




# COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY COAL PROGRAM INSPECTION REPORT



## 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 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> Federal
	<b>Operator Representative Present:</b>  None Present
<b>Operator Representative Signature: (Field Issuance Only)</b>  	

## INSPECTION INFORMATION

<b>Inspection Start Date:</b> May 8, 2013 <b>Inspection Start Time:</b> 09:00 <b>Inspection End Date:</b> May 8, 2013 <b>Inspection End Time:</b> 14:00		<b>Inspection Type:</b> Coal Complete Inspection <b>Inspection Reason:</b> Normal I&E Program <b>Weather:</b> Raining	
<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>  Susan L. Burgmaier	<b>Inspector's Signature:</b>  		<b>Signature Date:</b>  May 8, 2013

**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

R - Backfill &amp; Grading

R - Excess Spoil and Dev. Waste

NA - Explosives

Y - Fish &amp; Wildlife

R - Hydrologic Balance

Y - Gen. Compliance With Mine Plan

NA - Other

Y - Processing Waste

R - Roads

Y - Reclamation Success

R - Revegetation

Y - Subsidence

Y - Slides and Other Damage

Y - Support Facilities On-site

R - Signs and Markers

NA - Support Facilities Not On-site

NA - Special Categories Of Mining

Y - Topsoil

**COMMENTS**

This was a complete inspection of the Bowie No. 1 Mine conducted by Susan Burgmaier of DRMS. No representative of Bowie Resources, LLC (BRL) was present during the inspection, but observations from the inspection were discussed with Basil Bear of BRL when the inspection was concluded. Weather conditions at the time of the inspection were cool with a rain/snow mix; ground conditions were very wet, with water running throughout. Access to the site was gained on foot, since roads were too wet for vehicle travel.

Mining has ceased, and much of the required reclamation plan complete. The operator continues to use the loadout area as a storage and maintenance facility. A Phase I bond release is pending in the East Mine area.

**AVAILABILITY OF RECORDS – Rule 5.02.4(1):**

Records were reviewed at the Bowie No. 2 Mine office. All required records were available, as detailed in the table below.

**BACKFILL and GRADING – Rule 4.14** □ Contemporaneous Reclamation 4.14.1; Approximate Original Contour 4.14.2; Highwall Elimination 4.14.1(2)(f); Steep Slopes 4.14.2, 4.27; Handling of Acid and Toxic Materials 4.14.3; Stabilization of Rills and Gullies 4.14.6:

Regraded slopes in the East Mine, West Mine, and ROM areas were all stable with no indication of erosion or mass movement.

**EXCESS SPOIL and DEVELOPMENT WASTE – Rule 4.09** □ Placement; Drainage Control; Surface Stabilization:

Both waste disposal areas were stable and well vegetated. There were no indications of instability or surface erosion.

**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;

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**Impoundments 4.05.6, 4.05.9; Stream Buffer Zones 4.05.18:**

None of the sediment ponds held water, and very little runoff was observed on reclaimed areas.

Vegetation was adequate to control the amount of rain and snow falling at the time of the inspection. The only runoff observed was along bare road surfaces and road ditches.

The silt fences along the East Mine haul road and along Stevens Gulch in the ROM area need to be repaired or replaced. The operator indicated that this project would be completed by temporary summer crews, expected to begin in early June.

The sediment control berm at the end of the gravel storage area on the west side of the eastern portion of the loadout was not in place. It appeared that it had been worn down by travel on the adjacent roadway. The operator indicated that the neighboring landowner may have removed the berm to facilitate access to their property, and that the berm would be repaired as soon as possible. Water was running down the gravel area and pooling along the remnants of the berm.

There were sections of plastic fencing in place on the south side of the loadout substation, apparently in an effort to filter runoff from the substation pad at the top of two gullies. There two gullies, approximately 18" deep, appear to have developed sometime in the past. There was no water flowing off the pad through these gullies during the inspection, in spite of the heavy rain at the time. Nonetheless, the gullies should be repaired and silt fence or straw bales installed to prevent any offsite sediment delivery in the future.

The fan site SAE area was inspected. The area was very saturated with standing water, but no runoff beyond the disturbed area was observed.

Stevens Gulch, Roatcap Creek, and the Farmers ditch were all flowing at the time of the inspection.

