



April 20, 2023

Mr. Zach Trujillo
Environmental Protection Specialist
Colorado Division of Reclamation, Mining & Safety
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

RE: Colowyo Coal Company L.P.
Permit No. C-1981-019
Minor Revision No. 246
Cumulative Bond Schedule Update/Blasting Map

Dear Mr. Trujillo,

Tri-State Generation and Transmission Association Inc. (Tri-State), is the parent company to Axial Basin Coal Company, which is the general partner to Colowyo Coal Company L.P. (Colowyo). Therefore, Tri-State on behalf of Colowyo is submitting minor revision 246 (MR-246) to Permit No. C-1981-019. MR-246 updates the cumulative bond schedule with the addition of a dragline conducting mining operations in the Collom Pit and Map 26B with a new structure adjacent to the Colowyo Mine.

Included in this minor revision is a change of index sheet to ease incorporation of this minor revision into the permit document. If you should have any additional questions or concerns, please feel free to contact Tony Tennyson at (970) 824-1232 at your convenience.

Sincerely,

DocuSigned by:

Chris Gilbreath

D250C711D0BF450...

Chris Gilbreath
Senior Manager,
Remediation and Reclamation

CG:TT:der

Enclosure

cc: Foster Beckett (BLM-LSFO)
Tony Tennyson (via email)
File: C. F. 1.1.1.227 - G471-11.3(21)d

CHANGE SHEET FOR PERMIT REVISIONS, TECHNICAL REVISION, AND MINOR REVISIONS

Mine Company Name: Colowyo Coal Company

Date: **April 20, 2023**

Permit Number: **C-1981-019**

Revision Description: **MR-246 Cumulative Bond
Schedule and Blasting Map**

Volume Number	Page, Map or other Permit Entry to be REMOVED	Page, Map or other Permit Entry to be ADDED	Description of Change
1	List of Maps Page x (1 page)	List of Maps Page x (1 page)	List of Maps has been updated.
1			No Change
1			No Change
1			No Change
2A			No Change
2B			No Change
2C			No Change
2D			No Change
2E			No Change
3			No Change
4			No Change
5A			No Change
5B			No Change
6	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
7	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
8	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
9	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
10	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
12	South Taylor/Lower Wilson page ix (1 page)	South Taylor/Lower Wilson page ix (1 page)	List of Maps has been updated.
13			No Change
14	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
14	Map 26A	Map 26A	Map 26A has been updated.
15			No Change
16			No Change
15	Collom Table of Contents page xii (1 page)	Collom Table of Contents page xii (1 page)	List of Maps has been updated.

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Schedule and Blasting Map**

Volume Number	Page, Map or other Permit Entry to be REMOVED	Page, Map or other Permit Entry to be ADDED	Description of Change
15	Collom Rule 4 Page 14 (1 page)	Collom Rule 4 Page 14 (1 page)	Citation to Map 26B has been revised to Map 26A.
16			No Change
17			No Change
18A			No Change
18B			No Change
18C			No Change
18D			No Change
19			No Change
20	Exhibit 13C page 3 (1 page)	Exhibit 13C page 3 (1 page)	Exhibit 13C Table of Contents has been updated.
20	Exhibit 13C pages 16 and 17 (2 pages)	Exhibit 13C pages 16 through 18 (3 pages)	Exhibit 13C Collom Pit and Temporary Spoil have been updated with dragline data.
20	Map 13C-1 Sheet 1	Map 13C-1 Sheet 1	Map 13C-1 Sheet 1 has been updated.
21	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
22	List of Maps Page 2 (1 page)	List of Maps Page 2 (1 page)	List of Maps has been updated.
22	Map 26B		Map 26B has been consolidated with Map 26A.

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RULE 4 PERFORMANCE STANDARDS

4.08 USE OF EXPLOSIVES

Explosives will be used for blasting in accordance with the procedures and specifications presented in the Section 4.08 of Volume 1. Map 26A presents distances to various structures of possible concern surrounding the mining area. Only Section 4.08.2 has changed from the Volume 1; see Sections 4.08.1 and 4.08.3 through 4.08.6 in Volume 1.

4.08.2 Pre-Blast Survey

In accordance with Rule 4.08.2(1), pre-blast surveys will be offered to owners of all structures within one-half mile of the permit area 30 days before initiation of blast activities. Please see Exhibit 14, Item 8, Figure 1 for structures located within a half-mile of the the permit area. Pre-blast survey offerings will be made to the owners shown on Exhibit 14, Item 8, Figure 1. Should any owner of a structure request a pre-blast survey, the survey will occur prior to commencement of blasting activities, and copies of completed assessments will be included in Exhibit 14, Item 8 after the structure assessments have been completed. All blasting within the Collom area will be conducted in accordance with the blasting parameters described in Volume 1, Section 2.05, Blasting.

