



STATE OF  
COLORADO

Girardi - DNR, Chris <chris.girardi@state.co.us>

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## Costilla Pit- Inspection Report and Cost Estimate

1 message

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**Girardi - DNR, Chris** <chris.girardi@state.co.us>

Thu, May 29, 2025 at 9:47 AM

To: Paul Bottini <paul@southwayco.com>

Cc: PFM Consulting <pfmconsultingcompany@gmail.com>, Jared Ebert - DNR <jared.ebert@state.co.us>

Hello Mr. Bottini,

Attached to this email is the Division's Inspection Report for the inspection conducted back in April for the Costilla Pit, permit number M-1987-040.

Also attached is the Division's Cost Estimate to complete reclamation, as a Surety Increase is warranted after evaluating the current reclamation liability.

A hard copy will not be sent unless requested. Please feel free to contact me if you have any questions.

Thanks,

Chris Girardi

Environmental Protection Specialist Intern



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

P: (720) 793-3041

Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216

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### 2 attachments



**CostillaPit\_M1987040\_InspectionReport\_April2025.pdf**  
1987K



**CostillaPit\_UpdatedCostEstimate\_April2025.pdf**  
235K



## COLORADO

Division of Reclamation,  
Mining and Safety


Department of Natural Resources

### MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> Costilla Pit	<b>MINE/PROSPECTING ID#:</b> M-1987-040	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Costilla
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> April 23, 2025	<b>INSP. TIME:</b> 11:00am
<b>OPERATOR:</b> Southway Construction Company, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Paul Bottini	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$59,992
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None
<b>INSPECTOR(S):</b> Chris Girardi	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> May 29, 2025

**The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.**

**INSPECTION TOPIC:** Gen. Compliance With Mine Plan

**PROBLEM:** The first period of Temporary Cessation (TC) has expired as of November 21, 2021.

**CORRECTIVE ACTIONS:** The Operator will need to apply for a second five (5) year period of Temporary Cessation in accordance with Rule 1.13.5(1)(b) and Rule 1.13.5(3) of the Construction Materials Rules and Regulations, initiate final reclamation, or begin mining again. Please either submit an application for a second period of Temporary Cessation, a notice of initiation of final reclamation, or a plan to begin mining operations by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 6/27/25

**INSPECTION TOPIC:** Signs & Markers

**PROBLEM:** The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Section 3.1.12(1) of the rule. The Operator shall, at the entrance of the mine site post a sign, which shall be clearly visible from the access road, with a minimum size equaling one hundred and eighty-seven (187) square inches, such as eleven (11) inches in height and seventeen (17) inches in width, with appropriate font size, with the following: the name of the Operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number.

**CORRECTIVE ACTIONS:** The operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 6/27/25

## **OBSERVATIONS**

The Costilla Pit was inspected on April 23, 2025, by Chris Girardi with the Division of Reclamation, Mining, and Safety ("DRMS" or "Division") as part of the DRMS routine monitoring inspection program. The site was last inspected on October 7, 2016, as part of a routine monitoring inspection. Paul Bottini represented Southway Construction Company, Inc. (Operator) during the inspection. Jodi Schreiber with PFM Consulting LLC was also present during the inspection. The weather was clear.

The Costilla Pit is a 110c sand and gravel operation that consists of 9.70 acres and is adjacent to the east of Garcia, CO. The approved post-mining land use is rangeland. The surrounding land is rural residential.

The site is accessed from the east of Highway 159 with a locked gate. A mine entrance sign was not present. This has been cited as a problem. In accordance with Rule 3.1.12, at the entrance of the mine site a clearly visible sign must be posted that displays the Operator and operation name, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board, and the permit number. The permit boundary is delineated with t-posts (see Photo 1).

### **General Compliance with Mining Plan:**

The site is flat area located within a valley adjacent to the west of the Sange de Cristo Mountain Range. Vegetation has established across the site consisting of Rubber rabbitbrush, Sagebrush, Blue grama (see Photo 2). A minor amount of Mullein was observed, but not to the extent where weed mitigation is necessary. Wild horses were observed within the permit area (see Photo 1), as wild horses are prevalent in the area. The site was inactive at the time of the inspection. No equipment was observed onsite as the permit has not been operational for several years.

