January 26, 2024

John Gilleland C & J Gravel Products, Inc. 27661 U.S. Hwy 160 E Durango, CO 81303



1313 Sherman Street, Room 215 Denver, CO 80203

# RE: Montoya Pit, Permit # M-1980-146, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$432,348.00. This is an increase of \$10,990.00 over the \$421,358.00 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

*Dustin Czapla* Environmental Protection Specialist Division of Reclamation, Mining and Safety Phone: (303) 866-3567, ext. 8188



# COST SUMMARY WORK

Task description:		2024-01-10 Upd	ate				
Site: Montoya Pit		Per	rmit Action:	2024-01-10 Update	Permit/Jol	o#: M1980146	
PROJECT Task #: Date: User:	IDENTIFIC 000 1/10/2024 DMC	CATION State: County:	Colorado La Plata		Abbreviation: Filename:	None M146-000	

Agency or organization name: \_\_\_\_\_\_DRMS\_\_\_\_

# TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
01a	Reduce highwall A5	DOZER	2	3.60	\$2,911
02a	General Dozing around area A5 and A6	DOZER	2	1.44	\$1,163
03a	Backfill highwall C	DOZER	2	22.94	\$18,571
04a	Reduce highwall Dw to 3:1	DOZER	2	9.17	\$7,419
05a	Haul 1/2 material from stockpile to backfill highwall Ds	TRUCK1	2	29.41	\$42,692
06a	Backfill 1/2 of highwall Ds	DOZER	2	12.81	\$10,368
07a	Reduce top half of Highwall Ds to 3:1	DOZER	2	16.94	\$13,709
08a	Backfill highwall Ex-S (Expansion Area)	DOZER	2	16.61	\$13,448
09a	Backfill Highwall EX-N (Expansion Area)	DOZER	2	5.03	\$4,074
10a	Rip all pit floors, compacted areas new and expansion area	RIPPER	2	33.35	\$31,326
11a	Distribute topsoil to all disturbed acres that will reveg.	TRUCK1	2	40.93	\$59,409
12a	Spread topsoil on areas to be revegetated	DOZER	2	15.41	\$12,477
13a	55.6 ac old BLM and 1/2 exp. w/second seeding and weed mgmt	REVEGE	1	16.00	\$91,705
14a	Second seeding onBLM +Private w/weed mgmt	REVEGE	1	16.00	\$32,212
15a	Mobilization	MOBILIZE	1	4.26	\$12,771
16a	Removal of fencing	DEMOLISH	1	6.00	\$2,360
		SUBTO	DTALS:	249.9	\$356,615

## **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

2.02	Total =	\$7,204
1.05	Total =	\$3,744
123.83	Total =	\$8,059
10.00	Total =	\$35,662
	TOTAL O & P =	\$54,668
	CONTRACT AMOUNT (direct + O & P) =	\$411,283
	1.05 123.83	1.05 Total = 123.83 Total =

#### 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		\$20,564

CONTINGENCY:	0.00	Total =	\$0	
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TOTAL BOND AMOUNT (direct + indirect) = \_\_\_\_\_\$432,348

