



March 25, 2025

Peter Freedman
AuPt Industries LLC
PO Box 1424
Edwards, CO 81632

RE: West Side Placer, File No. M-2016-081, Application for 110 Conversion to a 112c Operation (CN-2), Adequacy Review #3

Peter Freedman,

On March 20, 2025, the Division of Reclamation, Mining and Safety (Division) received your adequacy response letter for CN-2 at the West Side Placer site, M-2016-081. The Division has reviewed the above referenced adequacy review response letter and material submitted. The following is a list of the adequacy review items from the Division's March 7, 2025 Adequacy Review Letter #2. If additional information or revision is required, it will be noted. If an item is resolved, that will be indicated.

1. The Division found the application for CN-2 complete on December 17, 2024. Pursuant to Rule 1.6.2(1)(e), upon completeness AuPt Industries LLC is required to mail or personally serve a copy of the notice provided for in Rule 1.6.2(1)(e) immediately after the first publication to: (i) all Owners of Record of the surface and mineral rights of the affected land; (ii) the Owners of Record of all land surface within 200 feet of the boundary of the affected lands. As of the date of this letter, the Division has yet to receive a proof of notice to the required entities (in this case, the BLM to the south) for CN-2. Please provide the Division with a copy of these notices. *Response: Proof of publication was not provided in the applicant's adequacy review response package. Please submit this proof of notice to the Division.* **Resolved.**

EXHIBIT D –Mining Plan

2. The Division delineates between 'disturbed' and 'affected' acreage. Affected land being the surface of an area within the state where a mining operation is being or will be conducted, which surface is disturbed as a result of such operation. For this operation, the affected acreage would be 79.9 acres. Disturbed land means land that has been altered in some way by mining or mining related activities. As per these definitions, for this operation, any equipment storage or processing areas are also considered disturbed land, e.g. the two-acres of area prepped and cleared for equipment storage and the 9.9 acres already disturbed as part of the currently existing 110(2) permit. As a result, the statement made on Page 13, Exhibit D, Section A that "no more than 15 acres will be disturbed at



one time” is inaccurate. Please revise this section of the narrative to reflect an accurate count of all acreage to be disturbed at once- which will include any processing or equipment storage areas and active mining areas. This can be written as such to also convey that no more than three mining blocks, of 5 acres each, will be in some state of stripping, mining, and reclamation at once. *Response: The narrative section of the Mining Plan has been updated to include in the disturbed acres amount the additional acreage already disturbed by the 110 permit. However, the given number of 21 acres is still not accurate. There are currently ~9.9 acres disturbed by the original 110 permit. If an additional 15 acres is planned to be open and disturbed under the new 112 permit, then the disturbed acreage would be 24.9 acres at minimum. Additionally, the Division suggests that the maximum disturbed acreage amount be increased to include more than one ‘set’ of 5-acre open mining, topsoil stripping and revegetation areas. Especially if the Operator anticipates mining phases to move relatively quickly. If max disturbed acreage is limited to 24.9 acres, the Operator will need to work with the Division to update the bond amount for a new mining phase BEFORE it is opened so as to not disturb more than 24.9 acres at any one time. Should the Operator wish to have a less stringent timeline for mining phases, it is recommended that the maximum disturbed acreage be increased.* **Resolved.**

3. The Division has calculated an updated reclamation cost estimate for the West Side Placer operation with regard to the proposed operation under CN2. The estimate has been provided to AuPt Industries LLC with this letter. The Division respectfully requests a response from AuPt with any questions regarding the cost estimate or an acceptance of the Division’s estimate.

This concludes the Division’s adequacy review of this application. This letter shall not be interpreted to mean that there are no other technical deficiencies in your application; other issues may arise as additional information is supplied. Please be advised the permit application may be deemed inadequate, and the application may be denied on **April 16, 2025**, unless the above mentioned adequacy review items are addressed to the satisfaction of the Division. If more time is needed to complete the reply, the Division can grant an extension to the decision date. This will be done upon receipt of a written waiver of the Applicant’s right to a decision by **April 16, 2025**, and the request for additional time. This must be received no later than the deadline date.