A stockpile was observed along the eastern permit boundary and showed evidence of dirt-bike tire tracks (see Photo 2). Tracks were also observed throughout the haul roads. According to the Operator, the site is commonly used as a recreational area for dirt bike and ATV riding. The southern portion of the permit area contains a larger pit approximately 3-acres in size and a smaller approximately 1-acre pit. The smaller pit is approximately seventeen (17) feet deep with slopes steeper greater than 3H:1V configuration with well-established vegetation along the slope and floor (see Photo 4). Animal dwellings were also observed along the pit slope. The larger pit is approximately fifteen (15) feet deep with relaxed side slope configurations of 4H:1V. A topsoil berm is located along the southern perimeter of the pit and appeared to be in stable condition (see Photo 5). According to the Operator, there hasn't been any hauling of material for approximately six to seven years. According to Annual Reports submitted by the Operator, the last date of activity at the site occurred in 2015.

The Mined Land Reclamation Board ("MLRB" or "Board") approved an application for Temporary Cessation (TC-1) for the site on November 16, 2016, during a Board hearing. The first period of temporary cessation (TC-1) expired as of November 16, 2021. The Operator will need to apply for a second five (5) year period of Temporary Cessation in accordance with Rules 1.13.5(1)(b) and Rule 1.13.5(3) of the Construction Materials Rules and Regulations, initiate final reclamation, or begin mining again. This issue is cited as a problem at the beginning of this report. According to the Operator, they would like to begin final reclamation. In addition, there are prospective buyers for the parcel and would like to convert the property into a recreational dirt-bike and ATV area. The Division noted that the currently approved post-mine land use is rangeland, and that a

conversion of the post-mine land use would require an amendment application.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$40,354.07 for this operation. The Division has evaluated the reclamation liability for the site and determined that the reclamation liability is \$59,992. This is an increase of \$19,637.93 from the bond currently held. The Operator will have 14 days (June 11, 2025), from the issuance of this report to submit any questions regarding the updated cost estimate. If no questions are received, the Division will issue a Surety Increase notice. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

This concludes the DRMS' inspection report; a subset of photographs was taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 720-793-3041 or by email at [chris.girardi@state.co.us](mailto:chris.girardi@state.co.us).



**PHOTOGRAPHS**



Photo 1: T-post delineating eastern permit boundary, facing east.



Photo 2: View of stockpile along haul road, facing east.





Photo 3: View of stockpile material, facing southeast.



Photo 4: View of one acre pit with established vegetation, facing west.





Photo 5: View of topsoil berm along pit, facing east.



### GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PB</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>PB</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

#### Inspection Contact Address

Paul Bottini  
Southway Construction Company, Inc.  
117 White Pine Dr  
Alamosa, CO 81101

CC:  
Jared Ebert, DRMS  
Jodi Schreiber, PFM Consulting LLC

**COST SUMMARY WORK**

Task description: **Cost Estimate**

Site: **Costilla Pit** Permit Action: 2025 Update Permit/Job#: M1987040

**PROJECT IDENTIFICATION**

Task #: 000 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: M040-000  
User: CMG

Agency or organization name: DRMS

**TASK LIST (DIRECT COSTS)**

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Highwall reduction to 3H:1V	DOZER	1	0.57	\$296
002	General grade and rip, prepare for topsoil replacement	DOZER	1	20.48	\$10,729
003	Topsoil replacement for main pit area	DOZER	1	7.04	\$3,645
004	Load & carry topsoil replacement for 5.7 acres	LOADER	1	35.24	\$3,838
005	Revegetate 9.7 acres affected lands	REVEGE	1	10.00	\$20,114
006	Haul reclamation equipment to and from job site	MOBILIZE	1	5.40	\$5,457
<u><b>SUBTOTALS:</b></u>				<b>78.73</b>	<b>\$44,079</b>

