



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>

Fri, Oct 22, 2021 at 9:54 AM

Basil -

Please see attached report for the Bowie No. 2 Mine. I did not remember to discuss this with you yesterday, but please look at the slump above the B Portal. It looks to me like it is getting worse and requires maintenance.

Thanks for your time this week.
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_10222021093400.pdf
1494K



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: October 20, 2021 Inspection Start Time: 14:00 Inspection End Date: October 20, 2021 Inspection End Time: 16:15 | | 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: <i>Robert D. Zuber</i> | | Signature Date: 10/22/2021 |

Inspection Topic Summary

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

R - Air Resource Protection**N** - Availability of Records**N** - 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**R** - Revegetation**Y** - Subsidence**R** - Slides and Other Damage**R** - Support Facilities On-site**N** - 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 October 20, 2021. Basil Bear of Bowie Resources, LLC (BRL) accompanied Rob to Gob Pile #2 and 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, the crew was moving cover material from the pile at the east side of Gob Pile #3 and moving it to the southwest corner. Other recent efforts have been to prepare the pile for winter, adjusting material to prevent ponding or other issues.

The weather was seasonably warm. The ground was partially muddy from recent storms.

AIR RESOURCE PROTECTION – Rule 4.17:

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

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 pointed out the location north of Gob Pile #3 where data is collected for the vibrating wire piezometers that are within the pile.

No problems were seen with ditches or culverts around the site.

Five sediment ponds were inspected: B, C, D, F and J. None of the ponds were discharging. All of the ponds contained water from recent precipitation, but none of the ponds were close to full. No significant problems were identified with embankments, spillways, inlet channels, or other features of the ponds.

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:**

All gob piles looked stable, with no significant erosion. No puddles were observed on Gob Pile #2. Channel T-F1, which replaced a “smart” ditch on Gob Pile #2 and is the subject of MR-206, appeared to be constructed well.

No issues were seen at Gob Pile #3, where BRL staff have been focusing their reclamation activities. All material has been removed from the drying area on the east side, and this area has been graded to achieve positive drainage. Small puddles on top are due to recent rains, but these do not appear to be problematic.

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 road to the portals and Utility Bench. The hillsides above and below this road appear very stable.

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

Weeds were observed at the following locations and should be controlled: Mullein and Russian thistle on the bench above, and east of, the D Portal.

SLIDES and DAMAGE - Rule 4.12:

It appears that the slump above the B Portal has gotten worse. This requires attention by BRL.

SUPPORT FACILITIES - Rule 4.04:

No problems were identified at the facility areas. All benches appeared stable with no signs of erosion beneath them. These include the pads for the B Portal and the D Portal. Other comments on facilities:

- The BMPs below the storage bench east of the D Portal pad are functioning.
- 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.
- The slope above the Utility Bench is stable.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1

TOPSOIL – Rule 4.06

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

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: 1

PHOTOGRAPHS



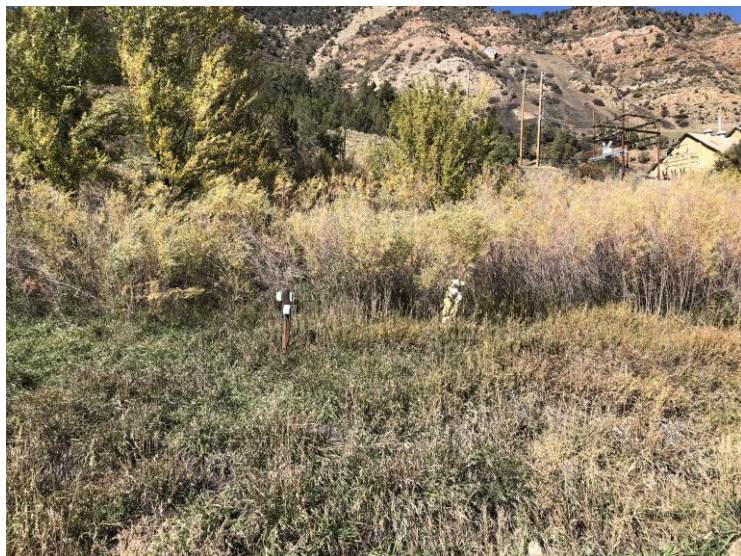
Gob Pile #3 – southwest corner where coverfill material has been recently placed



Gob Pile #3 from road above

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Data collection location for VWP's under Gob Pile #3



Pond F

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Ditch T-F1 on Gob Pile #2 (recently constructed to replaced “smart” ditch)



Slump at Curve 11

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Slump above B Portal bench – appears to be worse



Pond J

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1