Task description:	Reduce	e highwall A5			
Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	<b>FIFICATIO</b>	N			
Task #: 01A		State: Colorado		Abbreviation:	None
Date: $1/10/20$	)24	County: La Plata		Filename:	M146-01a
User: DMC		J		-	
Agency or o	organization na	me: DRMS			
HOURLY EQUIP	MENT COS	<u>T</u>			
Basic Machine:	Cat D10T - 10	)SU			
Horsepower:	574				
Blade Type:	Semi-Univers				
Attachment:	3-shank rippe	r			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:			1		
			Utilization %		
Ownership Cost/Ho		\$178.69	NA		
Operating Cost/Ho		\$160.22	100		
Ripper own. Cost/Ho		\$24.49	NA		
Ripper op. Cost/Ho		\$0.00	0		
		\$41.30	NTA		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL OUA	: \$404.70 r: <b>\$809.40</b>		NA		
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor:	: \$404.70 r: <b>\$809.40</b> ANTITIES 6,258 1.000				
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor:	: \$404.70 r: <b>\$809.40</b> ANTITIES 6,258				
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:	: \$404.70 r: <b>\$809.40</b> <b>ANTITIES</b> 6,258 1.000 <b>6,258</b> LCY				
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor:	: \$404.70 r: <b>\$809.40</b> ANTITIES 6,258 1.000 6,258 LCY volume:				
Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s	: \$404.70 r: \$809.40 ANTITIES 6,258 1.000 6,258 LCY volume: swell factor:	(330 LN*32'H)/27=6			
Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s	: \$404.70 r: \$809.40 ANTITIES 6,258 1.000 6,258 LCY 70lume: well factor:	(330 LN*32'H)/27=6 Cat Handbook			
Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated s	: \$404.70 r: \$809.40 ANTITIES 6,258 1.000 6,258 LCY 70lume: well factor: UCTION :e:1	(330 LN*32'H)/27=6 Cat Handbook 00 feet			
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated so <u>HOURLY PROD</u> Average push distance Unadjusted hourly pr	\$404.70         r:       \$809.40         ANTITIES         6,258         1.000         6,258 LCY         volume:         well factor:         UCTION         ce:       1         oduction:       1	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr	 ,258 CY		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pr Materials consistency	\$404.70         r:       \$809.40         ANTITIES         6,258         1.000         6,258 LCY         volume:         well factor:         well factor:         0         ce:       1         oduction:       1         y description:	(330 LN*32'H)/27=6 Cat Handbook 00 feet	 ,258 CY		
Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated so <u>HOURLY PROD</u> Average push distance Unadjusted hourly pr	\$404.70         r:       \$809.40         ANTITIES         6,258         1.000         6,258 LCY         /olume:         well factor:         well factor:         UCTION         xe:       1         oduction:       1         / description:         nt:       -5 %	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2	 ,258 CY		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated y Source of estimated y Source of estimated y Source of estimated y Average push distance Unadjusted hourly pr Materials consistency	\$404.70         r:       \$809.40         ANTITIES         6,258         1.000         6,258 LCY         /olume:         well factor:         well factor:         UCTION         xe:       1         oduction:       1         / description:         nt:       -5 %	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2	 ,258 CY		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude:	$\frac{$404.70}{$809.40}$ r: <u>\$809.40</u> ANTITIES 6,258 1.000 6,258 LCY Folume: For swell factor: UCTION For the set of	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2			
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated v Average push distand Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct	$\frac{$404.70}{$809.40}$ r: \$809.40 ANTITIES 6,258 1.000 6,258 LCY 70lume: well factor: 1 well factor: 1 0 UCTION re: 1 oduction: 1 y description: nt: -5 % 6,750 fe 2,650 lb Decomp retion Factor	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2 eet s/LCY posed rock - 25% Rock	, 75% Earth <u>Source</u>		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of	$\frac{$404.70}{$809.40}$ r: $\frac{$404.70}{$809.40}$ ANTITIES $\frac{6,258}{1.000}$ $\frac{6,258 \text{ LCY}}{70 \text{ lume:}}$ $\frac{9}{70 \text{ lume:}}$ $\frac{9}{$	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2 eet s/LCY posed rock - 25% Rock 0.750	, 75% Earth <u>Source</u> (AVG.)		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated v Source of estimated v Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con	\$404.70         r:       \$809.40         ANTITIES         6,258         1.000         6,258 LCY         /olume:	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2 et ss/LCY posed rock - 25% Rock 0.750 1.200	, 75% Earth 		
Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated v Source of estimated v Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con Dozing	$\frac{$404.70}{$809.40}$ r: $\frac{$404.70}{$809.40}$ ANTITIES $\frac{6,258}{1.000}$ $\frac{6,258 \text{ LCY}}{70 \text{ lume:}}$ $\frac{9}{70 \text{ lume:}}$ $\frac{9}{$	(330 LN*32'H)/27=6 Cat Handbook 00 feet ,718.9 LCY/hr Loose stockpile 1.2 eet s/LCY posed rock - 25% Rock 0.750	, 75% Earth <u>Source</u> (AVG.)		

