

STATE OF
COLORADO

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

Re: Mitchell Pits, Permit Nos. M-1987-023 and M-1990-131

1 message

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

Wed, Aug 6, 2025 at 4:51 PM

To: Claire Starling <cstarling@holsingerlaw.com>

Cc: Kent Holsinger <kholsinger@holsingerlaw.com>, Terry Jo Epstein <tepstein@holsingerlaw.com>, hywal94 <hywal94@gmail.com>

Hi Claire.

I apologize for the delay in responding to your request. Please see the attached approval letter granting an extension of time to address the compliance issues at the Mitchell Pits.

Please let me know if you have any questions regarding the permits or on the next steps for completing a transfer application.

Kind regards,

Nikie Gagnon

On Fri, Jul 11, 2025 at 4:18 PM Claire Starling <cstarling@holsingerlaw.com> wrote:

Hi Nikie,

Thank you. Sounds like a plan. We will be available if any additional information is needed.

Best,

Claire

Claire Starling

*Paralegal***Holsinger Law, LLC**

lands, wildlife and water law

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1800 Glenarm Place, Suite 500 | Denver, Colorado 80202

O: (303) 722-2828 | D: (720) 330-8246 | F: (303) 496-1025

E: cstarling@holsingerlaw.com

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From: Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>
Sent: Friday, July 11, 2025 3:56 PM
To: Claire Starling <cstarling@holsingerlaw.com>
Cc: Kent Holsinger <kholsinger@holsingerlaw.com>; Terry Jo Epstein <tepstein@holsingerlaw.com>; hywal94 <hywal94@gmail.com>
Subject: Re: Mitchell Pits, Permit Nos. M-1987-023 and M-1990-131

Hi Claire.

Thank you for sending the Division an update on the Mitchell Pit permit transfer negotiations. I'll add this letter to the permit file. Before I send out an approval letter for the extension of time, I'd like to discuss it with my supervisor next week. I'll let you know if we need any additional information before we can approve the extension.

Kind regards,

Nikie Gagnon

Environmental Protection Specialist



Cell: 720.527.1640

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

Address for FedEx, UPS, or hand delivery:

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

nikie.gagnon@state.co.us | <https://www.drms.colorado.gov>

On Fri, Jul 11, 2025 at 3:37 PM Claire Starling <cstarling@holsingerlaw.com> wrote:

Ms. Gagnon,

Please see the attached letter regarding the two 110c permits held by Rick Mitchell. If you have any questions, please feel free to contact Kent Holsinger at kholsinger@holsingerlaw.com.

Thank you,

Claire

Claire Starling

Paralegal

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3 attachments



Mitchell Pits Corrective Action Extension Approval_20250806.pdf
257K



M1987023 Mitchel Pit_Reclamation Cost Estimate 2025.pdf
705K



M1990131_Mitchell Pit 2_Reclamation Cost Esimate 2025.pdf
648K



August 6, 2025

Rick Mitchell
P.O. Box 10
345 W. 62nd Ave.
Bennett, CO 80102

RE: Mitchell Pits, Permit No. M-1987-023 and M-1990-131, Approval of Extension to Address Compliance Issues

Dear Mr. Mitchell:

On July 11, 2025, the Division of Reclamation, Mining and Safety (Division) received a request from Kent Holsinger of Holsinger Law, LLC, to extend the deadline to address compliance issues cited at the Mitchell Pits, Permit Nos. M-1987-023 and M-1990-131. The Division acknowledges that Mr. Mitchell is in active discussions with the Town of Bennett to transfer both permits to the Town. Therefore, the Division will allow additional time for either the submittal of a transfer application or for the site to be brought into compliance with the permit conditions. Holsinger Law will provide an update to the Division by **October 1, 2025**.

The Division currently holds financial warranties for the Mitchell Pits totaling \$13,344.00 (M-1987-023) and \$6,164.00 (M-1990-131). The Division's reclamation cost estimate for each site is enclosed for the Operator's review. The Division may issue a surety increase revision after October 1, 2025.

If you have any questions, you may contact me by telephone at 720-527-1640 or by email at nikie.gagnon@state.co.us.

