



STATE OF  
COLORADO

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

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## Bowie 1 inspection report

1 message

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

Fri, Oct 22, 2021 at 1:17 PM

Basil -

Please see the attached report.

Regards,  
Rob

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



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

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**INSP-REPORTC\_C1981038\_RDZ\_10222021010055.pdf**  
1778K



**COLORADO**  
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Mining and Safety  
Department of Natural Resources

**PERMIT INFORMATION**

<b>Permit Number:</b> C-1981-038 <b>Mine Name:</b> Bowie No. 1 Mine <b>Operator:</b> Bowie Resources, LLC <b>Operator Address:</b> Mr. Basil R Bear P.O. Box 1488 Paonia, CO 81428	<b>County:</b> Delta <b>Operation Type:</b> Underground <b>Permit Status:</b> Active <b>Ownership:</b> Private
	<b>Operator Representative Present:</b>  Basil Bear
<b>Operator Representative Signature: (Field Issuance Only)</b>  	

**INSPECTION INFORMATION**

<b>Inspection Start Date:</b> October 21, 2021 <b>Inspection Start Time:</b> 07:15 <b>Inspection End Date:</b> October 21, 2021 <b>Inspection End Time:</b> 10:00		<b>Inspection Type:</b> Coal Partial Inspection <b>Inspection Reason:</b> Normal I&E Program <b>Weather:</b> Clear	
<b>Joint Inspection Agency:</b>  None		<b>Joint Inspection Contacts:</b>  	
<b>Post Inspection Agency:</b>  None		<b>Post Inspection Contacts:</b>  	
<b>Inspector(s):</b>  Robert Zuber, P.E.	<b>Inspector's Signature:</b>  <i>Robert D. Zuber</i>		<b>Signature Date:</b>  10/22/2021

**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

N - Backfill &amp; Grading

N - Excess Spoil and Dev. Waste

NA - Explosives

R - Fish &amp; Wildlife

R - Hydrologic Balance

Y - Gen. Compliance With Mine Plan

N - Other

N - Processing Waste

R - Roads

R - Reclamation Success

N - Revegetation

N - Subsidence

N - Slides and Other Damage

NA - Support Facilities On-site

N - Signs and Markers

R - Support Facilities Not On-site

N - Special Categories Of Mining

N - Topsoil

**COMMENTS**

A partial inspection was conducted by Rob Zuber of DRMS on October 21, 2021. Basil Bear of Bowie Resources, LLC (BRL) participated in the field inspection at the loadout, particularly walking the 600-foot culvert. No mining or reclamation activities were being conducted at this site. BRL is focusing on Bowie No. 2 in 2021.

The weather was cool and clear, and the ground was partially muddy.

**FISH and WILDLIFE – Rule 4.18:**

Two bucks were seen at the lower portion of the East Mine. A beaver was in the long culvert at the loadout.

**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 and the Coal Storage Area (near Black Bridge Road) were dry, and no problems were identified with these ponds.

The irrigation canal that flows through the loadout (Farmers Ditch) was not running. Per Basil Bear, the ditch company stopped the flow approximately five days before this inspection. When it is in operation, the canal flows through a 600-foot long, 60-inch diameter culvert. The interior of the culvert was observed by Basil Bear and Rob Zuber and the following observations were made:

- No damage was seen for at least 100 feet from the lower end of the culvert.
- In the middle and upper portions of the culvert, standing water was encountered. At the deepest point it was approximately 16 inches deep.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1

- Near the middle of the culvert, the top is 4 inches to 6 inches shorter than at the lower end, where the culvert has not experienced any significant deformation.
- Deterioration of seams was seen near the middle of the culvert.

The Division has reviewed an engineering report from 2017 that was commissioned by the Farmers Ditch Association. Comparing observations from October 2021 to the text and photographs in the 2017 report, the Division does not find that the condition of this culvert has significantly worsened in the last four years.

#### 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 ROM area and the East Mine road are in good shape.

#### RECLAMATION SUCCESS - Rule 4.15, Rule 3:

No erosion or other problems were seen within the primary areas of the East Mine, including the Old Waste Pile and RDA. The drainage below the East Mine where the reclaimed ponds (1 – 4) are located was in good shape, as seen from the hill above (Old Waste Pile).

One area that requires maintenance is a small area east of the reclaimed pond below the RDA. The existing bails have deteriorated to the point where they do not function well. These should be replaced and others should be added to this area to address the small amount of erosion on the hill below.

No problems were seen with the Coal Storage Area by Black Bridge Road. The vegetation cover is good, with mostly grass species.

#### OFFSITE SUPPORT FACILITIES - Rule 4.04, 4.28:

The slope below the loadout is stable. No erosion or other problems were seen at the loadout area.

#### DOCUMENTS RECEIVED

#### OTHER (SPECIFY)

Number of Partial Inspection this Fiscal Year: 3

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### **ENFORCEMENT ACTIONS/COMPLIANCE**

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

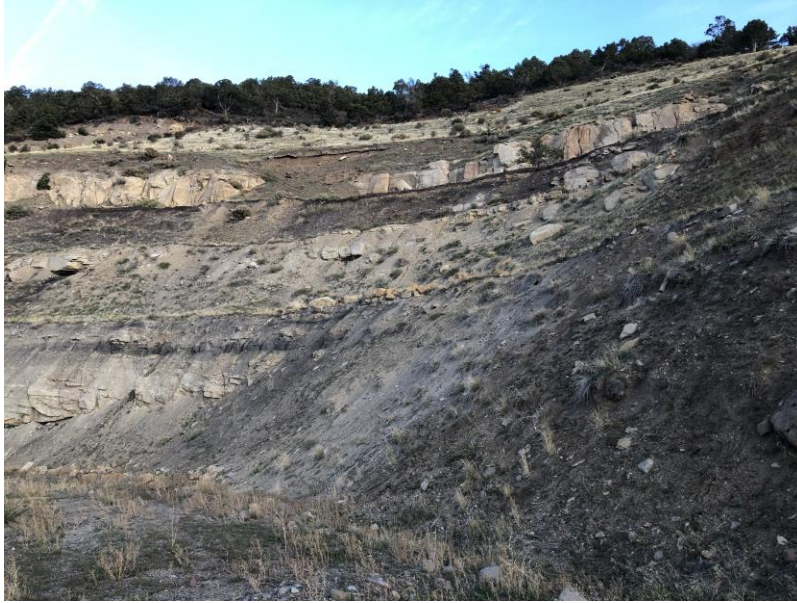
### **PHOTOGRAPHS**



**Lower portion of East Mine**

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**Cliff at East Mine**



**Upper portion of East Mine**

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**Drainage below Old Waste Pile**



**Drainage above Old Waste Pile**

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Number of Complete Inspections this Fiscal Year: 1



**Deteriorating bales below RDA at East Mine**



**Minor erosion in undisturbed area below RDA**

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Number of Complete Inspections this Fiscal Year: 1





**Coal Storage area by Black Bridge Road**

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1