



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

March 6, 2025

Ward Priestley
Hank Williams, Inc. dba Williams Construction Contractors
P O Box 704
Norwood, CO 81423

Re: Allen Pit - File No. M-2002-094
Hank Williams, Inc. dba Williams Construction Contractors
Surety Increase (SI-2)
Increase FW to \$78,832

Dear Ward Priestley:

On March 6, 2025 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$78,832.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$6,432.00.**

The Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase is due within 60 days.

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, 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 if the amount of any increased Financial Warranty has not been provided by May 5, 2025.

If you have any questions, please contact me by telephone at (970) 433-8393, or by email at Dustin.czapla@state.co.us.

Sincerely,

Dustin M. Czapla
Environmental Protection Specialist



COST SUMMARY WORK

Task description: 2025-02-10 Update

Site: Allen Pit

Permit Action: 2025-02-10 Update

Permit/Job#: M2002094

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/10/2025

County: Montrose

Filename: M094-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce pit slopes to 2.5H:1V	DOZER	1	8.31	\$2,672
02a	Rip pit floor	RIPPER	1	14.02	\$4,826
03a	Replace topsoil	SCRAPER1	1	23.79	\$12,040
04a	Push topsoil over slopes	DOZER	1	1.67	\$536
05a	Revegetate disturbed area	REVEGE	1	24.00	\$38,146
06a	Mobilize reclamation crew/equipment	MOBILIZE	1	3.40	\$5,123
<u>SUBTOTALS:</u>				75.19	\$63,343

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,280

Performance bond: 1.05

Total = \$665

Job superintendent: 37.60

Total = \$2,980

Profit: 10.00

Total = \$6,334

TOTAL O & P = \$11,259

CONTRACT AMOUNT (direct + O & P) = \$74,602

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

\$3,730

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$15,489

TOTAL BOND AMOUNT (direct + indirect) = \$78,832

BULLDOZER WORKTask description: **Reduce pit slopes to 2.5H:1V**Site: Allen Pit Permit Action: 2025-02-10 Update Permit/Job#: M2002094**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None
 Date: 2/10/2025 County: Montrose Filename: 01a
 User: DMC

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>\$173.32</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$109.71</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>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$321.62
 Total Fleet Cost/Hour: **\$321.62**

MATERIAL QUANTITIES

Initial Volume: 6,250
 Swell factor: 1.000
 Loose volume: **6,250** LCY

Source of estimated volume: Current conditions
 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: -15 %
 Average site altitude: 6,600 feet

Material weight: 2,550 lbs/LCYWeight description: Earth - Dry packed

<u>Job Condition Correction Factor</u>	<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: <u>1.000</u>	<u>(AVG.)</u>

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

Net correction: 0.5373

Adjusted unit production: 752.22 LCY/hr

Adjusted fleet production: **752.22** LCY/hr

JOB TIME AND COST



Fleet size: 1 Dozer(s)

Unit cost: \$0.428/LCY

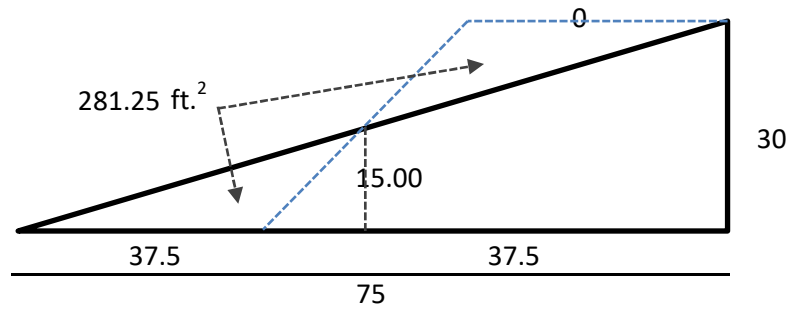
Total job time: **8.31** Hours

Total job cost: **\$2,672**

Highwall reduction - cut and fill

Highwall Height (ft.)	30.0	
Length of Highwall (lft.)	600	
 Initial Slope	0.0	H:1V
 Desired Slope	3	H:1V
Volume of material to be moved (ft. ³)	168,750	
Volume of material to be moved (yd. ³)	6,250	

All dimensions measured in feet
Drawing not to scale



BULLDOZER RIPPING WORK

Task description: Rip pit floor

Site: Allen Pit Permit Action: 2025-02-10 Update Permit/Job#: M2002094

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 2/10/2025 County: Montrose Filename: 02a
User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$173.32</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$109.71</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$14.53</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$7.95</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$344.10</u>	
Total Fleet Cost/Hour:	<u>\$344.10</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 9.00 acres Rip Depth (ft): 2.00 Volume: 29,040 BCY or CCY

Source of estimated quantity: Current disturbance

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.56</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.08</u>	<u>feet/pass</u>
Average Ripping Length:	<u>200.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.773</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.773</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,600</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.64</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.64</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 14.03 Hours