Sincerely,

Nikie Gagnon
Environmental Protection Specialist

Enclosure: 2025 Reclamation Cost Estimates

Cc: Jared Ebert, Senior EPS, DRMS
Kent Holsinger, Holsinger Law
Claire Starling, Holsinger Law
Tony Waldron



COST SUMMARY WORK

Task description: Reclamation Cost Estimate

Site: Mitchell Pit

Permit Action: 2025 Update

Permit/Job#: M1987023

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/14/2025

County: Adams

Filename: M023-000

User: NCG

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill and grade highwall	DOZER	1	8.47	\$2,792
002	Grade Pit Floor Backfill Pits	DOZER	2	16.35	\$11,427
003	Replace Topsoil on 9.5 acres	DOZER	1	16.48	\$5,720
004	Revegetate 9.5 acres	REVEGE	1	9.50	\$22,787
005	Mobilization/Demobilization	MOBILIZE	1	5.95	\$3,955
<u>SUBTOTALS:</u>				56.75	\$46,681

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$943

Performance bond: 1.05

Total = \$490

Job superintendent: 28.37

Total = \$2,131

Profit: 10.00

Total = \$4,668

TOTAL O & P = \$8,233

CONTRACT AMOUNT (direct + O & P) = \$54,914

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,334

Reclamation management and/or administration: 5.00

\$2,746

CONTINGENCY: 3.00

Total = \$1,400

TOTAL INDIRECT COST = \$14,713

TOTAL BOND AMOUNT (direct + indirect) = \$61,394

BULLDOZER WORKTask description: **Backfill and grade highwall**Site: Mitchell Pit Permit Action: 2025 Update Permit/Job#: M1987023**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None
 Date: 7/14/2025 County: Adams Filename: M023-001
 User: NCG

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>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>15</u>
Operator Cost/Hour:	<u>\$39.46</u>	<u>NA</u>

Total unit Cost/Hour: \$329.51
 Total Fleet Cost/Hour: **\$329.51**

MATERIAL QUANTITIES

Initial Volume: 3,750
 Swell factor: 1.230
 Loose volume: **4,613** LCY

Source of estimated volume: 900 ft L x 15 ft H, BF 2H:1V to 3H:1V
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet
 Unadjusted hourly production: 852.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -5 %
 Average site altitude: 5,500 feet

Material weight: 2,100 lbs/LCYWeight description: Earth - Loam**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>1.000</u>	<u>(EXCL.)</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:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6384

Adjusted unit production: 544.30 LCY/hr

Adjusted fleet production: **544.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.605/LCY

Total job time: **8.47** Hours

Total job cost: **\$2,792**

BULLDOZER WORKTask description: **Grade Pit Floor Backfill Pits**Site: Mitchell Pit Permit Action: 2025 Update Permit/Job#: M1987023**PROJECT IDENTIFICATION**

Task #: 002 State: Colorado Abbreviation: None
 Date: 7/14/2025 County: Adams Filename: M023-002
 User: NCG

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

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 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>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$4.57</u>	<u>50</u>
Operator Cost/Hour:	<u>\$39.46</u>	<u>NA</u>

Total unit Cost/Hour: \$349.36
 Total Fleet Cost/Hour: \$698.72

MATERIAL QUANTITIES

Initial Volume: 16,133
 Swell factor: 1.125
 Loose volume: **18,150** LCY

Source of estimated volume: 5 ac. avg 2 ft depth (push stockpiles, fill in holes)
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 634.3 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: -5 %
 Average site altitude: 5,500 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>1.000</u>	<u>(EXCL.)</u>
Material consistency:	<u>1.100</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.100</u>	<u>(50% SL)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8748

Adjusted unit production: 554.89 LCY/hr

Adjusted fleet production: **1109.78** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.630/LCY

Total job time: **16.35** Hours

Total job cost: **\$11,427**

BULLDOZER WORKTask description: Replace Topsoil on 9.5 acresSite: Mitchell PitPermit Action: 2025 UpdatePermit/Job#: M1987023**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 8/6/2025County: AdamsFilename: M023-003User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$15.28	NA
Ripper op. Cost/Hour:	\$2.29	25
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: \$347.07Total Fleet Cost/Hour: \$347.07**MATERIAL QUANTITIES**Initial Volume: 7,663Swell factor: 1.000Loose volume: 7,663 LCYSource of estimated volume: 9.5 Acres of Affected Land at 6"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 5,500 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9453

