




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 Chris Hansen	
Operator Representative Signature: (Field Issuance Only)	

INSPECTION INFORMATION

Inspection Start Date: November 7, 2013 Inspection Start Time: 08:10 Inspection End Date: November 7, 2013 Inspection End Time: 11:20	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): Susan L. Burgmaier Marcia L. Talvitie, P.E.	Inspector's Signature:  Signature Date: 11/12/13

Inspection Topic Summary

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

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

COMMENTS

This was a partial inspection of the Bowie No. 2 Mine conducted by Susan Burgmaier and Marcia Talvitie of the Colorado Division of Reclamation, Mining and Safety. Bill Bear and Chris Hansen of Bowie Resources, LLC (BRL) were present during the inspection. Weather conditions at the time of the inspection were sunny and cold. Ground conditions were dry. Mining is underway in Panel 13 of the B Seam workings. Gob was being hauled to Gob Pile #3, at a rate of approximately 2,000-2,500 tons per day.

AIR RESOURCE PROTECTION – Rule 4.17:

Water trucks were being used in the Gob Pile #3 area, effectively controlling fugitive dust.

FISH and WILDLIFE – Rule 4.18:

About a half dozen deer were observed near Pond F, and approximately one dozen deer were milling around the main haul road at Curve 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:

Ponds B, C, F, and J all held water; none were being discharged during the inspection. Pond F should be dewatered as soon as possible to ensure that there is adequate capacity for the design event.

The operator discussed plans to look into the use of a flocculent in some of the ponds, due to recent problems complying with the total suspended solids (TSS) limit in the approved CDPS permit. There has been some difficulty in getting the ponds dewatered in a timely manner because of the increased TSS load. The water in Ponds C, F, and J was very cloudy at the time of the inspection. The operator indicated that a request for flocculent use would be made with the Colorado Department of Health and Environment.

The operator also mentioned that Pond J may be enlarged to allow for additional settling time. We also discussed

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the options of adding a second pond or including a baffle/two cell configuration if the pond is enlarged. These options might increase settling time and also allow greater flexibility with dewatering.

Drainage at the Water Tank bench was discussed in the previous inspection report. At the time of the October inspection, a gully had formed where drainage from the bench flowed south off of the bench instead of through the culvert and into B Gulch to the west. At the time of this inspection, the operator had repaired the gully and directed drainage from the bench to the culvert. In addition to these repairs, a berm should be established along the outslope of the bench, as depicted on Map 15-1.

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

Gob Pile #2

Gob material had been end dumped on the upper bench of the northeastern area of the pile. The operator had cut trenches through the material to ensure positive drainage, and had also placed 4" flexible pipe on the outslope edge of the material to ensure that water would flow directly to the approved ditches. The operator has submitted a minor revision to the permit application that describes the function of these drain pipes.

There are three temporary culverts located along the haulage route of Gob Pile #2. Two of the culverts appear to be undersized in relation to the ditches carrying runoff to the culverts. The permit application package should be updated to include a generic description of where the culverts will be generally located, with a design (minimum diameter) for the culverts based on the currently approved drainage plan. The culverts should be replaced if the design information indicates that they are undersized.

The operator briefly discussed plans to submit a revision to further enlarge the capacity of the pile by raising the elevation of the East Diversion Ditch. We also discussed the possibility of modifying this ditch and the configuration of the pile so that the East Diversion Ditch would be a clean water ditch, to decrease the total area draining to Pond F.

West Diversion #2 ditch was clear and in good condition from the junction with C Gulch to the West Diversion Ditch #1 junction.

Gob Pile #3

Gob material was being hauled to the designated drying area on the southwestern portion of Gob Pile #3. Material from the drying area was being spread and compacted in an adjacent area just east/northeast of the drying area. The operator indicated that the first compaction testing on Gob Pile #3 was done the week prior to the inspection.

On the northwestern edge of the compacted gob, there is a steep slope of unexcavated material against which the gob is being compacted. As each lift of gob is added and compacted, material from the slope should be scraped off to ensure that the material does not slough or settle and become a conduit for water to enter the back side of the pile and saturate the gob material.

Ditch J-3, along the southern edge of the gob area, was clear and functional. The operator has constructed a berm

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along the ditch to ensure that gob material does not block the ditch. There are slots cut through the berm to allow drainage out of the gob drying area so that no water is impounded in the gob material.

Cover material was being excavated from the northeastern area of Gob Pile #3, and hauled to the approved cover fill stockpiles. The operator indicated that construction of the approved underdrain would begin the week following the inspection, weather permitting.

Gob Pile #4

Gob Pile #4 was inactive at the time of the inspection. Final grading operations have been completed, and some cover material has been placed on the western end of Bench 3.

ENFORCEMENT ACTIONS/COMPLIANCE

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

PHOTOGRAPHS



End dumped material on Gob Pile #2; drainage directed to ditch

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Cover material excavation at Gob Pile #3



Gob Drying area at Gob Pile #3



Compacted gob at Gob Pile #3; vertical wall



Gob compaction underway at Gob Pile #3



Upper bench of Gob Pile #2



Drain pipe off of upper Gob Pile #2 bench



West end of Bench #3 of Gob Pile #4



Pond F

Pond C



Pond J

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