Unit cost: \$536.229 Per acre Total job cost: \$4,826

SCRAPER TEAM WORKTask description: **Replace topsoil**Site: Allen Pit Permit Action: 2025-02-10 Update Permit/Job#: M2002094**PROJECT IDENTIFICATION**

Task #: 03A State: Colorado Abbreviation: None
 Date: 2/10/2025 County: Montrose Filename: 03a
 User: DMC

Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 627G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

Scraper Work Team

Support Equipment

Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$217.39	NA	NA	NA	NA	NA
Operating cost/hour:	\$257.76	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$506.05	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work: \$506.05		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$506.05****MATERIAL QUANTITIES**

Initial volume: 10,486 CCY Swell factor: 1.000
 Loose volume: 10,486 LCY

Source of estimated volume: Current disturbance roughly 13 acres, 6" avg. depth
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY
 Material description: Top Soil Heaped Volume: 22.00 LCY
 Rated Payload: 52,800 pounds Average Volume: 18.85 LCY
 Payload Capacity: 33.00 LCY Adjusted Capacity: **18.85** LCY

Cycle Time:Scraper Loading Time: 0.70 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	0.00	5.00	5.00	2218	0.44

Haul Time: 0.44 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	0.00	5.00	5.00	2814	0.39

Return Time: 0.39 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 440.72 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 440.72 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 440.72 LCY/HourUnadjusted unit production/hour: 530.99 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 23.79 HoursUnit cost: \$1.148 /LCYTotal job cost: \$12,040

BULLDOZER WORKTask description: **Push topsoil over slopes**Site: Allen Pit Permit Action: 2025-02-10 Update Permit/Job#: M2002094**PROJECT IDENTIFICATION**

Task #: 04A State: Colorado Abbreviation: None
 Date: 2/10/2025 County: Montrose Filename: 04a
 User: DMC

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>\$173.32</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$109.71</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>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$321.62
 Total Fleet Cost/Hour: \$321.62

MATERIAL QUANTITIES

Initial Volume: 2,000
 Swell factor: 1.000
 Loose volume: 2,000 LCY

Source of estimated volume: Approx. 2 ac slopes
 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: -15 %
 Average site altitude: 6,600 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:	<u>1.000</u>	<u>(AVG.)</u>

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

Net correction: 0.8566

Adjusted unit production: 1,199.24 LCY/hr

Adjusted fleet production: **1199.24** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.268/LCY

Total job time: **1.67** Hours

Total job cost: **\$536**

REVEGETATION WORKTask description: Revegetate disturbed areaSite: Allen PitPermit Action: 2025-02-10 UpdatePermit/Job#: M2002094**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/10/2025County: MontroseFilename: 05aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	480.00	pound	\$0.64	\$308.16
Triple superphosphate, 0-46-0	87.00	pound	\$0.92	\$79.75
			Total Fertilizer Materials Cost/Acre	\$387.91

Application

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$17.86
Total Fertilizer Application Cost/Acre	\$17.86

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$220.02

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$14.32
Indian Ricegrass - Paloma	3.00	9.71	\$61.60
Intermediate Wheatgrass - Oahe	2.00	4.27	\$9.29
Galleta	0.50	1.83	\$27.72
Tall Fescue - Festorina	2.00	10.42	\$4.71
Needle and Thread	0.50	1.32	\$40.71
Totals Seed Mix	8.50	35.71	\$158.35

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Garlon @ 1.0 pt/ac	1.00	ACRE	\$15.19	\$15.19
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$1,000.75

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$325.89

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:	13	Cost /Acre:	\$2,347.42
Estimated Failure Rate:	25%	Cost /Acre*:	\$2,347.42
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	\$30,516.46		
Reseeding Job Cost:	\$7,629.12		
Total Job Cost:	\$38,146		
Job Hours:	24.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew/equipment**Site: Allen PitPermit Action: 2025-02-10 UpdatePermit/Job#: M2002094**PROJECT IDENTIFICATION**

Task #: 06A State: Colorado Abbreviation: None
 Date: 2/10/2025 County: Montrose Filename: 06a
 User: DMC

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 D8T - 8SU	53.08	\$187.85	\$125.64	1	\$313.49	\$125.64	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$0.00
CAT 972H	28.00	\$62.43	\$122.78	1	\$185.21	\$122.78	\$250.00
Cat 627G	41.80	\$217.39	\$122.78	1	\$340.17	\$122.78	\$250.00

Subtotals: **\$1,025.98** **\$490.08** **\$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.	\$13.77	1	\$13.77	\$13.77

Subtotals: **\$13.77** **\$13.77**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	14.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$5,113.20
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$9.64
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.35	0.35
Return Time (Hours):	0.35	0.35
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.70	0.70

JOB TIME AND COST

Total job time: 3.40 Hours

Total job cost: \$5,123