



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



PERMIT INFORMATION

Permit Number: C-1996-083 Mine Name: Bowie No. 2 Mine Operator: Bowie Resources, LLC Operator Address: Mr William A Bear P.O. Box 483 Paonia, CO 81428	County: Delta Operation Type: Underground Permit Status: Active Ownership: Federal and Forest
Operator Representative Present: Bill Bear and Gary Harding	
Operator Representative Signature: (Field Issuance Only)	

INSPECTION INFORMATION

Inspection Start Date: October 2, 2013 Inspection Start Time: 08:00 Inspection End Date: October 3, 2013 Inspection End Time: 09:30	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): Susan L. Burgmaier	Inspector's Signature: <i>Susan Burgmaier</i> Signature Date: 10/07/2013

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

This was a complete inspection of the Bowie No. 2 Mine conducted by Susan Burgmaier of DRMS. Bill Bear and Gary Harding of Bowie Resources, LLC were present during the inspection. Weather conditions at the time of the inspection were sunny and mild; ground conditions were dry. Coal is being produced by longwall operations in the B Seam, in Panel 13. Gob was being placed in Gob Pile #3; Gob Pile #2 was being graded and compacted.

AIR RESOURCE PROTECTION – Rule 4.17:

Roads and gob areas were being watered to control fugitive dust. The operator indicated that water was being pumped from Ponds B and C for use in dust control.

AVAILABILITY OF RECORDS – Rule 5.02.4(1):

Records were inspected at the BRL mine office. All required records were available and current, as documented in the last page of this report.

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:

The backfilled Hubbard Creek vent shaft was stable, with no indications of any recent settling.

FISH and WILDLIFE – Rule 4.18:

Several turkeys and sage grouse were observed in the Plantation Road area.

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:

Ponds B, C, D, F, and J all held water. None were being discharged during the inspection, but the operator indicated that water from Ponds B and C had been pumped out for use in the wash plant and for dust control.

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Pond K was dry. The operator indicated that Ponds B, C, and F will be cleaned this fall.

SAEs throughout the site were inspected:

The two areas near ponds C and D were in good condition, with straw bales in place as required.

The silt fence on the west end of the conveyor timber storage area was down and should be replaced.

The Terror Creek Vent shaft silt fence had been recently replaced and was correctly installed and in good condition.

The berm at GVB-B14A needed to be repaired where it had been breached by drill rig crews, and another wattle needed to be added on the outslope toe to increase the height.

Berm and wattles at GVB-B14B, C, D, and E were in good condition.

The wattles on GVB-B12D needed to be replaced.

The wattles at West Terror Creek needed to be built up or replaced.

The wattles at the Hubbard Creek vent shaft were in good condition.

There was a large gully coming off of the water tank bench adjacent to the conveyor area, extending down to the haul road just above Curve 2. Map 20 indicates that there should be a berm on the south side of the pad to direct water to the B Gulch drainage west of the conveyor. Recent storms (in excess of the 10 yr - 24 hr event) had caused flows to breach the berm. The operator indicated that the berm would be restored and the gully repaired. He also indicated that a revision may be requested to install a half-culvert or armored channel to bring drainage directly to the road ditch rather than west to B Gulch.

Terror Creek, West Terror Creek, and Hubbard Creek were all flowing at the time of the inspection.

OTHER (SPECIFY):

Gob vent boreholes along the B14 longwall panel were being developed. B14A was passively venting; B14B had been drilled and the mud pit regraded, but no pump had been attached; B14C had been drilled, and the mud pit needed to be pumped out and backfilled; B14D had been drilled, this mud pit was also still open; B14E was being graded and the mud pit excavated; a bulldozer was working on opening the road to B14F.

The annual Applicant Violator System (AVS) inspection was conducted during this inspection; documentation is attached to this report.

PROCESSING WASTE/COAL MINE WASTE PILES – Rule 4.10 and 4.11 □ Drainage Control; Surface Stabilization; Placement:

Gob Pile #2: The operator had completed grading and compaction of the end-dumped gob material cited in NOV CV-2013-004. Grading and compacting operations on Gob Pile #2 were current at the time of the inspection; accordingly, NOV CV-2013-004 is abated and terminated as a result of this inspection.

Newly generated gob material had been placed on the upper expansion area, in the center of Gob Piles #2 and #4. Compaction efforts were underway on the lower portion of the expansion area.

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Gob Pile #3: Gob was being placed on the west end of the pile, west of the haul road into the disposal area. Cover material east of the road was being salvaged and placed in the approved stockpile area.

Gob Pile #4: Cover material on the upper benches of the west end of the pile had been graded. DRMS would recommend that the material be pocked or contoured to minimize erosion until vegetation is established.

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):

Roads and road culverts and ditches were in good condition. The Old Highway 133 crossing was fairly clean, with little material being spilled by trucks hauling gob to Gob Pile #3.

REVEGETATION – Rule 4.15 □ Vegetative Cover; Timing:

The operator indicated that the cheatgrass on the roadway near GVB-D8B and GVB-D9B had been treated with Plateau about a week prior to this inspection. Observations on the morning of October 3, 2013 indicated that the treatment had not been effective; the cheatgrass did not appear to be distressed in any way. The operator indicated that the area would be evaluated again in the spring to determine whether a subsequent treatment will be required.