Blasting Records

Colowyo will keep a record of each individual blast by utilizing report formats shown in Volume 1, Figure 2.05-2 - Blasting Report (coal and overburden), and Volume 1, Figure 2.05-3 – Colowyo Chargeweight Sheet (overburden only).

Colorado Oil and Gas Registered Facility Locations

There are three locations within the permit boundary extension for the Collom Mining Area (Map 11B – Drill Hole Locations) that are identified in the Colorado Oil and Gas Conservation Commission database. They are described as follows:

- 1) ID# 05-081-07203 – Plugged and abandoned oil exploration well. Owned by Infinity Oil & Gas of Wyoming, completed in December, 2004. Plugged and abandoned July, 2005.
- 2) ID# 05-081-06328 – Plugged and abandoned oil exploration well. Owned by Tiger Oil Company, completed February, 1978. Plugged and abandoned February, 1978.
- 3) ID# 05-081-06339 – Planned oil exploration well location permitted but well was not constructed and the drilling permit was allowed to expire in May, 1978. Owned by Tiger Oil Company.

4.09 DISPOSAL OF EXCESS SPOIL

Overburden removed from the Collom Pit will be stockpiled out of pit as shown on Maps 23B and 29C. Colowyo expects approximately 20% swell of excavated materials; therefore, part of the material stockpiled in the excess overburden pile will remain out of pit and will also be disposed of permanently in the Little Collom Valley Fill at the conclusion mining as shown on Map 29C. Colowyo expects the excess overburden pile to contain approximately 28 million cubic yards of overburden, with approximately 17,274,124 cubic yards remaining permanently out of pit on the ridge north of the Collom Pit, and approximately 4,103,860 cubic yards of permanent spoil to remain in the Little Collom Gulch Valley Fill. Colowyo expects 6,608,464 cuic yards of the excess overburden will come back to the Collom Pit to fill the final void left from the mining process.

Design of the Little Collom Valley Fill is provided in Volume 20 Exhibit 23 Item 3. The excess out-of-pit stockpile and the Little Collom Valley Fill will be reclaimed in accordance with the approved post

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Map 13C-1 Sheet 2 Cumulative Bond Areas
Map 13C-2 Cumulative Bond Temporary Spoil Pile Area

Collom Pit and Temporary Spoil Pile

Tables 13C-23 through 13C- 27 provide the volumes of overburden, topsoil, and reseeded acreage necessary to reclaim the Collom Pit box cut and out of pit stockpile area. There is temporary and permanent out of pit spoil (including the Little Collom Valley Fill) associated with the Collom Pit. Tables 13C-23 and 24 reflect the maximum total amount of overburden necessary to backfill and regrade the Collom Pit boxcut (not including the dragline spoils) to achieve the final approved post mine topography for the Collom Pit, and they do not include the permanent out of pit spoil. Please refer to Map 13C-2 for the final Collom Pit box cut and temporary out of pit stockpile configurations which reflect the locations associated with the volumes presented in Tables 13C-23 and 24. Please refer to Map 13C-1 which reflects the use the dragline in the Collom Pit and provides the total regrade volumes for the dragline are presented on Table 13C-31.

Table 13C-23 Collom Pit Backfill*

Area	Cut (Cubic Yards)
Collom Pit	6,608,464

*Please see to Map 13C-2

Table 13C-24 Temporary Spoil Pile Removal

Area	Total (Cubic Yards)	Haul Distance (feet)	Average Grade (%)
Temporary Spoil Pile	6,608,464	4,244	3.8

Table 13C-25 Collom Pit and Temporary Spoil Pile Topsoil

Area	Acres Disturbed	Topsoil Replacement Volume (Cubic Yards)	Haul Distance (feet)	Average Grade (%)
Collom Pit & Temporary Spoil Pile	684.4	1,412,134	5,144	3

Table 13C-26 Collom Pit and Temporary Spoil Pile Revegetation

Area	Acres to be Reseeded
Collom Pit & Temporary Spoil Pile	857.9

Table 13C-27 Topsoil Stockpile Revegetation

Topsoil Stockpile Number	Acres to be Reseeded
25A	50.9
26B	2.2
26A	24.2
36A	4.1

Table 13C-28 Collom In-Pit Drill Holes

Drill Hole Number	Plugging Requirements
Please see Exhibit 27, Item 3	

Table 13C-29 Collom Pit Power Distribution

Task	
Remove Power Lines	16,897 Feet
Topsoil Replacement	25,000 Cubic Yards
Reseed Disturbance	10.7 Acres

Table 13C-30 Clean Water Diversions

Clean Water Diversion	Overburden Replacement (cubic yards)	Topsoil Replacement (cubic yards)	Acres to be Reseeded
CWD-1	5,923	4,998	4.3

Table 13C-31 Collom Dragline

Dragline Cut Numbers	Total Regrade Volume (Dozer)	Average Dozer Grade	Average Push Distance (ft.)
Cuts 8-12	1,070,258	9.5%	66

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