



STATE OF
COLORADO

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

Bowie 2 inspection report

1 message

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

Thu, Nov 18, 2021 at 4:15 PM

Basil -

Please see the attached report.

Thanks,
Rob

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



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

P 303.866.3567, extension 8113 | Cell 720.601.2276
1313 Sherman Street, Room 215, Denver, CO 80203
rob.zuber@state.co.us | <http://drms.colorado.gov>



INSP-REPORTC_C1996083_RDZ_11182021033617.pdf
2661K



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

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: Basil Bear
Operator Representative Signature: (Field Issuance Only) 	

INSPECTION INFORMATION

Inspection Start Date: November 17, 2021 Inspection Start Time: 06:50 Inspection End Date: November 17, 2021 Inspection End Time: 10:30		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: <i>Robert D. Zuber</i>		Signature Date: 11/18/2021

Inspection Topic Summary

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

R - Air Resource Protection**R** - Availability of Records**Y** - Backfill & Grading**NA** - Excess Spoil and Dev. Waste**NA** - Explosives**R** - Fish & Wildlife**R** - Hydrologic Balance**Y** - Gen. Compliance With Mine Plan**N** - Other**R** - Processing Waste**R** - Roads**Y** - Reclamation Success**R** - Revegetation**N** - Subsidence**R** - Slides and Other Damage**R** - Support Facilities On-site**R** - Signs and Markers**R** - Support Facilities Not On-site**Y** - Special Categories Of Mining**R** - Topsoil**COMMENTS**

A complete inspection was conducted by Rob Zuber of DRMS on November 17, 2021. Basil Bear of Bowie Resources, LLC (BRL) accompanied Rob to Gob Pile #3, but did not participate in the rest of the field inspection.

BRL continues to focus their efforts on Gob Pile #3. During the inspection, BRL staff were hauling material from the top of the pile to the eastern side. Basil indicated that they have removed approximately six feet off the top of the pile in the past two months. Basil also indicated that BRL's engineering consultant (Huddleston-Berry Engineering & Testing) plans to perform compaction testing on the east portion of the pile on November 22, 2021.

The weather was clear and seasonably warm. The ground was mostly dry.

AIR RESOURCE PROTECTION – Rule 4.17:

No issues with fugitive dust from roads, Gob Pile #3, or other parts of the mine were observed.

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

The records were found to be well organized and complete. A list of records is provided at the end of this report.

FISH and WILDLIFE – Rule 4.18:

Many deer were seen on site.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2

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:

No significant problems were seen with ditches or culverts around the site. Near the Filter Building, an obstruction was observed in the Deer Trail Ditch. BRL should repair this prior to use of the ditch in 2022 or notify the ditch company of the problem.

Six sediment ponds were inspected: B, C, D, F, J, and K. None of the ponds were discharging. All of the ponds contained water from recent precipitation, but none of the ponds were close to full. (In Pond K, there was no standing water but the soil was muddy.) The water in Pond J was approximately 8 feet below the emergency spillway. No significant problems were identified with embankments, spillways, inlet channels, or other features of the ponds. The amount of vegetation in the Pond J should be monitored, and some vegetation should be removed if the amount significantly impacts the storage capacity of the pond.

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

Drainage Control; Surface Stabilization; Placement:

On the upper and lower lifts of Gob Pile #2 only small rills were observed. Overall the pile appeared stable. The drainage control practices on the upper (flat) portion of this pile appear to be functioning well, although it is recommended that BRL create a ditch to prevent erosion at the east end of the pile. No puddles were observed on the pile.

No issues were seen at Gob Pile #3, where BRL staff have been focusing their reclamation activities. Per Basil Bear, the material moved to the east side to be spread and compacted contains a good amount of moisture, not too dry or too wet. .

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 significant problems were seen with the road to the portals, although some small areas of the road may require repairs in the next year or two to prevent larger problems. The hillsides above and below this road were generally stable.

The road to Gob Pile #2 was generally in good condition, although maintenance is recommended near the top of the pile.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2

REVEGETATION – Rule 4.15**Vegetative Cover; Timing:**

Weeds were observed at the following locations and should be controlled: mullein plants near the Material Storage Area beside Topsoil Stockpile A, and knapweed near the water tank.

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. The Division recommends that these continue to be monitored closely by BRL.