SUBSIDENCE – Rule 4.20:

Subsidence cracks were observed at gob vent boreholes GVB-B12D and GVB-B14A. The cracks at GVB-B14A were very minor, with no displacement, and about 5' long; the crack at GVB-B12D was approximately 8" wide, with no displacement, and about 20' long. Ponds and Spring 22 were holding water. There were no subsidence cracks visible in the vicinity of the ponds.

TOPSOIL – Rule 4.06 □ Removal 4.06.2; Substitute Materials 4.06.4(4); Storage and Protection 4.06.3; Redistribution 4.06.4:

Topsoil stockpiles were stable, vegetated, and properly identified. The topsoil stockpile at GVB-B13C needed to be sprayed for thistle.

ENFORCEMENT ACTIONS/COMPLIANCE

No enforcement actions were initiated as a result of this inspection. NOV CV-2013-004 was terminated as a result of this inspection.

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PHOTOGRAPHS



Pond C



Gob Pile #2, East side upper bench



Gob Pile #2, East side upper bench



Gob Pile #2, East side upper bench



Gob Pile #2, lower expansion area compaction



Gob Pile #2, end dumped gob on upper bench of expansion area

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Berm on Coal Stockpile bench outslope



Pond B inlet on B Gulch



Dumped gob at Gob Pile #3



Excavator trenching gob for drainage at Gob Pile #3

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Subsoil excavation at Gob Pile #3



Topsoil and subsoil removal at Gob Pile #3



Pond F from inlet side



Gully to down to water tank bench

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Spring and lower Pond 22



Spring and upper Pond 22



Drill pads GVB-B14C and -B14D



Subsidence crack at GVB-B12D

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AVAILABILITY OF RECORDS**PERMIT RECORDS**

DRMS Permit

	Exp April 4, 2017
Permit Application w/Revisions	X B.Bear office
Findings Document	4/3/2013
Insurance Certificate	2/1/2014
Bond Document	4 bonds, up to date
Phased Bond Release Documents/Findings	NA
Air Emission Permits	X
County Special Use Permits	NA
UG Mining Landowner Notification	X
Subsidence Monitoring Reports	June 2013 semiannual
Subsidence Monitoring Data	June 2013 semiannual
Rill & Gully Survey	NA
Vegetation Monitoring Data	NA
Specific Variance Approvals	NA
Annual Reclamation Reports	2012
Midterm Review Documents	X 2009
DRMS/OSM Inspection	X
Reports/Enforcement Actions (3 Years)	
Transfers/Succession of Operator	8/10/2009
Temporary Cessation Notification	NA
Reclamation Cost Estimate	PAP

CERTIFICATIONS

Pond Certifications	X binder
Annual Certifications for Ponds	March 2013
Fill Certifications for Excess Spoil or Underground Development Waste	
• Quarterly Inspections	2 nd Q 2013
• Compaction Testing	2 nd Q 2013
• Final Certification	NA
Coal Processing Waste Banks	2 nd Q 2013
Haul Road Certifications	Gob pile/main portal 11/97
Access Road Certifications	NA

HYDROLOGIC RECORDS

NPDES Permit

	X Exp 8/31/2009 renewal app. Ext. indef 8/31/2009
NPDES Records	August 2013
Stormwater Management Plan	Oct 2004 Permit Exp 9/30/2011
SPCC Plan	Dec 2005
MSHA Pond Inspections	NA
State Engineer's Pond Inspection	NA
Quarterly Pond Inspections	X 2 nd Q 2013
Annual Hydrology Reports	X 2012
• Ground Water Monitoring	X
• Surface Water Monitoring	X
• Spring & Seep Monitoring	X
• Mine Water Discharge Monitoring	AHR and NPDES
• Mine Inflow Study	AHR
• Water Consumption Records	July 2013
Well Permits	NA

BLASTING RECORDS

Blasting Publication	NA
Blasting Records (3 years)	NA
ATFE Explosives Permit	June 1 2015 kept in front office
Blasting Variances	NA
Pre-Blast Surveys	NA

ADDITIONAL RECORDS (specify)

COMMENTS:

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**AVS Annual Review
Inspection Worksheet**Date 10/3/2013Mine Name/Permit Number Bowie No. 2 Mine C1996083Inspector Signature *Susan Burgman*

Based on your ON-SITE Observation, please answer the following:

- 1) Mine ID sign
 - a) Permittee Bowie Resources, LLC
 - b) Operator Bowie Resources, LLC
 - c) MSHA ID 05-04591 (not required to be on sign)
- 2) Direct inquiry (of persons on the site)
 - a) Permittee Bowie Resources, LLC
 - b) Operator Bowie Resources, LLC
 - c) MSHA ID 05-04591
- 3) Is ownership/control information for permittee and operator noted in field consistent with what is listed in the permit application? Yes X No _____

If No, what is in conflict?

NA

DRMS is required to verify this information as specified in the AVS MOU if the permitting action was approved subsequently to the MOU (renewal, transfers and revisions). Annually as long as coal extraction from the site has not been completed, DRMS must determine whether officer/controller information is complete and accurate in AVS. In making the determination of complete and accurate information, on-site observations and direct inquiry of persons on the site is necessary. The information on this form will be verified with AML, MSHA, and EIA information in AVS. Please return the form to Mary Rodriguez to be verified in AVS.

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