



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

January 6, 2023

Ralph Martinez  
Asphalt Gravel Products, Inc.  
117 White Pine Drive  
Alamosa, CO 81101

**Re: Garrett Pit - File No. M-1978-271**  
**Asphalt Gravel Products, Inc.**  
**Surety Increase (SI-2)**  
**Surety increase following routine monitoring inspection**

Dear Ralph Martinez:

On January 6, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$204,088.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$22,333.00.

Please see the September 6, 2022 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 (January 6, 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 March 7, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$181,755.00
Prior Liability:	\$181,755.00
Change in Liability:	\$22,333.00
Revised Liability:	\$204,088.00
Prior Permit Acreage:	640.00



Change in Permit Acreage:	0.00
Revised Permit Acreage:	640.00
Prior Affected Acreage:	60.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	60.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8185, or by email at Clayton.wein@state.co.us.

Sincerely,



Clayton C. Wein  
Environmental Protection Specialist

cc: Katie Todt

M-GR-04

## COST SUMMARY WORK

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

Site: Garrett Pit

Permit Action: 2022 Routine Update

Permit/Job#: M1978271

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/14/2022

County: Conejos

Filename: M271-000

User: CCW

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Highwall Reduction from 0.5H:1V to 3H:1V	DOZER	1	14.52	\$5,058
002	Grade & Rip Pit Floor, prepare for topsoil replacement	DOZER	1	97.54	\$34,397
003	Topsoil Replacement across 60 Ac Disturbed area	DOZER	1	17.22	\$5,958
004	Reveg 60 Acres Disturbed lands	REVEGE	1	24.00	\$123,837
005	Haul reclamation equipment to and from job site	MOBILIZE	1	2.20	\$2,231
<b><u>SUBTOTALS:</u></b>				<b>155.48</b>	<b>\$171,481</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,464

Performance bond: 1.05

Total = \$1,801

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$17,148

TOTAL O & P = \$22,413

CONTRACT AMOUNT (direct + O & P) = \$193,894

#### 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

\$9,695

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$32,607

**TOTAL BOND AMOUNT (direct + indirect) = \$204,088**

**BULLDOZER WORK**Task description: **Highwall Reduction from 0.5H:1V to 3H:1V**Site: **Garrett Pit**Permit Action: **2022 Routine Update**Permit/Job#: **M1978271****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **9/14/2022**County: **Conejos**Filename: **M271-001**User: **CCW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D9T - 9SU**  
 Horsepower: **405**  
 Blade Type: **Semi-Universal**  
 Attachment: **3-shank ripper**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own. Cost/Hour:	\$17.01	NA
Ripper op. Cost/Hour:	\$2.21	25
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$348.23	
Total Fleet Cost/Hour:	<b>\$348.23</b>	

**MATERIAL QUANTITIES**

Initial Volume: **14,000**  
 Swell factor: **1.000**  
 Loose volume: **14,000 LCY**

Source of estimated volume: **See attached drawing, "Highwall Reduction..."**  
 Source of estimated swell factor: **NA**

**HOURLY PRODUCTION**

Average push distance: **50 feet**  
 Unadjusted hourly production: **2,110.5 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **-15 %**  
 Average site altitude: **7,750 feet**

Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4567

Adjusted unit  
production: 963.87 LCY/hr  
Adjusted fleet  
production: **963.87** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.361/LCY

Total job time: **14.52** Hours  
Total job cost: **\$5,058**

**BULLDOZER WORK**Task description: **Grade & Rip Pit Floor, prepare for topsoil replacement**Site: **Garrett Pit** Permit Action: **2022 Routine Update** Permit/Job#: **M1978271****PROJECT IDENTIFICATION**

Task #: **002** State: **Colorado** Abbreviation: **None**  
 Date: **9/14/2022** County: **Conejos** Filename: **M271-002**  
 User: **CCW**

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

Basic Machine: **Cat D9T - 9SU**  
 Horsepower: **405**  
 Blade Type: **Semi-Universal**  
 Attachment: **3-shank ripper**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own. Cost/Hour:	\$17.01	NA
Ripper op. Cost/Hour:	\$6.64	75
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$352.66**  
 Total Fleet Cost/Hour: **\$352.66**