If you have any questions, please contact me by email at hunter.ridley@state.co.us or by phone at (720)868-7757.

Sincerely,
Hunter C. Ridley

A handwritten signature in blue ink that reads "Hunter Ridley". The signature is written in a cursive, flowing style.

Environmental Protection Specialist

CC: Zach Trujillo, DRMS

COST SUMMARY WORK

Task description: _____

Site: West Side Placer

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: HCR

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: M081-HCR

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Plug 4 water wells @ 300 ft depth	BOREHOLE	1	64.00	\$16,110
02a	Demo Rapid Thickener Pillars	DEMOLISH	1	4.00	\$63
02b	Demo Processing Plant foundations	DEMOLISH	1	159.00	\$10,486
03a	Backfill and OB replacement of 110(2) mining area	SCRAPER1	1	21.17	\$28,601
03b	Ore replacement for active mining phase backfill (2 Phases)	DOZER	1	149.40	\$48,048
04a	Rip compacted processing area and haul roads	RIPPER	1	13.09	\$4,513
05a	Regrade 110(2) permit area	GRADER	1	7.20	\$1,092
05b	Grade active mining phases and topsoil stripping phase (3 Ph	GRADER	1	10.91	\$1,655
06a	Topsoil replacement on 110(2) mining areas	DOZER	1	52.44	\$16,865
06b	Replace topsoil on stripped and active mining Phases (3)	DOZER	1	79.45	\$25,554
07a	Seed 110(2) area	REVEGE	1	9.00	\$9,093
07b	Seed mining phases (2 Phases) and stripped Phase (1 Phase)	REVEGE	1	15.00	\$13,777
07c	Maintenance seeding of reclamation acres 25% (CN2)	REVEGE	1	2.00	\$1,148
08a	Initial Mobilization	MOBILIZE	1	5.78	\$6,650
<u>SUBTOTALS:</u>				592.44	\$183,655

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 296.72
Profit: 10.00

Total = \$3,710

Total = \$1,928

Total = \$23,521

Total = \$18,366

TOTAL O & P = \$47,525

CONTRACT AMOUNT (direct + O & P) = \$231,180

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500
Engineering work and/or contract/bid preparation: 4.25
Reclamation management and/or administration: 5.00

Total = \$500

Total = \$9,825

\$11,559

CONTINGENCY:	0.00	Total =	<u>\$0</u>
		TOTAL INDIRECT COST =	<u>\$69,409</u>
TOTAL BOND AMOUNT (direct + indirect) =			<u>\$253,064</u>

BOREHOLE SEALING WORK

Task description: Plug 4 water wells @ 300 ft depth

Site: West Side Placer

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: 01a

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug lower portion of well	Bentonite seal - 8 in. (labor, equip, materials)	7.875	1180	1,180.00	LF	\$13.29	\$15,685.39
Plug upper portion of well	Portland cement grout - 10 in. (labor, equip, materials)	8.625	20	20.00	LF	\$12.05	\$241.01
Marker	Borehole location/identification marker (EA, material cost only)	8.625	4	4.00	EA	\$46.00	\$184.00

Job Hours: 64.00

Total Cost: \$16,110.00

DEMOLITION WORK

Task description: **Demo Rapid Thickener Pillars**

Site: **West Side Placer**

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: M081-02a

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
6 Pillars	12"D x 6'L	Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing	18.00	LF	\$3.66	\$65.88

Job Hours: **4.00**

Subtotal
(unadjusted): **\$65.88**

Total Cost
(adjusted for location): **\$62.92**

DEMOLITION WORK

Task description: **Demo Processing Plant foundations**

Site: **West Side Placer**

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02B

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: 02b

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete Foundations	100'D x 30'L	Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing	3,000.00	LF	\$3.66	\$10,980.00