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5061	
ed unit production: 86	9.94 LCY/hr	

Adjusted unit production:	869.94 LCY/hr
Adjusted fleet production:	1739.88 LCY/hr

Fleet size:	2 Dozer(s)
Unit cost:	\$0.465/LCY

Total job time:	<b>3.60</b> Hours
Total job cost:	\$2,911

		ii ounu ai ca	A5 and A6		
Montoya Pit	Perr	nit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDENTI	FICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: $1/10/2024$		La Plata		Filename:	M146-02a
User: DMC	County.	La Tiata		Thename.	W1140-02a
Agency or org	anization name: <u>DR</u>	MS			
HOURLY EQUIPM	IENT COST				
Basic Machine:C	at D10T - 10SU				
I	74				
×1	emi-Universal				
	-shank ripper				
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
a 11		<b></b>	Utilization %		
Ownership Cost/Hour:		\$178.69	NA		
Operating Cost/Hour:		\$160.22	100		
Ripper own. Cost/Hour:		\$24.49	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:	:	\$41.30	NA		
Total Fleet Cost/Hour:	\$404.70 <b>\$809.40</b>				
MATERIAL QUAN	\$809.40 TITIES				
MATERIAL QUAN Initial Volume: <u>2,5</u> Swell factor: <u>1.0</u>	<b>\$809.40</b> <b>TITIES</b> 500 000				
MATERIAL QUAN Initial Volume: <u>2,5</u> Swell factor: <u>1.0</u>	\$809.40 TITIES 500 000 500 LCY		for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5	<b>\$809.40</b> <b>TITIES</b> 500 500 500 LCY ume:DRMS Es		for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volume	\$809.40           TITIES           500           000           500 LCY           ume:         DRMS Es           ell factor:         Cat Hand		for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volt         Source of estimated sweet	\$809.40           TITIES           500           500           500 LCY           ume:         DRMS Es           ell factor:         Cat Handle           CTION         100 feet	book	tor finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto         Source of estimated sweet         HOURLY PRODUCT	\$809.40         TITIES         500         000         500 LCY         ume:       DRMS Es         ell factor:       Cat Hand         CTION         100 feet	book	tor finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto       2,5         Source of estimated volto       3,5         Source of estimated sweet       3,5         HOURLY PRODUC       3,5         Average push distance:       3,5	\$809.40           TITIES           500           500           500 LCY           ume:         DRMS Es           cat Handle           CTION           uuction:         100 feet           1,718.9 LCY	book	tor finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto       2,5         Source of estimated sweet       3,5         HOURLY PRODUC       Average push distance:         Unadjusted hourly prod       Materials consistency de         Average push gradient:       1,5	\$809.40         TITIES         500         000         500 LCY         ume:       DRMS Es         ell factor:       Cat Handle         CTION         uuction:       100 feet         1,718.9 LCY         escription:       Loose s         -5 %	book Y/hr	for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volt         Source of estimated sweet         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency definition	\$809.40           TITIES           500           000           500 LCY           ume:         DRMS Es           cat Handle           CTION           uction:         100 feet           1,718.9 LCY           escription:         Loose s	book Y/hr	for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto       2,5         Source of estimated sweet       3,5         HOURLY PRODUC       Average push distance:         Unadjusted hourly prod       Materials consistency de         Average push gradient:       1,5	\$809.40         TITIES         500         000         500 LCY         ume:       DRMS Es         ell factor:       Cat Handle         CTION         uuction:       100 feet         1,718.9 LCY         escription:       Loose s         -5 %	book Y/hr	for finish grading		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto       2,5         Source of estimated sweet       3,5         HOURLY PRODUC       4,6         Average push distance:       1,0         Unadjusted hourly prod       4,6         Average push gradient:       4,0         Average site altitude:       1,0	\$809.40           TITIES           500           000           500 LCY           ume:         DRMS Es           ell factor:         Cat Handle           CTION           uuction:         1,718.9 LCY           escription:         Loose s           -5 %         6,750 feet	book Ý/hr tockpile 1.2			
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto       2,5         Source of estimated volto       3,5         Source of estimated sweet       4,5         HOURLY PRODUC       4,5         Average push distance:       1,0         Unadjusted hourly prod       4,4         Average push gradient:       4,4         Average site altitude:       4,4         Material weight:       4,4         Weight description:       1,5         Job Condition Correction       1,0	\$809.40           TITIES           500           500 LCY           ume:         DRMS Es           cat Handle           CTION           auction:         100 feet           nuction:         1,718.9 LCY           escription:         Loose s           -5 %         6,750 feet           2,650 lbs/LCY         Decomposed rock	book Y/hr ttockpile 1.2	 		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volto         Source of estimated volto         Source of estimated sweet         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency de         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator	\$809.40           TITIES           500           500           500 LCY           ume:         DRMS Es           cat Handle           CTION           action:         100 feet           cat Handle           CTION           action:         1,718.9 LCY           escription:         Loose s           -5 %         6,750 feet           2,650 lbs/LCY         Decomposed rock           on Factor         0.7	book Y/hr tockpile 1.2 - 25% Rock, 750	75% Earth <u>Source</u> (AVG.)		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volt         Source of estimated volt         Source of estimated sweet         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency de         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist	\$809.40           TITIES           500           000           500 LCY           ume:         DRMS Es           cat Handle           CTION           action:         100 feet           action:         1,718.9 LCY           escription:         Loose s           -5 %         6,750 feet           2,650 lbs/LCY         Decomposed rock           on Factor         n           r Skill:         0.7	book Y/hr tockpile 1.2 - 25% Rock, 750 200	.75% Earth 		
MATERIAL QUAN         Initial Volume:       2,5         Swell factor:       1.0         Loose volume:       2,5         Source of estimated volt         Source of estimated sweet         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency de         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist         Dozing m	\$809.40TITIES500500500500500500CYume:DRMS Escat HandleCTIONCTIONuction:100 feetuction:100 feetuction:1,718.9 LCYescription:Loose s-5 %6,750 feet2,650 lbs/LCYDecomposed rockon Factorr Skill:0.7stency:1.7nethod:1.0	book Y/hr tockpile 1.2 - 25% Rock, 750	75% Earth <u>Source</u> (AVG.)		