SUPPORT FACILITIES - Rule 4.04:

All benches appeared stable with no signs of erosion. These include the pads for the Utility Bench, B Portal bench and the D Portal bench. Other comments on facilities:

- The asphalt surface at the entrance to the B Portal bench is damaged and requires maintenance.
- The slope below the storage area near Pond D is stable.
- No problems were seen in the area around the Pump House and Filter Building.
- No erosion was seen on the slopes near the Preparation Plant and nearby water tank.
- The SAEs adjacent to and below the Engineering Office are well vegetated and no erosion was seen.
- The slopes above and below the Coal Stockpile Pad are stable.
- The material storage area beside Topsoil Stockpile A is very stable.
- No erosion or other problems were seen along the conveyor corridors.
- No erosion or other problems were identified at the eastern portion of the Unit Train Loadout.

SIGNS AND MARKERS – Rule 4.02:

Disturbance markers, topsoil stockpile markers, and entrance signs were seen in many locations, and no compliance issues were noted.

OFFSITE SUPPORT FACILITIES - Rule 4.04, 4.28:

No problems were seen at the sites along the Hubbard Creek Road. This includes the reclaimed pad at the former Hubbard Creek Vent Shaft and the Rock Laydown area.

TOPSOIL – Rule 4.06

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

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2

At topsoil stockpiles and coverfill piles, berms, vegetation, and silt fence are keeping these resources in place.

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: 3

Number of Complete Inspections this Fiscal Year: 2

PHOTOGRAPHS



Material dumping on Gob Pile #3, prior to spreading and compacting



Upper portion of D Portal bench

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2



Slope below the D Portal bench



Slump at Curve 11

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2



Slump above B Portal



Channel above Pond F

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2



Gob Pile #2, middle portion



Gob Pile #2, sediment sump

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2



Gob Pile #2, upper portion



Gob Pile #2, area where a new ditch is recommended

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2



Pond F



Topsoil stockpile near Pond J

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2

AVAILABILITY OF RECORDS**PERMIT RECORDS**

DRMS Permit	Exp. 4 April 2022
Permit Application w/Revisions	yes
Findings Document	RN4, 20 Novmbr. 2017
Insurance Certificate	Expires 1 May 2022
Bond Documents	SEE COMMENT 1
Phased Bond Release Documents/Findings	SL2, 30 Decmbr. 2016
Air Emission Permits	98DL0726 Exp. 2024
County Special Use Permits	NA
UG Mining Landowner Notification	Several years
Subsidence Monitoring Reports	NA
Subsidence Monitoring Data	NA
Rill & Gully Survey	March 31, 2021
Vegetation Monitoring Data	NA
Specific Variance Approvals	NA
Annual Reclamation Reports	2020
Midterm Review Documents	MT5, 3 October 2019
DRMS/OSM Inspection Reports/Enforcement Actions	Through October 2021
Transfers/Succession of Operator	10 August 2009
Temporary Cessation Notification	NA
Reclamation Cost Estimate	SEE COMMENT 2

CERTIFICATIONS

Pond Certifications	2Q 2021
Fill Certifications for Underground Development Waste	Vol. IV for Gob Pile #1
• Quarterly Inspections	2Q 2021
• Compaction Testing	July 2021
• Final Certification	NA
Certs. for Coal Processing Waste Banks	Vols IX, XI (Gob Piles 2, 3, 4)
Haul Road Certifications	Yes, 2013
Access Road Certifications	Map 15 series

HYDROLOGIC RECORDS

NPDES Permit	CO-0044776, Exp.Sept. 2024
NPDES Records (DMRs)	Through October 2021
Stormwater Management Plan	Revised January 2020
SPCC Plan	May 2013
MSHA Pond Inspections	NA
State Engineer's Pond Inspection	NA
Quarterly Pond Inspections	2Q 2021
Annual Hydrology Reports	2020
• Ground Water Monitoring	yes
• Surface Water Monitoring	yes
• Spring & Seep Monitoring	NA
• Mine Water Discharge Monitoring	NA
• Mine Inflow Study	NA
• Water Consumption Records	NA
Well Permits	NA

BLASTING RECORDS

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

ADDITIONAL RECORDS (specify)

SWMP Report	2020

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

COMMENTS:

1. Bond documents entail five corporate sureties (Lexon Company) for total of \$10,971,057.58:
 - Bond # 1071397 for \$3,154,277.10
 - Bond # 1071402 for \$1,024,357.97
 - Bond # 1071403 for \$2,500,000.00
 - Bond # 1071404 for \$2,217,169.51
 - Bond # 1071405 for \$2,075,253.00.

2. The RCE for MT-05 totaled \$10,149,223. Additional \$311 from TR-119.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 2