Job Hours: **159.00**

Subtotal
(unadjusted): **\$10,980.00**

Total Cost
(adjusted for
location): **\$10,485.90**

SCRAPER TEAM WORKTask description: **Backfill and OB replacement of 110(2) mining area**Site: **West Side Placer**Permit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: M081-03aUser: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
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	100	100	NA	NA
Ownership cost/hour:	\$329.66	NA	\$173.32	\$173.32	NA	NA
Operating cost/hour:	\$347.48	NA	\$109.71	\$109.71	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$30.90	NA	\$38.59	\$38.59	NA	NA
Unit Subtotals:	\$708.04	NA	\$321.62	\$321.62	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work: \$708.04		Support: \$643.24		Maint:	\$0.00

Total work team cost/hour: **\$1,351.28****MATERIAL QUANTITIES**Initial volume: 9,999

CCY

Swell factor: 1.000Loose volume: **9,999**

LCY

Source of estimated volume: 72" x 75' x 600' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 3,400 lbs/LCY
 Material description: Sand and gravel - Wet
 Rated Payload: 81,600 pounds
 Payload Capacity: 24.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: **24.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6225 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: Loose sand or gravel 10Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: 0.68 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: 0.45 minutesTotal Scraper team cycle time: 2.53 minutesAdjusted for job conditions: 472.41 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 472.41 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 472.41 LCY/HourUnadjusted unit production/hour: 569.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 21.17 HoursUnit cost: \$2.860 /LCYTotal job cost: \$28,601

BULLDOZER WORKTask description: Ore replacement for active mining phase backfill (2 Phases)Site: West Side PlacerPermit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: M081-03bUser: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$321.62Total Fleet Cost/Hour: \$321.62**MATERIAL QUANTITIES**Initial Volume: 75,000Swell factor: 1.060Loose volume: 79,500 LCYSource of estimated volume: 0.5:1 to 5:1 slopes, 30 ft depth, 500 ft highwall lengthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,225 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3801

Adjusted unit production: 532.14 LCY/hr

Adjusted fleet production: **532.14** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.604/LCY

Total job time: **149.40** Hours

Total job cost: **\$48,048**

BULLDOZER RIPPING WORK

Task description: Rip compacted processing area and haul roads

Site: West Side Placer

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 04A

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: M081-04a

User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Ripper Attachment: 1-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper Ownership Cost/Hour:	\$13.69	NA
Ripper Operating Cost/Hour:	\$9.24	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$344.55	
Total Fleet Cost/Hour:	\$344.55	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 6.60 acres Rip Depth (ft): 2.00 Volume: 21,296 BCY or CCY

Source of estimated quantity: CN2 Exhibit D

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 3.71 feet/pass
Average Ripping Width: 5.56 feet/pass
Average Ripping Length: 200.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.607 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.607 Acres/hr
Site Altitude: 6,225 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.50 Acres/hr
Adjusted Hourly Fleet Production: **0.50** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **13.10** Hours

Unit cost: \$683.717 Per acre Total job cost: **\$4,513**

MOTOR GRADER WORK

Task description: Regrade 110(2) permit area

Site: West Side Placer

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 05A

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: 05a

User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 12M

Horsepower: 158

Ripper Attachment: _____

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$69.16	NA
Operating Cost/Hour:	\$54.74	100
Ripper Ownership Cost/Hour:	\$0.00	NA
Ripper Operating Cost/Hour:	\$0.00	
Operator Cost/Hour:	\$27.76	NA
Total Unit Cost/Hour:	\$151.66	
Total Fleet Cost/Hour:	\$151.66	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 9.90 acres

Source of estimated acreage: 110(2) Permit Application

HOURLY PRODUCTION

Average Grader Speed:	<u>1.50</u>	mph
Selected Application:	<u>Finish grading (0-2.5 mph) - 1.5</u>	
Selected Blade Angle:	<u>30</u>	degrees
Effective Blade Length:	<u>10.40</u>	feet
Width of blade overlap per pass:	<u>2.00</u>	feet
Net grading or ripping width per pass:	<u>8.40</u>	feet
Unadjusted Hourly Unit Production:	<u>1.5273</u>	acres/hour

