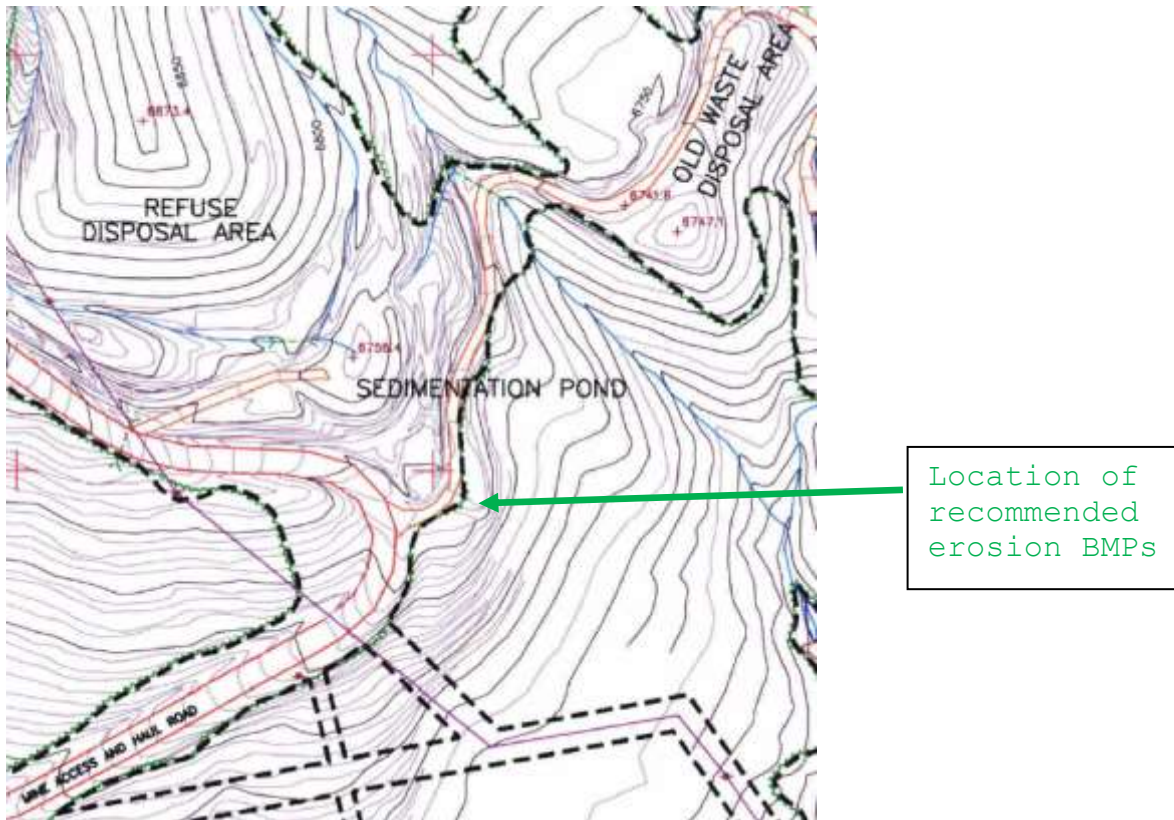
The irrigation canal that flows through the loadout (including a 600-foot culvert) was dry.

The sediment control BMPs below the Refuse Disposal Area are functioning. The BMPs at the R.O.M. Storage Area pond are functioning but should be inspected often as the silt fence is sagging and the berm is not very high.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2

Below the RDA (see the map for location) straw bales are functioning, but additional BMPs are recommended to prevent erosion at the interface with undisturbed land.



RECLAMATION SUCCESS - Rule 4.15, Rule 3:

Good stands of vegetation were seen at the reclaimed area of the East Mine (including the RDA, reclaimed ponds, and the Old Waste Disposal Area), the ROM and Timber Storage areas, and the West Mine. The vegetation is not as good at the coal storage area by Black Bridge Road, but there is no erosion there.

