



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

August 29, 2023

Stephanie Bratton Pinnt
Bratton Enterprises, Inc.
PO Box 43
Yampa, CO 80483

Re: McCoy Pit - File No. M-1981-088
Bratton Enterprises, Inc.
Surety Increase (SI-3)
Reclamation Cost Estimate Recalculation

Dear Stephanie Bratton Pinnt:

On August 29, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$332,592.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$123,648.00.

Please see the June 27, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (August 29, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after October 28, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$208,944.00
Prior Liability:	\$208,944.00
Change in Liability:	\$123,648.00
Revised Liability:	\$332,592.00
Prior Permit Acreage:	73.70



Change in Permit Acreage:	0.00
Revised Permit Acreage:	73.70
Prior Affected Acreage:	73.70
Change in Affected Acreage:	0.00
Revised Affected Acreage:	73.70

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,



Hunter C. Ridley
Environmental Protection Specialist

COST SUMMARY WORK

Task description: Updated post inspection 6/27/2023

Site: McCoy Pit

Permit Action: Inspection 06/2023

Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: HCR

State: Colorado

Abbreviation: None

Date: 7/5/2023

County: Routt

Filename: M088-HCR

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/removal of onsite structures and equipment	DEMOLISH	1	48.00	\$32,047
02a	Slope reduction to 3H:1V	DOZER	1	106.13	\$45,275
03a	Rip compacted areas	RIPPER	1	39.68	\$17,968
04a	Placement of topsoil/overburden/fine cinders	LOADER	1	84.25	\$13,036
05a	Spread topsoil/overburden/ fine cinders	DOZER	1	59.66	\$25,449
06a	Revegetate affected area	REVEGE	1	63.43	\$132,581
07a	Mobilize / demob reclamation crew and equipment	MOBILIZE	1	6.00	\$5,170
<u>SUBTOTALS:</u>				407.15	\$271,526

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$5,485

Performance bond: 1.05

Total = \$2,851

Job superintendent: 142.34

Total = \$9,263

Profit: 10.00

Total = \$27,153

TOTAL O & P = \$44,752

CONTRACT AMOUNT (direct + O & P) = \$316,278

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$15,814

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$61,066

TOTAL BOND AMOUNT (direct + indirect) = \$332,592

DEMOLITION WORK

Task description: Demo/removal of onsite structures and equipment

Site: McCoy Pit

Permit Action: Inspection 06/2023

Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 7/5/2023

County: Routt

Filename: 01a

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office building and shed	30'x8'x8'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,920.00	CF	\$0.46	\$881.66
Removal of railroad spur	2,000'	Railroad track - Ties and track	2,000.00	LF	\$15.60	\$31,200.00
Scale	20'x40'	Loading and 5 mile haul, salvage allowed - Steel frame structures	11.70	CY	\$12.50	\$146.25
Scale house	10' x 20' x 10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push	2,000.00	CF	\$0.24	\$470.60
Scale and Scale house concrete	2 bldg	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft. - Max. 200 ft. push	160.00	LF	\$15.01	\$2,402.18

Job Hours: 48.00

Subtotal
(unadjusted): \$35,100.69

Total Cost
(adjusted for location): \$32,046.93

BULLDOZER WORKTask description: Slope reduction to 3H:1VSite: McCoy Pit Permit Action: Inspection 06/2023 Permit/Job#: M1981088**PROJECT IDENTIFICATION**

Task #: 02A State: Colorado Abbreviation: None
 Date: 7/5/2023 County: Routt Filename: 02a
 User: HR1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$426.60
 Total Fleet Cost/Hour: **\$426.60**

MATERIAL QUANTITIES

Initial Volume: 127,083
 Swell factor: 1.255
 Loose volume: **159,489 LCY**

Source of estimated volume: Attached
 Source of estimated swell factor: N/A

HOURLY PRODUCTION

Average push distance: 100 feet
 Unadjusted hourly production: 852.6 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: -15 %
 Average site altitude: 7,800 feet

Material weight: 950 lbs/LCYWeight description: Cinders**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.100</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	2.421	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.7626

Adjusted unit production: 1,502.79 LCY/hr

Adjusted fleet production: **1502.79** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.284/LCY

Total job time: **106.13** Hours

Total job cost: **\$45,275**

BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: McCoy Pit Permit Action: Inspection 06/2023 Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 7/5/2023 County: Routt Filename: 03a
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 1-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper Ownership Cost/Hour:	\$17.40	NA
Ripper Operating Cost/Hour:	\$8.74	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$452.74	
Total Fleet Cost/Hour:	\$452.74	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 20.00 acres Rip Depth (ft): 2.00 Volume: 64,533 BCY or CCY