Adjusted unit production: 464.99 LCY/hr

Adjusted fleet production: **464.99** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.746/LCY

Total job time: **16.48** Hours

Total job cost: **\$5,720**

REVEGETATION WORKTask description: Revegetate 9.5 acresSite: Mitchell PitPermit Action: 2025 UpdatePermit/Job#: M1987023**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 7/14/2025County: AdamsFilename: M023-004User: NCGAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	13.20	pound	\$0.66	\$8.68
Triple superphosphate, 0-46-0	18.40	pound	\$0.94	\$17.27
			Total Fertilizer Materials Cost/Acre	\$25.95

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$46.17
Total Fertilizer Application Cost/Acre	\$46.17

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$452.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.75	12.24	\$21.31
Sideoats Grama - Vaughn	2.25	7.39	\$56.65
Western Wheatgrass - Arriba	6.40	16.16	\$59.20
Needlegrass, Green - Lodorm	1.00	4.16	\$8.85
Totals Seed Mix	10.40	39.94	\$146.01

Application

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Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,009.12

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Weed spray, hand, non-aquatic areas, ann. [DMG]	\$139.74
Total Mulch Application Cost/Acre	\$379.09

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:	9.5	Cost /Acre:	\$2,301.57
Estimated Failure Rate:	25%	Cost /Acre*:	\$388.31
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	\$21,864.92		
Reseeding Job Cost:	\$922.24		
Total Job Cost:	\$22,787		
Job Hours:	9.50		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization/Demobilization**Site: **Mitchell Pit**Permit Action: **2025 Update**Permit/Job#: **M1987023****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **7/14/2025**County: **Adams**Filename: **M023-005**User: **NCG**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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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	\$194.88	\$159.59	1	\$354.47	\$159.59	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Subtotals:					\$435.92	\$235.05	\$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$33.68	1	\$33.68	\$33.68
Light Duty Pickup, 4x4, 3/4 T.	\$22.72	1	\$22.72	\$22.72
Subtotals:			\$56.40	\$56.40

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>AURORA</u>	
Total one-way travel distance:	<u>22.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,899.74</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$55.15</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.49</u>	<u>0.49</u>
Return Time (Hours):	<u>0.49</u>	<u>0.49</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>2.98</u>	<u>0.98</u>

JOB TIME AND COST

Total job time:	<u>5.96</u>	Hours
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Total job cost:	<u>\$3,955</u>
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COST SUMMARY WORK

Task description: Reclamation Cost Estimate

Site: Mitchell Pit #2

Permit Action: 2025 Update

Permit/Job#: M1990131

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/14/2025

County: Adams

Filename: M131-000

User: NCG

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill and grade highwall	DOZER	1	1.31	\$431
002	Grade 4.15 acre pit floor	DOZER	1	13.03	\$4,552
003	Replace Topsoil 5.7 acres	DOZER	1	7.50	\$2,587
004	Revegetate 5.7 acres	REVEGE	1	5.00	\$13,562
005	Mobilization/demobilization	MOBILIZE	1	5.95	\$3,455
<u>SUBTOTALS:</u>				32.79	\$24,587

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$497

Performance bond: 1.05

Total = \$258

Job superintendent: 17.05

Total = \$1,281

Profit: 10.00

Total = \$2,459

TOTAL O & P = \$4,494

CONTRACT AMOUNT (direct + O & P) = \$29,081

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,236

Reclamation management and/or administration: 5.00

\$1,454

CONTINGENCY: 3.00

Total = \$738

TOTAL INDIRECT COST = \$7,922

TOTAL BOND AMOUNT (direct + indirect) = \$32,509

BULLDOZER WORKTask description: **Backfill and grade highwall**Site: **Mitchell Pit #2** Permit Action: **2025 Update** Permit/Job#: **M1990131****PROJECT IDENTIFICATION**

Task #: **001** State: **Colorado** Abbreviation: **None**
 Date: **7/14/2025** County: **Adams** Filename: **M131-001**
 User: **NCG**

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:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	15
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: **\$329.51**
 Total Fleet Cost/Hour: **\$329.51**

MATERIAL QUANTITIES

Initial Volume: **1,222**
 Swell factor: **1.230**
 Loose volume: **1,503 LCY**

Source of estimated volume: **Highwall is 660 ft L x 10 ft H, 2H:1V to 3H:1V**
 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: **-5 %**
 Average site altitude: **5,500 feet**

Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	1.000	(EXCL.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8208

Adjusted unit production: 1,149.12 LCY/hr

Adjusted fleet production: **1149.12** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.287/LCY

Total job time: **1.31** Hours

Total job cost: **\$431**

BULLDOZER WORKTask description: **Grade 4.15 acre pit floor**Site: **Mitchell Pit #2**Permit Action: **2025 Update**Permit/Job#: **M1990131****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **7/14/2025**County: **Adams**Filename: **M131-002**User: **NCG**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$15.28	NA
Ripper op. Cost/Hour:	\$4.57	50
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: **\$349.36**Total Fleet Cost/Hour: **\$349.36****MATERIAL QUANTITIES**Initial Volume: **13,390**Swell factor: **1.230**Loose volume: **16,470 LCY**Source of estimated volume: **4.15 acres x 2 ft deep (push stockpiles, fill in holes)**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: **-5 %**Average site altitude: **5,500 feet**Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	1.000	(EXCL.)
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:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9029

Adjusted unit production: 1,264.06 LCY/hr

Adjusted fleet production: **1264.06** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.276/LCY

Total job time: **13.03** Hours

Total job cost: **\$4,552**

BULLDOZER WORKTask description: Replace Topsoil 5.7 acresSite: Mitchell Pit #2Permit Action: 2025 UpdatePermit/Job#: M1990131**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 8/6/2025County: AdamsFilename: M131-003User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$15.28	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: \$344.79Total Fleet Cost/Hour: \$344.79**MATERIAL QUANTITIES**Initial Volume: 4,602Swell factor: 1.000Loose volume: 4,602 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 634.3 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 5,500 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
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:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9668

Adjusted unit production: 613.24 LCY/hr

Adjusted fleet production: **613.24** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.562/LCY

Total job time: **7.50** Hours

Total job cost: **\$2,587**

REVEGETATION WORKTask description: Revegetate 5.7 acresSite: Mitchell Pit #2Permit Action: 2025 UpdatePermit/Job#: M1990131**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 7/14/2025County: AdamsFilename: M131-004User: NCGAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	13.20	pound	\$0.66	\$8.68
Triple superphosphate, 0-46-0	18.40	pound	\$0.94	\$17.27
			Total Fertilizer Materials Cost/Acre	\$25.95

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$46.17
Total Fertilizer Application Cost/Acre	\$46.17

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$452.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.75	12.24	\$21.31
Sideoats Grama - Vaughn	2.25	7.39	\$56.65
Western Wheatgrass - Arriba	6.40	16.16	\$59.20
Needlegrass, Green - Lodorm	1.00	4.16	\$8.85
Totals Seed Mix	10.40	39.94	\$146.01

Application

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Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,009.12

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Weed spray, hand, non-aquatic areas, ann. [DMG]	\$139.74
Total Mulch Application Cost/Acre	\$379.09

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: 5.7 Cost /Acre: \$2,301.57
 Estimated Failure Rate: 20% Cost /Acre*: \$388.31
 *Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$13,118.95**
 Reseeding Job Cost: **\$442.67**
 Total Job Cost: **\$13,562**
 Job Hours: **5.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization/demobilization**Site: **Mitchell Pit #2**Permit Action: **2025 Update**Permit/Job#: **M1990131****PROJECT IDENTIFICATION**

Task #: **005** State: **Colorado** Abbreviation: **None**
 Date: **7/14/2025** County: **Adams** Filename: **M131-005**
 User: **NCG**

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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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	\$194.88	\$159.59	1	\$354.47	\$159.59	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Subtotals:					\$435.92	\$235.05	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$33.68	1	\$33.68	\$33.68
Light Duty Pickup, 4x4, 3/4 T.	\$22.72	1	\$22.72	\$22.72
Subtotals:			\$56.40	\$56.40

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: AURORA
 Total one-way travel distance: 22.00 miles
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost * \$3,399.74
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$55.15
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.49</u>	<u>0.49</u>
Return Time (Hours):	<u>0.49</u>	<u>0.49</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>2.98</u>	<u>0.98</u>

JOB TIME AND COST

Total job time: 5.96 Hours

Total job cost: \$3,455