SLIDES and DAMAGE - Rule 4.12:

No slides or other damage were seen at any reclaimed areas.

SIGNS AND MARKERS – Rule 4.02:

Mine identification signs were seen at the East Mine entrance, the loadout entrance, and in other locations. Disturbance boundary markers were seen in several locations, including at the upper portion of the East Mine.

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OFFSITE SUPPORT FACILITIES - Rule 4.04, 4.28:

No problems were seen with the Coal Storage Area by the highway or with the loadout. The slope below the substation and the rest of the main yard at the loadout is stable.

DOCUMENTS RECEIVED - none

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



Slope below yard at the loadout – west side



Slope below east side of the loadout

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Loadout spillway and dry irrigation ditch



Coal storage area at Black Bridge Road

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West Mine ponds



R.O.M. Storage – reclaimed pond

Number of Partial Inspection this Fiscal Year: 3

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Lower portion of East Mine, including RDA (taken below reclaimed pond)



Area below RDA where erosion control BMPs are recommended

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Area of reclaimed Ponds 1 and 2 (circled tree should be monitored for erosion)



Cliff above reclaimed portal bench

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AVAILABILITY OF RECORDS**PERMIT RECORDS**

DRMS Permit	RN7 exp. 4/20/2023
Permit Application w/Revisions	On shelf
Findings Document	RN7 findings 3/30/2018
Insurance Certificate	Exp.5/1/2021
Bond Document	SEE COMMENT 1
Phased Bond Release	SL6, Findings
Documents/Findings	2/15/2018
Air Emission Permits	NA
County Special Use Permits	NA
UG Mining Landowner Notification	1993 and 1994
Subsidence Monitoring Reports	NA
Subsidence Monitoring Data	NA
Rill & Gully Survey	3Q 2020
Vegetation Monitoring Data	
Specific Variance Approvals	2.06.1(3) Steep Slope
Annual Reclamation Reports	2019
Midterm Review Documents	MT7 10/13/2015
DRMS/OSM Inspection	Thru
Reports/Enforcement Actions (3 Years)	October 2020
Transfers/Succession of Operator	7/29/2009
Temporary Cessation Notification	NA
Reclamation Cost Estimate	\$1,463,269 (SL6) SEE COMMENT 2
CERTIFICATIONS	
Pond Certifications	W-1 and W-2 (2002)
Annual Certifications for Large Impoundments	NA
Fill Certifications for Excess Spoil or Underground Development Waste	Yes 2/4/1987
• Quarterly Inspections	NA
• Compaction Testing	NA
• Final Certification	NA
Coal Processing Waste Banks	NA
Haul Road Certifications	Yes, several years
Access Road Certifications	Yes, PAP Vol. 8A

HYDROLOGIC RECORDS

NPDES Permit	CO-0049045 Exp. 2025
NPDES Records (DMRs)	October 2020
Stormwater Management Plan	Aug. 2018
SPCC Plan	No longer valid
MSHA Pond Inspections	NA
State Engineer's Pond Inspection	NA
Quarterly Pond Inspections	3Q 2020
Annual Hydrology Reports	2019
• Ground Water Monitoring	2019 AHR
• Surface Water Monitoring	2019 AHR
• Spring & Seep Monitoring	2019 AHR
• Mine Water Discharge Monitoring	NA
• Mine Inflow Study	NA
• Water Consumption Records	NA
Well Permits	

BLASTING RECORDS

Blasting Publication	NA
Blasting Records (3 years)	NA
ATFE Explosives Permit	NA
Blasting Variances	
Pre-Blast Surveys	

ADDITIONAL RECORDS (specify)

CDOT Access Permits	June 1999
Annual Subsidence Report	2019

COMMENTS:

1. Two instruments with Lexon Insurance Co.: \$2,500,000 + \$380,000 = \$2,880,000.
2. The cost estimate does not match liability as explained in SL-06 findings.

Number of Partial Inspection this Fiscal Year: 3Number of Complete Inspections this Fiscal Year: 2