Job Condition Correction Factors

Site Altitude: 6225 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.90</u>	(1sh/d, fav.)
Net Correction:	<u>0.9000</u>	multiplier

Adjusted Hourly Unit Production: 1.3745 acres/Hour

Adjusted Hourly Fleet Production: **1.3745** acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **7.20** Hours

Unit cost: \$110.33 per acre Total job cost: **\$1,092**

MOTOR GRADER WORK

Task description: Grade active mining phases and topsoil stripping phase (3 Ph

Site: West Side Placer

Permit Action: CN-2

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 05B

State: Colorado

Abbreviation: None

Date: 3/25/2025

County: Moffat

Filename: 05b

User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 12M

Horsepower: 158

Ripper Attachment: _____

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$69.16	NA
Operating Cost/Hour:	\$54.74	100
Ripper Ownership Cost/Hour:	\$0.00	NA
Ripper Operating Cost/Hour:	\$0.00	
Operator Cost/Hour:	\$27.76	NA
Total Unit Cost/Hour:	\$151.66	
Total Fleet Cost/Hour:	\$151.66	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 15.00 acres

Source of estimated acreage: CN2 Exhibit D

HOURLY PRODUCTION

Average Grader Speed:	<u>1.50</u>	mph
Selected Application:	<u>Finish grading (0-2.5 mph) - 1.5</u>	
Selected Blade Angle:	<u>30</u>	degrees
Effective Blade Length:	<u>10.40</u>	feet
Width of blade overlap per pass:	<u>2.00</u>	feet
Net grading or ripping width per pass:	<u>8.40</u>	feet
Unadjusted Hourly Unit Production:	<u>1.5273</u>	acres/hour

Job Condition Correction Factors

Site Altitude: 6225 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.90</u>	(1sh/d, fav.)
Net Correction:	<u>0.9000</u>	multiplier

Adjusted Hourly Unit Production: 1.3745 acres/Hour

Adjusted Hourly Fleet Production: **1.3745** acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **10.91** Hours

Unit cost: \$110.33 per acre Total job cost: **\$1,655**

BULLDOZER WORKTask description: Topsoil replacement on 110(2) mining areasSite: West Side PlacerPermit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: 06aUser: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$321.62Total Fleet Cost/Hour: \$321.62**MATERIAL QUANTITIES**Initial Volume: 15,972Swell factor: 1.000Loose volume: 15,972 LCYSource of estimated volume: Avg 12 in over 9.9 acresSource 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: 10 %Average site altitude: 6,225 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:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6192

Adjusted unit production: 304.58 LCY/hr

Adjusted fleet production: **304.58** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.056/LCY

Total job time: **52.44** Hours

Total job cost: **\$16,865**

BULLDOZER WORKTask description: **Replace topsoil on stripped and active mining Phases (3)**Site: **West Side Placer**Permit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: 06bUser: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$321.62Total Fleet Cost/Hour: **\$321.62****MATERIAL QUANTITIES**Initial Volume: 24,200Swell factor: 1.000Loose volume: **24,200 LCY**Source of estimated volume: Avg 12 in over 15 acresSource 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: 10 %Average site altitude: 6,225 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:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6192

Adjusted unit production: 304.58 LCY/hr

Adjusted fleet production: **304.58** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.056/LCY

Total job time: **79.45** Hours

Total job cost: **\$25,554**

REVEGETATION WORKTask description: Seed 110(2) areaSite: West Side PlacerPermit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: M081-07aUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.00	6.47	\$34.58
Slender Wheatgrass - Pryor	2.00	7.30	\$12.36
Thickspike Wheatgrass - Critana	2.00	7.07	\$16.30
Needle and Thread	2.00	5.28	\$162.86
Basin Wildrye - Trailhead	2.00	8.13	\$26.03
Bluebunch Wheatgrass - Goldar	2.00	6.43	\$22.92
Rabbitbrush, Douglas	2.00	29.84	\$81.96
Totals Seed Mix	14.00	70.52	\$357.00