**MATERIAL QUANTITIES**

Initial Volume: **46,141**  
 Swell factor: **1.000**  
 Loose volume: **46,141 LCY**

Source of estimated volume: **(28.6ac)(43560sf/ac)(1'D) / 27 = 46,141 cy**  
 Source of estimated swell factor: **NA**

**HOURLY PRODUCTION**

Average push distance: **75 feet**  
 Unadjusted hourly production: **1,514.3 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **0 %**  
 Average site altitude: **7,750 feet**

Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3124

Adjusted unit  
production: 473.07 LCY/hr  
Adjusted fleet  
production: **473.07** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.745/LCY

Total job time: **97.54** Hours  
Total job cost: **\$34,397**

**BULLDOZER WORK**Task description: Topsoil Replacement across 60 Ac Distrubed areaSite: Garrett PitPermit Action: 2022 Routine UpdatePermit/Job#: M1978271**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 9/14/2022County: ConejosFilename: M271-003User: CCWAgency 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:	\$146.30	NA
Operating Cost/Hour:	\$141.41	100
Ripper own.	\$17.01	NA
Cost/Hour:		
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$346.02Total Fleet Cost/Hour: \$346.02**MATERIAL QUANTITIES**Initial Volume: 20,166Swell factor: 1.000Loose volume: 20,166 LCYSource of estimated volume: 60 Ac, 2.5" depth = 20,166 CYSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,514.3 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 7,730 feetMaterial weight: 1,600 lbs/LCYWeight description: Top SoilJob Condition Correction FactorSource



Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.200	(S-BY-S)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7734

Adjusted unit  
production: 1,171.16 LCY/hr  
Adjusted fleet  
production: **1171.16** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.295/LCY

Total job time: **17.22** Hours  
Total job cost: **\$5,958**

**REVEGETATION WORK**Task description: Reveg 60 Acres Disturbed landsSite: Garrett PitPermit Action: 2022 Routine UpdatePermit/Job#: M1978271**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 9/14/2022County: ConejosFilename: M271-004User: CCWAgency 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
<b>Total Tilling Cost/Acre</b>	<b>\$117.18</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.50	4.86	\$9.75
Bottlebrush Squirreltail	0.25	1.10	\$4.06
Burnett, Small (or Little) - Delar	1.00	1.26	\$2.50
Galleta	1.50	5.48	\$33.53
Rabbitbrush, Rubber	0.25	3.72	\$16.07
Daisy, Goldenglow	0.50	2.72	\$120.00
Saltbush, Four Wing	0.25	0.34	\$3.13
Globemallow, Scarlet (or copper)	0.25	2.83	\$33.88
Saltbush, Shadscale	0.25	0.37	\$2.50
Winter Fat	0.25	0.64	\$5.13

Sulphur Flower (or Buckwheat)	1.00	2.07	\$129.00
<b>Totals Seed Mix</b>	7.00	25.39	<b>\$359.53</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	\$421.36	\$842.72
<b>Total Mulch Materials Cost/Acre</b>				<b>\$842.72</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
<b>Total Mulch Application Cost/Acre</b>	<b>\$135.72</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:	60	Cost /Acre:	\$1,687.15
Estimated Failure Rate:	24%	Cost /Acre*:	\$1,569.97
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	<b>\$101,229.00</b>		
Reseeding Job Cost:	<b>\$22,607.57</b>		
Total Job Cost:	<b>\$123,837</b>		
Job Hours:	<b>24.00</b>		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Haul reclamation equipment to and from job siteSite: Garrett PitPermit Action: 2022 Routine UpdatePermit/Job#: M1978271**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 9/14/2022County: ConejosFilename: M271-005User: CCWAgency 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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	\$163.31	\$136.92	1	\$300.23	\$136.92	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$500.00
Subtotals:					<b>\$374.70</b>	<b>\$205.14</b>	<b>\$750.00</b>

**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.	\$14.23	1	\$14.23	\$14.23
Subtotals:			<b>\$14.23</b>	<b>\$14.23</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: ALAMOSA  
 Total one-way travel distance: 15.00 miles  
 Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,222.60  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$8.54  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.30	0.30
Return Time (Hours):	0.30	0.30
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.10	0.60

**JOB TIME AND COST**

Total job time: 2.20 Hours

Total job cost: \$2,231