



## COLORADO

Division of Reclamation,  
Mining and Safety

Department of Natural Resources

1313 Sherman St. Room 215  
Denver, CO 80203

March 18, 2019

Mr. Nick H. Gray  
Nick H. Gray  
584 65.30 Rd.  
Montrose, CO 81401

**Re: Gray Pit #1, Permit No. M-2003-092, Financial Warranty Increase, Revision No. SI-2**

Dear Mr. Gray:

On March 18, 2019 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to **\$64,044.00**, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of **\$2,804.00** over the currently held **\$61,240.00**. Please see the enclosed reclamation cost estimate update worksheets for details.

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. If you wish to submit a different type of Financial Warranty, please contact Barbara Coria at (303) 866-3567 Ext. 8149 for applicable form. The new financial warranty must be received and accepted by the Division's Denver Office no later than **Friday May 17, 2019**. If you have any questions, please feel free to contact me at the Division's Grand Junction Field Office, by phone at (970) 243-6368 or by email at [lucas.west@state.co.us](mailto:lucas.west@state.co.us).

Sincerely,

**Lucas J. West**  
Environmental Protection Specialist

cc: Barbara J. Coria, DRMS  
Travis Marshall, Senior Environmental Protection Specialist



## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Gray Pit #1

Permit Action: 2019 Update

Permit/Job#: M2003092

### PROJECT IDENTIFICATION

Task #: 000  
Date: 3/15/2019  
User: LJW

State: Colorado  
County: Montrose

Abbreviation: None  
Filename: M092-000

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce highwalls to 2H: 1V	DOZER	1	17.39	\$4,521
002	Rip the pit floor	RIPPER	1	8.63	\$2,312
003	Topsoil 20 acres	DOZER	1	22.35	\$5,812
004	Revegetate steeper slopes	REVEGE	1	3.00	\$6,367
005	Revegetate pit floor/operations area	REVEGE	1	3.00	\$29,744
006	Mobilize to the site	MOBILIZE	1	2.50	\$3,432
<b><u>SUBTOTALS:</u></b>				<b>56.87</b>	<b>\$52,188</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 27.18  
Profit: 10.00

Total = \$1,054  
Total = \$548  
Total = \$1,985  
Total = \$5,219

TOTAL O & P = \$8,806

CONTRACT AMOUNT (direct + O & P) = \$60,994

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0  
Engineering work and/or contract/bid preparation: 0.00  
Reclamation management and/or administration: 5.00

Total = \$0  
Total = \$0  
\$3,050

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$11,856

**TOTAL BOND AMOUNT (direct + indirect) = \$64,044**

**BULLDOZER WORK**Task description: Reduce highwalls to 2H: 1VSite: Gray Pit #1Permit Action: 2019 UpdatePermit/Job#: M2003092**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 3/15/2019County: MontroseFilename: M092-001User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$110.70	NA
Operating Cost/Hour:	\$95.46	100
Ripper own. Cost/Hour:	\$12.36	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.52	NA

Total unit Cost/Hour: \$260.05Total Fleet Cost/Hour: \$260.05**MATERIAL QUANTITIES**Initial Volume: 13,287Swell factor: 1.165Loose volume: 15,479 LCYSource of estimated volume: 2,917 CY in pit, 10,370 CY around pondSource of estimated swell  
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 60 feetUnadjusted hourly  
production: 1,872.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push  
gradient: -5 %Average site altitude: 6,890 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4756

Adjusted unit  
production: 890.32 LCY/hr

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Adjusted fleet  
production: 890.32 LCY/hr

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### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

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Unit cost: \$0.292/LCY

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Total job time: 17.39 Hours

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Total job cost: \$4,521

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## BULLDOZER RIPPING WORK

Task description: Rip the pit floor

Site: Gray Pit #1

Permit Action: 2019 Update

Permit/Job#: M2003092

### PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 3/15/2019

County: Montrose

Filename: M092-002

User: LJW

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU  
Ripper Attachment: 3-Shank Ripper

Horsepower: 405  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$110.70	NA
Operating Cost/Hour:	\$95.46	100
Ripper Ownership Cost/Hour:	\$12.36	NA
Ripper Operating Cost/Hour:	\$7.88	100
Operator Cost/Hour:	\$41.52	NA
Total Unit Cost/Hour:	\$267.92	
Total Fleet Cost/Hour:	\$267.92	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 6.00 acres Rip Depth (ft): 1.50 Volume: 14,520 BCY or CCY

Source of estimated quantity: Inspection Observations and reclamation plan

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.63 mph  
Average Ripping Width: 7.67 degrees  
Average Ripping Length: 200.00 feet  
Average Dozer Speed: 88.00 feet  
Average Maneuver Time: 0.25 feet  
Production per unit area: 0.838 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.838 Acres/hr  
Site Altitude: 6,890 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.70 Acres/hr  
Adjusted Hourly Fleet Production: 0.70 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 8.63 Hours

