



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

October 13, 2023

Jaime Sessions
Glenn E Sessions & Sons, Inc.
33492 Hwy 125
P.O. Box 1076
Walden, CO 80480

Re: Bond Pit - File No. M-2007-035
Glenn E Sessions & Sons, Inc.
Surety Increase (SI-1)
Bond increase to \$59,560

Dear Jaime Sessions:

On October 13, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$59,560.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$24,033.00.

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 (October 13, 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 December 12, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$35,527.00
Prior Liability:	\$35,527.00
Change in Liability:	\$24,033.00
Revised Liability:	\$59,560.00
Prior Permit Acreage:	20.31



Change in Permit Acreage:	0.00
Revised Permit Acreage:	20.31
Prior Affected Acreage:	20.31
Change in Affected Acreage:	0.00
Revised Affected Acreage:	20.31

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 2023

Site: Bond Pit

Permit Action: Insp 2023

Permit/Job#: M2007035

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/6/2023

County: Jackson

Filename: M035-000

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade 1,125 LF of 6' Avg Height Highwall	DOZER	1	5.53	\$2,359
002	Replace 12" of Overburden - 4 Acres	DOZER	1	40.11	\$17,112
003	Replace 6" Topsoil - 7 Acres	DOZER	1	20.80	\$8,872
004	Revegetate - 7 Acres	REVEGE	1	7.00	\$12,733
005	Mob / Demob	MOBILIZE	1	13.14	\$4,648
<u>SUBTOTALS:</u>				86.58	\$45,724

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$924

Performance bond: 1.05

Total = \$480

Job superintendent: 43.29

Total = \$2,817

Profit: 10.00

Total = \$4,572

TOTAL O & P = \$8,793

CONTRACT AMOUNT (direct + O & P) = \$54,517

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,317

Reclamation management and/or administration: 5.00

\$2,726

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$13,836

TOTAL BOND AMOUNT (direct + indirect) = \$59,560

BULLDOZER WORKTask description: **Grade 1,125 LF of 6' Avg Height Highwall**Site: **Bond Pit** Permit Action: Insp 2023 Permit/Job#: M2007035**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None
 Date: 9/25/2023 County: Jackson Filename: 001
3:15:23 PM
 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: 3,000
 Swell factor: 1.124
 Loose volume: **3,371 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -10 %
 Average site altitude: 8,100 feet

Material weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4354

Adjusted unit production: 609.56 LCY/hr

Adjusted fleet production: **609.56** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.700/LCY

Total job time: **5.53** Hours

Total job cost: **\$2,359**

BULLDOZER WORKTask description: **Replace 12" of Overburden - 4 Acres**Site: **Bond Pit** Permit Action: Insp 2023 Permit/Job#: M2007035**PROJECT IDENTIFICATION**

Task #: 002 State: Colorado Abbreviation: None
 Date: 9/25/2023 County: Jackson Filename: 002
3:15:36 PM
 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: 6,453
 Swell factor: 1.000
 Loose volume: **6,453 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 250 feet
 Unadjusted hourly production: 377.8 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -5 %
 Average site altitude: 8,100 feet

Material weight: 2,700 lbs/LCYWeight description: Sand and clay - Loose**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4258

Adjusted unit production: 160.87 LCY/hr

Adjusted fleet production: **160.87** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.652/LCY

Total job time: **40.11** Hours

Total job cost: **\$17,112**

BULLDOZER WORKTask description: **Replace 6" Topsoil - 7 Acres**Site: **Bond Pit** Permit Action: Insp 2023 Permit/Job#: M2007035**PROJECT IDENTIFICATION**

Task #: 003 State: Colorado Abbreviation: None
 Date: 9/25/2023 County: Jackson Filename: 003
3:17:38 PM
 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: 5,646
 Swell factor: 1.000
 Loose volume: **5,646 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 250 feet
 Unadjusted hourly production: 377.8 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -5 %
 Average site altitude: 8,100 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7186

Adjusted unit production: 271.49 LCY/hr

Adjusted fleet production: **271.49** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.571/LCY

Total job time: **20.80** Hours

Total job cost: **\$8,872**

REVEGETATION WORKTask description: Revegetate - 7 AcresSite: Bond PitPermit Action: Insp 2023Permit/Job#: M2007035**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 9/25/2023County: JacksonFilename: 0043:18:58 PMUser: 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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alsike Clover	1.00	15.61	\$3.83
Orchardgrass - Elsie	1.00	12.40	\$3.10
White Dutch Clover - Alice	1.00	19.51	\$6.70
Tall Fescue - Fawn E.F.	1.50	7.82	\$2.89
Western Wheatgrass - Arriba	2.50	6.31	\$16.25
Needlegrass, Green - Lodorm	2.00	8.31	\$23.55
Timothy - Climax	0.50	14.35	\$0.80
		84.31	\$57.11

Totals Seed Mix	9.50		
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Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$468.00
Total Seed Application Cost/Acre	\$468.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Total Mulch Materials Cost/Acre				\$863.58

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$159.99

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:	7	Cost /Acre:	\$1,661.50
Estimated Failure Rate:	30%	Cost /Acre*:	\$525.11
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	\$11,630.50		
Reseeding Job Cost:	\$1,102.73		
Total Job Cost:	\$12,733		
Job Hours:	7.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob / Demob**Site: **Bond Pit**Permit Action: **Insp 2023**Permit/Job#: **M2007035****PROJECT IDENTIFICATION**

Task #: **005** State: **Colorado** Abbreviation: **None**
 Date: **9/25/2023** County: **Jackson** Filename: **005**
 3:20:13 PM
 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
Subtotals:					\$399.55	\$158.17	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Subtotals:			\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>FORT COLLINS, CO</u>	
Total one-way travel distance:	<u>80.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,647.78</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>2.29</u>	<u>2.29</u>
Return Time (Hours):	<u>2.29</u>	<u>2.29</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>6.57</u>	<u>4.57</u>

JOB TIME AND COST

Total job time:	<u>13.14</u>	Hours
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Total job cost:	<u>\$4,648</u>
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