

# STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY  
Department of Natural Resources

1313 Sherman St., Room 215  
Denver, Colorado 80203  
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John W. Hickenlooper  
Governor

Mike King  
Executive Director

Loretta Piñeda  
Director

September 14, 2012

Gary Woodworth  
The Gallegos Corporation  
P.O. Box 821  
Vail, CO 81658

**Re: Conger Harvesting Area, Acreage Reduction Approval, Permit No. M-1998-022, Revision No. AR-2**

Dear Mr. Woodworth:

On September 14, 2012, the Colorado Division of Reclamation, Mining and Safety (Division) approved your request for release of a portion of the permit area from further reclamation responsibility.

The permit area was reduced to 29.43 acres, through the release of 1.5 acres in this permit action. Because the permit is not totally released, you are still liable for filing annual reports and fees.

The reclamation cost to reclaim the site has been recalculated and the Division increased the current Financial Warranty for this permit to \$10,511.53, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$2,786.53.

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 me such that I may send you the applicable form.

If you have any questions, please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 South 3rd Street, Room 301, Grand Junction, Colorado 81501, phone no. (970) 241-2042.

Sincerely,

A handwritten signature in black ink, appearing to read "Travis H. Marshall".

Travis H. Marshall  
Environmental Protection Specialist

Enclosure: Reclamation Cost Update

cc: William Balaz  
Tetra Tech  
120 West Park Drive, Suite 204  
Grand Junction, CO 81505



## COST SUMMARY WORK

Task description: Reclamation Cost Estimate AR-2

Site: Conger Harvesting Area

Permit Action: AR-2

Permit/Job#: M1998022

### PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 9/13/2012

County: Gunnison

Filename: M022-001

User: THM

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade site to 2H:1V	EXCAVATE	1	15.46	\$1,570.00
02a	Rip and Grade Rock Bench	DOZER	1	22.43	\$2,977.18
03a	Revegetation	REVEGE	1	8.00	\$1,267.19
04a	Mobilization	MOBILIZE	1	6.00	\$2,308.14
<b><u>SUBTOTALS:</u></b>				<b>51.89</b>	<b>\$ \$8,122.51</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$164.07

Performance bond: 1.05

Total = \$85.29

Job superintendent: 2.00

Total = \$118.60

Profit: 10.00

Total = \$812.25

TOTAL O & P = \$1,180.21

CONTRACT AMOUNT (direct + O & P) = \$9,302.72

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$465.14

CONTINGENCY: 3.00

Total = \$243.68

TOTAL INDIRECT COST = \$2,389.02

**TOTAL BOND AMOUNT (direct + indirect) = \$10,511.53**



## HYDRAULIC EXCAVATOR WORK

Task description: Regrade site to 2H:1V

Site: Conger Harvesting Area

Permit Action: AR-2

Permit/Job#: M1998022

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 9/13/2012

County: Gunnison

Filename: M022-01a

User: THM

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 319D L 8'-10" Stick

Attachment 1: ROPS Cab

Horsepower: 125

Weight (MT): 19.55

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$22.27	NA
Operating Cost/Hour:	\$40.56	100
Operator Cost/Hour:	\$38.67	NA
Total Unit Cost/Hour:	\$101.51	
Total Fleet Cost/Hour:	\$101.51	

### MATERIAL QUANTITIES

Initial volume: 2,493

CCY

Swell factor: 1.000

Loose volume: 2,493

LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.282 minutes

#### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 1.10

LCY (heaped)

Bucket Fill Factor: 1.000

Rock - Well Blasted (95%-105%) 1.000

Adjusted Capacity: 1.10

LCY

#### Job Condition Correction Factors

Site Altitude: 7950 feet

		Source
Altitude Adj:	<u>0.83</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.69</u>	multiplier