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5061	
Adjusted unit production: 86	9.94 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.465/LCY

Total job time:	<b>1.44</b> Hours
Total job cost:	\$1,163

Adjusted fleet production: 1739.88 LCY/hr

Task description:	Backfill h	ighwall C			
: Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	<b>TIFICATION</b>				
Task #: 03A		State: Colorado		Abbreviation:	None
Date: $1/10/20$	024 Co	ounty: La Plata		Filename:	M146-03a
User: DMC		J		-	
Agency or	organization name	: DRMS			
HOURLY EQUIE	PMENT COST				
Basic Machine:	Cat D10T - 10SU	J			
Horsepower:	574				
Blade Type:	Semi-Universal				
Attachment: Shift Basis:	3-shank ripper 1 per day				
Data Source:	(CRG)				
-					
Cost Breakdown:			T T4:1:		
Ownership Cost/Ho	our.	\$178.69	<u>Utilization %</u> NA		
Operating Cost/Ho		\$178.69 \$160.22	100		
Ripper own. Cost/Ho		\$100.22	NA		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho		\$41.30	NA		
Total unit Cost/Hour	: \$404.70				
Swell factor:	17,794 1.000				
Loose volume:	17,794 LCY				
Source of estimated source of estimated		auled from B3 calcu at Handbook	lations		
HOURLY PROD					
A vorage much distant		_			
Average push distant	ce:200				
Unadjusted hourly pr	ce:200	feet 0 LCY/hr			
	ce: <u>200</u> roduction: <u>946</u> .				
Unadjusted hourly p	ce:	0 LCY/hr			
Unadjusted hourly provide the second	ce:	0 LCY/hr Loose stockpile 1.2			
Unadjusted hourly provide the second	ce: <u>200</u> roduction: <u>946</u> . y description: _ nt: <u>5 %</u> : <u>6,750 feet</u> <u>2,650 lbs/L</u>	0 LCY/hr Loose stockpile 1.2			
Unadjusted hourly provide the second	ce: <u>200</u> roduction: <u>946</u> . y description: nt: <u>5 %</u> : <u>6,750 feet</u> <u>2,650 lbs/L</u>  Decompose	0 LCY/hr Loose stockpile 1.2 			
Unadjusted hourly provide the second structure of the	ce:	0 LCY/hr Loose stockpile 1.2  CY ed rock - 25% Rock 0.750	, 75% Earth <u>Source</u> (AVG.)		
Unadjusted hourly provide the second structure of the	ce:	0 LCY/hr Loose stockpile 1.2  CY ed rock - 25% Rock  0.750  1.200	, 75% Earth <u>Source</u> (AVG.) (CAT HB)		
Unadjusted hourly provide the second structure of the	ce:	0 LCY/hr Loose stockpile 1.2  CY ed rock - 25% Rock 0.750	, 75% Earth <u>Source</u> (AVG.)		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.700	(FND-MF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	ne: 1.000	(PAT)
Net correctio	n: 0.4099	
Adjusted unit production:	387.77 LCY/hr	
Adjusted fleet production:	775.54 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.044/LCY