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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Total Mulch Materials Cost/Acre				\$4.13

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$83.26

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:	9.9	Cost /Acre:	\$681.03
Estimated Failure Rate:	40%	Cost /Acre*:	\$593.64
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$6,742.20
Reseeding Job Cost:	\$2,350.81
Total Job Cost:	\$9,093
Job Hours:	9.00

REVEGETATION WORKTask description: Seed mining phases (2 Phases) and stripped Phase (1 Phase)Site: West Side PlacerPermit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 07BState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: 07bUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.00	6.47	\$34.58
Slender Wheatgrass - Pryor	2.00	7.30	\$12.36
Thickspike Wheatgrass - Critana	2.00	7.07	\$16.30
Needle and Thread	2.00	5.28	\$162.86
Basin Wildrye - Trailhead	2.00	8.13	\$26.03
Bluebunch Wheatgrass - Goldar	2.00	6.43	\$22.92
Rabbitbrush, Douglas	2.00	29.84	\$81.96
Totals Seed Mix	14.00	70.52	\$357.00

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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Total Mulch Materials Cost/Acre				\$4.13

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$83.26

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: 15
 Estimated Failure Rate: 40%
 *Selected Replanting Work Items: SEEDING

Cost /Acre: \$681.03
 Cost /Acre*: \$593.64

Initial Job Cost: **\$10,215.45**
 Reseeding Job Cost: **\$3,561.84**
 Total Job Cost: **\$13,777**
 Job Hours: **15.00**

REVEGETATION WORKTask description: Maintenance seeding of reclamation acres 25% (CN2)Site: West Side PlacerPermit Action: CN-2Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 07CState: ColoradoAbbreviation: NoneDate: 3/25/2025County: MoffatFilename: 07cUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.00	6.47	\$34.58
Slender Wheatgrass - Pryor	2.00	7.30	\$12.36
Thickspike Wheatgrass - Critana	2.00	7.07	\$16.30
Needle and Thread	2.00	5.28	\$162.86
Basin Wildrye - Trailhead	2.00	8.13	\$26.03
Bluebunch Wheatgrass - Goldar	2.00	6.43	\$22.92
Rabbitbrush, Douglas	2.00	29.84	\$81.96
Totals Seed Mix	14.00	70.52	\$357.00

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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Total Mulch Materials Cost/Acre				\$4.13

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$83.26

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: 1.25 Cost /Acre: \$681.03
 Estimated Failure Rate: 40% Cost /Acre*: \$593.64
 *Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$851.29**
 Reseeding Job Cost: **\$296.82**
 Total Job Cost: **\$1,148**
 Job Hours: **2.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **West Side Placer**Permit Action: **CN-2**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **08A**State: **Colorado**Abbreviation: **None**Date: **3/25/2025**County: **Moffat**Filename: **M081-08a**User: **HR1**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 637G	57.28	\$329.66	\$125.64	1	\$455.30	\$125.64	\$250.00
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
CAT 12M	16.01	\$69.16	\$59.44	1	\$128.60	\$59.44	\$250.00

Subtotals: **\$997.85** **\$370.16** **\$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.	\$35.84	1	\$35.84	\$35.84

Subtotals: **\$35.84** **\$35.84**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CRAIG
 Total one-way travel distance: 52.00 miles
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost * \$6,582.48
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$67.77
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