Unadjusted Hourly Unit Production: 234.04 LCY/Hour

Adjusted Hourly Unit Production: 161.23 LCY/Hour

Adjusted Hourly Fleet Production: 161.23 LCY/Hour

### JOB TIME AND COST

Fleet size: 1

Excavator

Total job time: 15.46

Hours

Unit cost: \$0.630 /LCY

Total job cost: \$1,570.00



**BULLDOZER WORK**Task description: **Rip and Grade Rock Bench**Site: **Conger Harvesting Area**Permit Action: **AR-2**Permit/Job#: **M1998022****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **9/13/2012**County: **Gunnison**Filename: **M022-02a**User: **THM**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T**Horsepower: **185**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$34.23	NA
Operating Cost/Hour:	\$57.18	100
Ripper op. Cost/Hour:	\$2.81	100
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: **\$132.71**Total Fleet Cost/Hour: **\$132.71****MATERIAL QUANTITIES**Initial Volume: **2,630**Swell factor: **1.000**Loose volume: **2,630 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **60 feet**Unadjusted hourly production: **409.6 LCY/hr**Materials consistency description: **Rock, avg. ripped or blasted 0.7**Average push gradient: **0 %**Average site altitude: **7,920 feet**Material weight: **2,800 lbs/LCY**Weight description: **Granite - Broken****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(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:	0.821	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2862

Adjusted unit production: 117.23 LCY/hr

Adjusted fleet production: 117.23 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.132/LCY

Total job time: 22.43 Hours

Total job cost: \$2,977.18



**REVEGETATION WORK**Task description: RevegetationSite: Conger Harvesting AreaPermit Action: AR-2Permit/Job#: M1998022**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 9/13/2012County: GunnisonFilename: M022-03aUser: THMAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.32	\$64.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$64.00</b>

**Application**

Description	Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)	\$498.76
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$498.76</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	1.33	6.41	\$3.33
Orchardgrass - Latar	4.00	49.59	\$8.64
Mountain Brome - Bromar	4.00	6.43	\$13.32
Milk Vetch, Cicer - Monarch	1.67	5.56	\$8.35
Sainfoin - Eski	3.33	1.45	\$8.19
<b>Totals Seed Mix</b>	<b>14.33</b>	<b>69.44</b>	<b>\$41.83</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$255.76

	<b>Total Seed Application Cost/Acre</b>	<b>\$255.76</b>
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## MULCHING and MISCELLANEOUS

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$164.00	\$164.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$164.00</b>

## Application

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$2,807.20
<b>Total Mulch Application Cost/Acre</b>	<b>\$2,807.20</b>

## NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Fir, Douglas	5	Container, 1 gallon (MEANS)	\$13.50	\$0.00	\$67.50
Totals Nursery Stock Cost / Acre					\$67.50

### **JOB TIME AND COST**

No. of Acres:	0.25	Cost /Acre:	\$3,899.05
Estimated Failure Rate:	30%	Cost /Acre*:	\$3,899.05
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,NU RSERY,MULCHING		
Initial Job Cost:	\$974.76		
Reseeding Job Cost:	\$292.43		
Total Job Cost:	\$1,267.19		
Job Hours:	8.00		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization**Site: **Conger Harvesting Area**Permit Action: **AR-2**Permit/Job#: **M1998022****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **9/13/2012**County: **Gunnison**Filename: **M022-04a**User: **THM**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 D6T	23.25	\$31.46	\$88.67	1	\$120.13	\$88.67	\$250.00
Cat 319D L 8'-10" Stick	21.50	\$22.27	\$88.67	1	\$110.94	\$88.67	\$250.00

Subtotals: **\$231.07** **\$177.34** **\$500.00****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.	\$14.59	1	\$14.59	\$14.59

Subtotals: **\$14.59** **\$14.59**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>CARBONDALE</u>	
Total one-way travel distance:	<u>25.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,278.96</u>
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\* two round trips with haul rig:

Total Roadable Mob/Demob Cost **	<u>\$29.18</u>
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\*\* 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:	<u>6.00</u>	Hours
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Total job cost:	<u>\$2,308.14</u>
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