Total job time:	<b>22.94</b> Hours
Total job cost:	\$18,571

Task description:	Redu	uce highwall Dw to 3:1			
Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	TIFICATI	<u>ON</u>			
Task #: 04A		State: Colorado		Abbreviation:	None
Date: 1/10/2	.024	County: La Plata		Filename:	M146-04a
User: DMC					
Agency or	organization	name: DRMS			
HOURLY EQUI	PMENT CO	<u>DST</u>			
Basic Machine:	Cat D10T -	- 10SU			
Horsepower:	574				
Blade Type:	Semi-Univ				
Attachment:	3-shank rip	per			
Shift Basis:	$\frac{1 \text{ per day}}{(CPC)}$				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/H		\$178.69	NA		
Operating Cost/He		\$160.22	100		
Ripper own. Cost/He		\$24.49	NA		
Ripper op. Cost/He		\$0.00	0		
			NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou	r: <u>\$404</u> . ur: <b>\$809.</b>	40	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	r: <u>\$404.</u> ur: <b>\$809.</b> ANTITIES 14,734	70 <b>40</b>			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU	r: <u>\$404</u> . ur: <b>\$809.</b> ANTITIES	70 <b>40</b>			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	r: \$404. ur: <b>\$809.</b> ANTITIES 14,734 1.250 <b>18,418</b> LCY	70 <b>40</b> Oper prov,Reduce 1:	1 to 3:1 Highwall 1675 L	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	r: \$404. ur: <b>\$809.</b> <u>ANTITIES</u> 14,734 1.250 <b>18,418</b> LCY volume:	70 <b>40</b>		N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	r: \$404. ur: <b>\$809.</b> ANTITIES 14,734 1.250 <b>18,418</b> LCY volume: swell factor:	70 <b>40</b>  		N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	r: \$404. ur: \$809. ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: PUCTION	70 <b>40</b> Oper prov,Reduce 1: H Cat Handbook		N, avg 30'	
Operator Cost/He Total unit Cost/Heu Total Fleet Cost/Heu MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	r: \$404. ur: \$809. ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: UCTION ice:	70 <b>40</b> Oper prov,Reduce 1: H Cat Handbook 75 feet		N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	r: \$404. ur: \$809. ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: <u>VUCTION</u> ice: roduction:	70 <b>40</b> Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr	1 to 3:1 Highwall 1675 L	N, avg 30'	
Operator Cost/He Total unit Cost/Heu Total Fleet Cost/Heu MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	r: \$404. ur: \$809. ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: <u>VUCTION</u> ice: roduction:	70 <b>40</b> Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr	1 to 3:1 Highwall 1675 L	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	r: \$404. ur: \$809. ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: UCTION cce: roduction: vy description ent:5 %	70 40 40 Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr :: Compacted fill or o	1 to 3:1 Highwall 1675 L	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU/ Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	r: $$404$ .         ur: $$809$ . <b>ANTITIES</b> 14,734         1.250 <b>18,418</b> LCY         volume:         swell factor: <b>UCTION</b> ice:         roduction:         y description         ent: $-5 \%$ $6,750$	70 40 40 Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr :: Compacted fill or o	1 to 3:1 Highwall 1675 L	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	r: $$404.$ ur: $$809.$ ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: <u>UCTION</u> ice: roduction: $-5 \%$ e: <u>-5 %</u> 2,650	70 40 40 Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr :: Compacted fill or of feet	 1 to 3:1 Highwall 1675 L   embankment 0.9	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre	r: $404$ . ur: $8809$ . ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: UCTION ice: roduction: $-5\%$ c: $-5\%$ 2,650 Decom- extion Factor	70 40 Oper prov,Reduce 1: H Cat Handbook 75 feet 2,105.3 LCY/hr :: Compacted fill or of feet lbs/LCY	 1 to 3:1 Highwall 1675 L   embankment 0.9	N, avg 30'	
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper	r: $404$ . ur: $8809$ . ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: UCTION ice: roduction: - by description ent: -5 % 2,650 Decon extion Factor rator Skill: -	70         40         40         Oper prov,Reduce 1:         H         Cat Handbook         75 feet         2,105.3 LCY/hr         ::          Compacted fill or of feet         lbs/LCY         mposed rock - 25% Rocl         1.000	 1 to 3:1 Highwall 1675 L  embankment 0.9 c, 75% Earth <u>Source</u> (EXCL.)		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co	r: $404$ . ur: $8809$ . ANTITIES 14,734 1.250 18,418 LCY volume: swell factor: UCTION ice: roduction: - by description ent: -5 % 2,650 Decon extion Factor rator Skill: -	70         40         40         Oper prov,Reduce 1:         H         Cat Handbook         75 feet         2,105.3 LCY/hr         ::       Compacted fill or of         feet         lbs/LCY         mposed rock - 25% Rock	1 to 3:1 Highwall 1675 L  embankment 0.9		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	1,004.65 LCY/hr
Adjusted fleet production:	<b>2009.3</b> LCY/hr