**INDIRECT COSTS**

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	<u>\$890</u>
Performance bond:	1.05	Total =	<u>\$463</u>
Job superintendent:	42.95	Total =	<u>\$3,405</u>
Profit:	10.00	Total =	<u>\$4,408</u>
TOTAL O & P =			<u>\$9,166</u>
CONTRACT AMOUNT (direct + O & P) =			<u>\$53,245</u>

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$2,263</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$2,662</u>

CONTINGENCY: 3.00 Total = \$1,322

TOTAL INDIRECT COST = \$15,913

**TOTAL BOND AMOUNT (direct + indirect) = \$59,992**

## BULLDOZER WORK

Task description: Highwall reduction to 3H:1V

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

### PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: 001  
User: CMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU  
Horsepower: 574  
Blade Type: Semi-Universal  
Attachment: 3-shank ripper  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$1.17</u>	<u>10</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$519.10</u>	
Total Fleet Cost/Hour:	<u><b>\$519.10</b></u>	

### MATERIAL QUANTITIES

Initial Volume: 700  
Swell factor: 1.165  
Loose volume: **816** LCY

Source of estimated volume: DRMS Estimate by on Highwall dimensions  
Source of estimated swell factor: NA

### HOURLY PRODUCTION

Average push distance: 50 feet  
Unadjusted hourly production: 2,748.7 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -15 %  
Average site altitude: 7,720 feet



Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5196

Adjusted unit  
production: 1,428.22 LCY/hr  
Adjusted fleet  
production: **1428.22** LCY/hr

#### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.363/LCY

Total job time: **0.57** Hours  
Total job cost: **\$296**

## BULLDOZER WORK

Task description: General grade and rip, prepare for topsoil replacement

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

### PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: 000  
User: CMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU  
Horsepower: 574  
Blade Type: Semi-Universal  
Attachment: 3-shank ripper  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$5.87</u>	<u>50</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$523.79</u>	
Total Fleet Cost/Hour:	<u><b>\$523.79</b></u>	

### MATERIAL QUANTITIES

Initial Volume: 15,326  
Swell factor: 1.000  
Loose volume: **15,326** LCY

Source of estimated volume: (9.5ac)(43560sf/ac)(1'D) / 27 = 15,326 cy  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Average push distance: 75 feet  
Unadjusted hourly  
production: 2,105.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %  
Average site altitude: 7,720 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit  
production: 748.22 LCY/hr  
Adjusted fleet  
production: **748.22 LCY/hr**

#### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.700/LCY

Total job time: **20.48 Hours**  
Total job cost: **\$10,729**



## BULLDOZER WORK

Task description: Topsoil replacement for main pit area

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

### PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: 000  
User: CMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU  
Horsepower: 574  
Blade Type: Semi-Universal  
Attachment: 3-shank ripper  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$517.93</u>	
Total Fleet Cost/Hour:	<u><b>\$517.93</b></u>	

### MATERIAL QUANTITIES

Initial Volume: 4,840  
Swell factor: 1.330  
Loose volume: **6,437 LCY**

Source of estimated volume: (4ac)(43560sq/ac)(0.75'D) / 27 = 4840 cy  
Source of estimated swell  
factor: Cat Handbook

### HOURLY PRODUCTION

Average push distance: 100 feet  
Unadjusted hourly  
production: 1,718.9 LCY/hr

Materials consistency  
description: Consolidated stockpile 1.0

Average push  
gradient: -10 %  
Average site altitude: 7,720 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5321

Adjusted unit  
production: 914.63 LCY/hr  
Adjusted fleet  
production: **914.63 LCY/hr**

#### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.566/LCY

Total job time: **7.04 Hours**  
Total job cost: **\$3,645**

## WHEEL LOADER – LOAD AND CARRY WORK

Task description: Load & carry topsoil replacement for 5.7 acres

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

### PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: 000  
User: CMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 950H Horsepower: 197  
Attachment 1: ROPS Cab Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$36.61</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$35.43</u>	<u>100</u>
Operator Cost/Hour:	<u>\$36.85</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$108.89</u>	