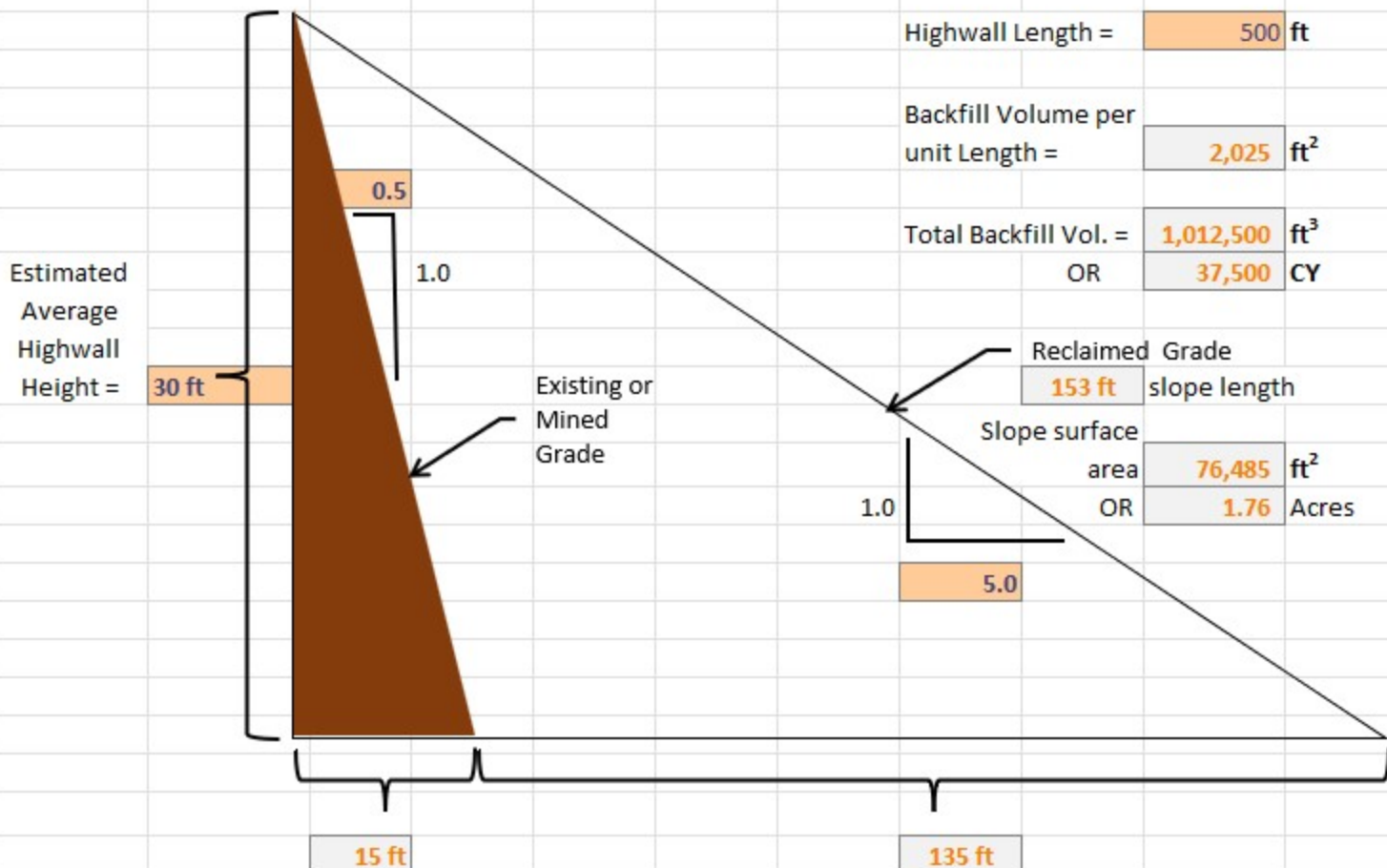
JOB TIME AND COST

Total job time: 5.78 Hours

Total job cost: \$6,650

PROJECT: West Side Placer
PERMIT No.:
HIGHWALL LOCATION: Mined Slope Each Phase

DATE: 2/4/2025
LEGEND
Input
Result



Highwall Length = 500 ft

Backfill Volume per unit Length = 2,025 ft²

Total Backfill Vol. = 1,012,500 ft³
OR 37,500 CY

Reclaimed Grade
153 ft slope length

Slope surface
area 76,485 ft²
OR 1.76 Acres

HIGHWALL BACKFILL VOLUME ESTIMATE