**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 culvert on the West Mine haul road, near the south end of the guardrail section, was blocked on the inlet side. Water was standing on the road surface. As soon as the road is dry enough to bring in equipment, this culvert will need to be cleared.

Road ditches at the East Mine were generally in good condition. Running water was not scouring along the ditch, and velocities were being controlled by sediment basins and straw bale check dams. One section of straw bale along the East Mine haul road, near the West Ridge sediment pond, will need to be replaced (only about 6" of straw remains). The operator indicated that this would also be done by temporary crews.

The outlet of the road drainage culvert that brings water from the west side to the east side of the road, near the West Ridge refuse area, showed signs of downcutting. This outfall was discussed with the operator after the inspection. He indicated that the ditch would either be repaired or the culvert removed. Before any repairs or modifications are implemented, the approved permit application should be reviewed and revised if necessary.

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

Vegetative cover is good in most reclaimed areas, though the East Mine area appears to include an abundance of weedy annuals. The operator indicated that weed control activities would begin when weather conditions allow.

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**SIGNS AND MARKERS – Rule 4.02:**

Mine identification signs and topsoil stockpile and disturbance boundary markers were observed at the appropriate locations, and found to be in good condition.

**ENFORCEMENT ACTIONS/COMPLIANCE**

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

**PHOTOGRAPHS**

Culvert inlet on West Mine Haul Road



Standing water at location of blocked West Mine culvert



West Mine



Silt fence at ROM area on Stevens Gulch

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ROM pond



Coal storage area pond on west end of loadout



Coal storage area at west end of loadout

Gravel storage area berm location (loadout)

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East loadout sediment pond



Gravel filter SAE at east end of loadout



Plastic fencing on substation outwash (loadout)

Fan site SAE area

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West Ridge refuse area



East Mine haul road silt fence

Upper East mine benches, from crushing/screening bench



East Mine haul road silt fence

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Straw bales in need of repair along East Mine road



West Ridge sediment pond



West Ridge refuse area and lower ditch to pond

East Mine haul road silt fence

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**AVAILABILITY OF RECORDS****PERMIT RECORDS**

DRMS Permit	April 20, 2018
Permit Application w/Revisions	X B.Bear office
Findings Document	RN6
Insurance Certificate	2/1/2014
Bond Document	3 @\$5,761,290.00
Phased Bond Release	SL-2, SL-3 – need
Documents/Findings	SL-4
Air Emission Permits	9/2/2004
County Special Use Permits	NA
UG Mining Landowner Notification	X
Subsidence Monitoring Reports	X 2012
Subsidence Monitoring Data	X 2012
Rill & Gully Survey	NA
Vegetation Monitoring Data	NA
Specific Variance Approvals	X
Annual Reclamation Reports	X 2012
Midterm Review Documents	X 2010
DRMS/OSM Inspection	X
Reports/Enforcement Actions (3 Years)	
Transfers/Succession of Operator	7/29/2009
Temporary Cessation Notification	NA
Reclamation Cost Estimate	MT6 – will need SL-4

**CERTIFICATIONS**

Pond Certifications	X
Annual Certifications for Large Impoundments	NA
Fill Certifications for Excess Spoil or Underground Development Waste	X
• Quarterly Inspections	NA
• Compaction Testing	NA
• Final Certification	NA
Coal Processing Waste Banks	
Haul Road Certifications	X
Access Road Certifications	NA

**HYDROLOGIC RECORDS**

NPDES Permit	X Exp 6/30/2013
NPDES Records	1st Q 2013
Stormwater Management Plan	Apr 2009
SPCC Plan	5/1/1992
MSHA Pond Inspections	NA
	NA
State Engineer's Pond Inspection	
Quarterly Pond Inspections	X 1st Q 2013
Annual Hydrology Reports	X 2012
• Ground Water Monitoring	X
• Surface Water Monitoring	X
• Spring & Seep Monitoring	X
• Mine Water Discharge Monitoring	NA
• Mine Inflow Study	AHR
• Water Consumption Records	2011
Well Permits	NA
Annual Pond Certification	3/29/2013

**BLASTING RECORDS**

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

**ADDITIONAL RECORDS (specify)**

Stormwater Permit	Exp 9/30/2011

**COMMENTS:**

Variance from AOC MR93 and TR28

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