Fleet size:	2 Dozer(s)
Unit cost:	\$0.403/LCY

Total job time:	9.17 Hours
Total job cost:	\$7,419

# TRUCK/LOADER TEAM WORK

Site: Montoya Pit	Montoya Pit Perm		it Action: 2024-01-10 Update			Permit/Job#: _	M1980146	
PROJECT IDEN	TIFICATION							
Task #: 05A		State:	Colorado	)	Ab	breviation:	None	
Date: $1/10/20$	024		La Plata	<u> </u>	110		M146-05a	
User: DMC								
Agency or o	organization nar	ne: DRM	/IS					
HOURLY EQUIP	PMENT COST	<u>r</u>			Shift bas	is: <u>1 per day</u>		
				uipment Descri	ption			
Tı	ruck Loader Tea		Cat 77					
Suppo	ort Equipment -L	-Loader:	CAT 9 NA	750H				
Suppo	1 1	imp Area:	NA					
Road Ma	intenance –Mot		NA					
	-Wa	ter Truck:	NA					
	T 1/I	1 T		G (1	<b>-</b> • ,		г ·	
<u>Cost Breakdown</u> :	Truck/Loa	ader Team Loader	1	Load Area	Equipment Dump Area	Motor Grade	nance Equipn er   Water T	
Utilization-machine:	100	Louder	100	NA	NA	NICTOR OF GLAC		N
Ownership cost/hour:	\$150.99	\$4	100	NA	NA	N.		N.
Operating cost/hour:	\$113.66		39.80	NA	NA	N.		N
%Utilization-riper:	NA	ψ.	0	NA	NA	N.		N
ipper own. cost/hour:	NA	\$	50.00	NA	NA	N		N
Ripper op. cost/hour:	NA	\$	50.00	NA	NA	N	A	N
Operator cost/hour:	\$33.34	\$4	0.71	NA	NA	N	A	N
Unit Subtotals:	\$297.99	\$12	29.83	NA	NA	N	A	N
Number of Units:	4		2	0	0		0	
Group Subtotals:	Work:	\$1,451.62	2	Support:	\$0.00	Main	t: \$0.00	
Total work team cost	t/hour \$1 151	()						
Total work team cos	/110ul. <u>\$1,451.</u>	02						
MATERIAL QUA	ANTITIES							
Initial volume:	28,865		CCY	Swell	factor: 1.000			
Loose volume:	28,86	5	LCY					
Sou	rce of estimated	volume:	1247 LI	N, avg 20' H hi	ghwall backrill fr	om .5:1 to 3:1=	=23,093	
Source	of estimated swe	-	Cat Har					
	Material Purch	ase Cost:	\$0.00					
	_	otal Cost:	\$0.00					

