



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

August 15, 2024

Tony Tennyson
Colowyo Coal Company L.P.
5731 State Highway 13
Meeker, CO 81641

Re: Colowyo Coal Mine (Permit No. C-1981-019)
Minor Revision No. 258 (MR-258)
Adequacy Review

Dear Mr. Tennyson,

After reviewing MR-258 from Colowyo Coal Company L.P. (Colowyo), the Division has the following comments:

1. The Division has performed a reclamation cost estimate to reclaim the light use access road for the 69 kV power line on the west side of Taylor Creek. The total value of this estimate is \$8,710.00 (see attached cost estimate). The Division's cost estimate is consistent with previous cost estimates approved by both the Division and Colowyo. The Division respectfully requests a response from Colowyo with any questions regarding the cost estimate or an acceptance of the Division's estimate.

If you require additional information, or have questions or concerns, please feel free to contact me at 720-868-7757 or hunter.ridley@state.co.us

Sincerely,
Hunter C. Ridley

Environmental Protection Specialist
CC: Zach Trujillo, DRMS



COST SUMMARY WORK

Task description: _____

Site: Colowyo Coal Mine

Permit Action: MR258

Permit/Job#: C1981019

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/15/2024

County: Moffat

Filename: C019-000

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Regrade brushed material from 69 kV power line road	DOZER	1	7.03	\$3,391
002	Reseed 69 kV power line road	REVEGE	1	5.00	\$3,601
<u>SUBTOTALS:</u>				12.03	\$6,992

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$141

Performance bond: 1.05

Total = \$73

Job superintendent: 6.01

Total = \$476

Profit: 10.00

Total = \$699

TOTAL O & P = \$1,390

CONTRACT AMOUNT (direct + O & P) = \$8,382

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 2.00

Total = \$168

Reclamation management and/or administration: 1.91

\$160

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,718

TOTAL BOND AMOUNT (direct + indirect) = \$8,710

BULLDOZER WORKTask description: **Regrade brushed material from 69 kV power line road**Site: **Colowyo Coal Mine**Permit Action: MR258Permit/Job#: C1981019**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 8/15/2024County: MoffatFilename: 001User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 1-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$253.16	NA
Operating Cost/Hour:	\$164.35	100
Ripper own. Cost/Hour:	\$15.77	NA
Ripper op. Cost/Hour:	\$10.35	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$482.22Total Fleet Cost/Hour: **\$482.22****MATERIAL QUANTITIES**Initial Volume: 6,413Swell factor: 1.115Loose volume: **7,150 LCY**Source of estimated volume: Division of Reclamation, Mining & Safety, Avg 9 inSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,243.2 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 7,600 feetMaterial weight: 2,100 lbs/LCYWeight description: Earth - Loam**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8180

Adjusted unit production: 1,016.94 LCY/hr

Adjusted fleet production: **1016.94** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.474/LCY

Total job time: **7.03** Hours

Total job cost: **\$3,391**

REVEGETATION WORKTask description: Reseed 69 kV power line roadSite: Colowyo Coal MinePermit Action: MR258Permit/Job#: C1981019**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 8/15/2024County: MoffatFilename: 002User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	5.3	Cost /Acre:	\$585.76
Estimated Failure Rate:	20%	Cost /Acre*:	\$468.15
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$3,104.53
Reseeding Job Cost:	\$496.24
Total Job Cost:	\$3,601
Job Hours:	5.00