Source of estimated quantity: AM2 Exhibit L

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 3.71 feet/pass
Average Ripping Width: 5.56 feet/pass
Average Ripping Length: 200.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.607 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.607 Acres/hr
Site Altitude: 7,800 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.50 Acres/hr
Adjusted Hourly Fleet Production: **0.50** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **39.69** Hours

Unit cost: \$898.407 Per acre Total job cost: **\$17,968**

WHEEL LOADER – LOAD AND CARRY WORKTask description: Placement of topsoil/overburden/fine cindersSite: McCoy Pit Permit Action: Inspection 06/2023 Permit/Job#: M1981088**PROJECT IDENTIFICATION**

Task #: 04A State: Colorado Abbreviation: None
 Date: 7/5/2023 County: Routt Filename: 04a
 User: HR1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 972H Horsepower: 287
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$57.78	NA
Operating Cost/Hour:	\$56.23	100
Operator Cost/Hour:	\$40.71	NA
Total Unit Cost/Hour:	\$154.72	
Total Fleet Cost/Hour:	\$154.72	

MATERIAL QUANTITIES

Initial volume: 16,134 CCY Swell factor: 1.000
 Loose volume: 16,134 LCY

Source of estimated volume: AM2 Exhibit L
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTIONLoader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.020	minutes
Adjusted Basic Cycle Time:		0.505	minutes

Rolling Resistance – Road Conditions

Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0
 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	500	0.00	8.00	8.00	0.5808	(Cat HB)
Return Route:	500	0.00	8.00	8.00	0.5162	(Cat HB)

Total Travel Time: 1.0970 minutes
 Total Cycle Time: 1.6020 minutes

Load Bucket Capacity

Rated Capacity: 5.60 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 6.16 LCY

Job Condition Correction Factors

Site Altitude: 7800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 230.71 LCY/Hour
 Adjusted Hourly Unit Production: 191.49 LCY/Hour
 Adjusted Hourly Fleet Production: 191.49 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 84.25 Hours
 Unit cost: \$0.808 /LCY Total job cost: \$13,036

BULLDOZER WORKTask description: Spread topsoil/overburden/ fine cindersSite: McCoy PitPermit Action: Inspection 06/2023Permit/Job#: M1981088**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 7/5/2023County: RouttFilename: 05aUser: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 16,134Swell factor: 1.000Loose volume: **16,134 LCY**Source of estimated volume: AM2 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 7,800 feetMaterial weight: 2,500 lbs/LCYWeight description: Clay - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5498

Adjusted unit production: 270.45 LCY/hr

Adjusted fleet production: **270.45** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.577/LCY

Total job time: **59.66** Hours

Total job cost: **\$25,449**

REVEGETATION WORKTask description: Revegetate affected areaSite: McCoy PitPermit Action: Inspection 06/2023Permit/Job#: M1981088**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 7/5/2023County: RouttFilename: 06aUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	20.00	pound	\$0.50	\$9.93
			Total Fertilizer Materials Cost/Acre	\$9.93

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Pubescent Wheatgrass - Luna	8.40	17.36	\$28.56
Needle and Thread	3.00	7.92	\$125.55
Western Wheatgrass - Native	9.60	24.24	\$57.60
Basin Wildrye - Trailhead	6.60	26.82	\$101.71
Totals Seed Mix	27.60	76.34	\$313.42

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre	\$232.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$894.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$137.18

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:	63.43	Cost /Acre:	\$1,741.83
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,741.83
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$110,484.28		
Reseeding Job Cost:	\$22,096.86		
Total Job Cost:	\$132,581		
Job Hours:	63.43		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize / demob reclamation crew and equipment**Site: **McCoy Pit**Permit Action: **Inspection 06/2023**Permit/Job#: **M1981088****PROJECT IDENTIFICATION**

Task #: **07A** State: **Colorado** Abbreviation: **None**
 Date: **7/5/2023** County: **Routt** Filename: **07a**
 User: **HR1**

Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**

Shift basis: **1 per day**
 Cost Data Source: **CRG Data**

Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
CAT 972H	28.00	\$57.78	\$158.17	1	\$215.95	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Subtotals:					\$704.52	\$398.63	\$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44
Subtotals:			\$27.44	\$27.44

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: EAGLE
 Total one-way travel distance: 35.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$5,115.34
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$54.88
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time: 6.00 Hours

Total job cost: \$5,170