Unit cost: \$385.397 Per acre Total job cost: \$2,312

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

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**BULLDOZER WORK**Task description: Topsoil 20 acresSite: Gray Pit #1Permit Action: 2019 UpdatePermit/Job#: M2003092**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 3/15/2019County: MontroseFilename: M092-003User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$110.70	NA
Operating Cost/Hour:	\$95.46	100
Ripper own.		
Cost/Hour:	\$12.36	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.52	NA
Total unit Cost/Hour:	\$260.05	
Total Fleet Cost/Hour:	\$260.05	

**MATERIAL QUANTITIES**Initial Volume: 13,444Swell factor: 1.000Loose volume: 13,444 LCYSource of estimated volume: Avg. 5 inches over 20 ac.Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 700.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,890 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor****Source**

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit  
production: 601.51 LCY/hr

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Adjusted fleet  
production: 601.51 LCY/hr

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### JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.432/LCY

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Total job time: 22.35 Hours

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Total job cost: \$5,812

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**REVEGETATION WORK**Task description: Revegetate steeper slopesSite: Gray Pit #1Permit Action: 2019 UpdatePermit/Job#: M2003092**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 3/15/2019County: MontroseFilename: M092-004User: LJWAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$92.77
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
<b>Total Tilling Cost/Acre</b>	<b>\$286.37</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	6.25	20.23	\$43.75
Crested Wheatgrass - Ephraim	3.00	13.77	\$11.25
Canby Bluegrass - Canbar	0.90	19.13	\$8.76
Sand Dropseed	0.10	11.94	\$1.11
Galleta	6.00	21.90	\$151.74
Saltbush, Four Wing	2.00	2.75	\$25.60
<b>Totals Seed Mix</b>	<b>18.25</b>	<b>89.73</b>	<b>\$242.21</b>

**Application**

Description	Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)	\$919.12
<b>Total Seed Application Cost/Acre</b>	<b>\$919.12</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$576.00</b>

**Application**

Description	Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)	\$629.20
<b>Total Mulch Application Cost/Acre</b>	<b>\$629.20</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 2 Cost /Acre: \$2,652.90  
 Estimated Failure Rate: 20% Cost /Acre\*: \$2,652.90  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$5,305.80  
 Reseeding Job Cost: \$1,061.16  
 Total Job Cost: \$6,367  
 Job Hours: 3.00

**REVEGETATION WORK**Task description: Revegetate pit floor/operations areaSite: Gray Pit #1Permit Action: 2019 UpdatePermit/Job#: M2003092**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 3/15/2019County: MontroseFilename: M092-005User: LJWAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$92.77
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
<b>Total Tilling Cost/Acre</b>	<b>\$286.37</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.13	10.12	\$21.88
Crested Wheatgrass - Ephraim	1.50	6.89	\$5.63
Canby Bluegrass - Canbar	0.45	9.57	\$4.38
Sand Dropseed	0.05	5.97	\$0.56
Galleta	3.00	10.95	\$75.87
Saltbush, Four Wing	1.00	1.38	\$12.80
<b>Totals Seed Mix</b>	<b>9.13</b>	<b>44.87</b>	<b>\$121.10</b>

**Application**

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
<b>Total Seed Application Cost/Acre</b>	<b>\$232.00</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$576.00</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$68.78
Power mulcher (MEANS 32 91 13.16 0350)	\$92.78
<b>Total Mulch Application Cost/Acre</b>	<b>\$161.56</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 18 Cost /Acre: \$1,377.03  
 Estimated Failure Rate: 20% Cost /Acre\*: \$1,377.03  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$24,786.54  
 Reseeding Job Cost: \$4,957.31  
 Total Job Cost: \$29,744  
 Job Hours: 3.00

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Mobilize to the siteSite: Gray Pit #1Permit Action: 2019 UpdatePermit/Job#: M2003092**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 3/15/2019County: MontroseFilename: M092-006User: LJWAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

**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 D9T - 9SU	66.13	\$123.06	\$125.45	1	\$248.51	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Hydroseeder with Tractor	28.00	\$21.19	\$117.55	1	\$138.74	\$117.55	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00

Subtotals: **\$588.46** **\$420.34** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.23	1	\$12.23	\$12.23

Subtotals: **\$12.23** **\$12.23**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>MONTROSE</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,429.12</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$3.06</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.13</u>	<u>0.13</u>
Return Time (Hours):	<u>0.13</u>	<u>0.13</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.25</u>	<u>0.25</u>

**JOB TIME AND COST**

Total job time:	<u>2.50</u>	Hours
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Total job cost:	<u>\$3,432</u>
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