# Truck Capacity:<br/>Truck Payload (weight) Basis:Material weight:2,650Pounds/LCYDescription:Decomposed rock - 25% Rock, 75% EarthRated Payload:122,520PoundsPayload Capacity:46.23LCY

Truck Bed (volume) Basis: Struck Volume:	35.00 LO	СҮ				
Heaped Volume:		CY				
Average Volume:		CY				
Adjusted Volume:		CY				
Augusted Volume.	-10.25 E					
Final	Truck Volume B	ased on Number o	f Loader Passes:	42.57	LCY	
Loading Tool Capacity						
	4 200		Buck	tet Size Class: <u>N</u>	Α	_
Rated Capacity:	4.300	LCY (heaped)	(100	1200/) 1 100		-
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:		S	ite Altitude (ft.): <u>6</u>	5750 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	5)		
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.830				
Looding Tool Cool: The	NT1	fI and T ID	agon Demain 14	Fill Ten -1-:	0	
Loading Tool Cycle Time:		1 Loading 1001 Pa	isses Required to I	Fill Truck:	9 1	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v						
Track Loaders – I		<u> </u>				
Cycle Time Elements (min.):	1					
Load: NA	Mar	neuver: NA		Dump: 0.100	)	
Wheel and Track Loaders -	- Unadjusted Basi	c Loader Cycle Ti	me (load dump n	naneuver): 0	.500 minu	ites
Cycle Time Factors	Olladjusted Dash		ine (ioad, dump, i	·	1	ites
Material:	Mixed material	0.02		Factor (min.) 0.020	Source (Cat HB)	-
Stockpile:		zer piled 10 ft. hig	and up 0.00	0.020	(Cat HB)	_
Truck Ownership:	-	rship of trucks and		-0.040	(Cat HB)	_
Operation:	Constant operat	•	10000013 0.04	-0.040	(Cat HB)	_
Dump Target:	Nominal target			0.000	(Cat HB)	_
	1.0000000000000000000000000000000000000		ne Adjustment:	-0.060	minutes	_
			ler Cycle Time:	0.440	minutes	
			ime per Truck:	3.620	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.70	Minutes	Adjusted	for site altitude:	0.700	Minute
Truck Load Time:		Minutes	•	for site altitude:	3.620	Minute
k Maneuver and Dump Time:	1.10	Minutes	Adjusted	for site altitude:	1.100	Minute
						_

Haul Rou	te:							
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	400.00	)	0.00	3.00	3.00	2983	0.697	
					Haul Time:	0.697	minutes	
Return Ro	oute:							
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	400.00	)	0.00	3.00	3.00	3569	0.325	
					Return Time:	0.325	minutes	
				Total Tru	ck Cycle Time:	6.442	minutes	
Loading Too	ol unit							
	uction _	591.25	LCY/Hour		Adjusted for j	ob efficiency:	490.74	LCY/Hour
Truck Unit Produ	uction _	396.49	LCY/Hour		Adjusted for j	ob efficiency:	329.09	LCY/Hour
Optimal No. of Tr	rucks:	1	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 658.		
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 981.	.48 LCY/F	Iour
JOB TI	ME AN	D COST						
Fleet	size:	2	Team(s)	]	Total job time:	29.4	<b>1</b> Hour	S
Unit	cost:	\$1.479	/LCY		Total job cost:	\$42,69	92	