Total Fleet Cost/Hour: \$108.89

### MATERIAL QUANTITIES

Initial volume: 6,897 CCY Swell factor: 1.000  
Loose volume: 6,897 LCY

Source of estimated volume: (5.7ac)(43560sf/ac)(0.75'D) / 27 = 6897 CY

Source of estimated swell factor: NA

### HOURLY PRODUCTION

<u>Loader Cycle Time:</u>	Unadjusted Basic Cycle Time (load, dump, maneuver):	0.500	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 or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.010	minutes
	Adjusted Basic Cycle Time:	0.490	minutes

#### Rolling Resistance – Road Conditions

Haul: Loose sand or gravel 10  
Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0



### Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	300	0.00	10.00	10.00	0.4049	(Cat HB)
Return Route:	300	0.00	5.00	5.00	0.2543	(Cat HB)

Total Travel Time: 0.6592 minutes  
Total Cycle Time: 1.1492 minutes

### Load Bucket Capacity

Rated Capacity: 4.30 LCY (heaped)  
Bucket Fill Factor: 1.050 Other - moist loam (100-110%) 1.050  
Adjusted Capacity: 4.52 LCY

### Job Condition Correction Factors

Site Altitude: 7720 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: 235.73 LCY/Hour  
Adjusted Hourly Unit Production: 195.66 LCY/Hour  
Adjusted Hourly Fleet Production: 195.66 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 35.25 Hours  
Unit cost: \$0.557 /LCY Total job cost: \$3,838

REVEGETATION WORK

Task description: Revegetate 9.7 acres affected lands

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

**PROJECT IDENTIFICATION**

Task #: 005 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: 000  
User: CMG

Agency 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	\$0.51	\$102.32
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$102.32</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$43.12
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$43.12</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$117.61</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.90	14.69	\$24.98
Indian Ricegrass - Paloma	1.25	4.05	\$25.67
Crested Wheatgrass - Nordan	1.00	4.59	\$5.31
Western Wheatgrass - Arriba	8.00	20.20	\$72.27
Winter Fat	0.50	1.27	\$23.36
<b>Totals Seed Mix</b>	<b>11.65</b>	<b>44.80</b>	<b>\$151.59</b>

**Application**

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64

<b>Total Seed Application Cost/Acre</b>	<b>\$236.64</b>
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### **MULCHING and MISCELLANEOUS**

#### **Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$985.56</b>

#### **Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
<b>Total Mulch Application Cost/Acre</b>	<b>\$242.63</b>

### **NURSERY STOCK PLANTING**

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

### **JOB TIME AND COST**

No. of Acres:	9.7	Cost /Acre:	\$1,879.47
Estimated Failure Rate:	50%	Cost /Acre*:	\$388.23
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$18,230.86</b>
Reseeding Job Cost:	<b>\$1,882.92</b>
Total Job Cost:	<b>\$20,114</b>
Job Hours:	<b>10.00</b>

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Haul reclamation equipment to and from job site

Site: Costilla Pit Permit Action: 2025 Update Permit/Job#: M1987040

### PROJECT IDENTIFICATION

Task #: 006 State: Colorado Abbreviation: None  
Date: 5/22/2025 County: Costilla Filename: M040-006  
User: CMG

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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

### 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 D10T - 10SU	93.31	\$282.41	\$125.64	1	\$408.05	\$125.64	\$250.00
CAT 950H	20.13	\$36.61	\$59.44	1	\$96.05	\$59.44	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$500.00

Subtotals: **\$705.02** **\$303.96** **\$1,000.00**

### ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Lube Truck, 4x2, 190 HP	\$41.41	1	\$41.41	\$41.41
Generic 5-6 cy, 4x2	\$67.88	1	\$67.88	\$67.88

Subtotals: **\$109.29** **\$109.29**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>ANTONITO</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph
 Total Non-Roadable Mob/Demob Cost *	 <u>\$5,325.84</u>	
* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$131.15</u>	
** one round trip, no haul rig:		

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	0.75	NA
Unloading Time (Hours):	0.75	NA
Subtotals:	2.70	1.20

**JOB TIME AND COST**

Total job time:	<u>5.40</u>	Hours
Total job cost:	<u>\$5,457</u>	