Task description:	Back	fill 1/2 of highwall Ds			
: Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	TIFICATIO	DN			
Task #: 06A		State: Colorado	)	Abbreviation:	None
Date: $1/10/2$	024	County: La Plata	·	Filename:	M146-06a
User: DMC		J		-	
Agency or	organization i	name: DRMS			
HOURLY EQUI	PMENT CO	<u>ost</u>			
Basic Machine:	Cat D10T -	10SU			
Horsepower:	574 Semi-Unive	#col			
Blade Type: Attachment:	3-shank ripp				
Shift Basis:	1 per day				
Data Source:	(CRG)				
-					
Cost Breakdown:					
			Utilization %		
Ownership Cost/He		\$178.69			
Operating Cost/He		\$160.22			
Ripper own. Cost/He		\$24.49 \$0.00			
Ripper op. Cost/He		\$0.00			
Operator Cost/He	our:	\$41.30	NA		
Total Fleet Cost/Hou	ur: <b>\$809.</b> 4				
Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	ur: <b>\$809.</b> 4 ANTITIES 28,865				
Total Fleet Cost/Hou MATERIAL QUA	ar: \$809.4				
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY		tion, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	ar: <b>\$809.4</b> <b>ANTITIES</b> 28,865 1.000 <b>28,865</b> LCY volume:		tion, Mining & Safety	<u>_</u>	
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY         volume:       swell factor:	Division of Reclama	tion, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY         volume:       swell factor:         UCTION       1	Division of Reclama Cat Handbook			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION       ce:	Division of Reclama	tion, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY         volume:       swell factor:         UCTION       ce:         roduction:	Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY         volume:       swell factor:         UCTION	Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	ar:       \$809.4         ANTITIES       28,865         1.000       28,865 LCY         volume:       swell factor:         volume:       swell factor:         UCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1.			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         WCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1.			
Total Fleet Cost/Hou MATERIAL QU/ Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1. feet	2		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight:	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION	Division of Reclama     	2		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1. feet lbs/LCY nposed rock - 25% Roc 0.750	2		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1. feet lbs/LCY nposed rock - 25% Roc 0.750 1.200	2 k, 75% Earth Source (AVG.) (CAT HB)		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co Dozin	ar:       \$809.4         ANTITIES       28,865         1.000       28,865         28,865       LCY         volume:       swell factor:         UCTION	Division of Reclama Division of Reclama Cat Handbook 50 feet 2,748.7 LCY/hr Loose stockpile 1. feet lbs/LCY nposed rock - 25% Roc 0.750	2 k, 75% Earth <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4099	
Adjusted unit production: 1	,126.69 LCY/hr	
Adjusted fleet production: 2	253.38 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.359/LCY

Total job time:	12.81 Hours
Total job cost:	\$10,368

	<b>Reduce top half of High</b>	wall Ds to 3:1		
: <u>Montoya Pit</u>	Permit Activ	on: 2024-01-10 Update	e Permit/Job#:	M1980146
PROJECT IDENTIF	TICATION			
Task #:         07A           Date:         1/10/2024           User:         DMC	State:     Colora       County:     La Pla		Abbreviation: Filename:	None M146-07a
Agency or orga	nization name: DRMS			
HOURLY EQUIPM	ENT COST			
	t D10T - 10SU			
Horsepower: 57				
51	mi-Universal			
	shank ripper			
· · · · · · · · · · · · · · · · · · ·	ber day			
Data Source: (C	RG)			
Cost Breakdown:				
		Utilization %	V <sub>0</sub>	
Ownership Cost/Hour:	\$178.			
Operating Cost/Hour:	\$160.			
Ripper own. Cost/Hour:	\$24.	49 NA		
Ripper op. Cost/Hour:	\$0.	00 0		
Operator Cost/Hour:	\$41.	30 NA		
MATERIAL QUAN           Initial Volume:         28,8           Swell factor:         1.25	365 50			
Initial Volume: 28,8 Swell factor: 1.2	365			
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swe	365 50 <b>981</b> LCY ume: <u>1/2 of highwall D</u> Il factor: Cat Handbook	s, 1247 LF x 50H=		
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu	365 50 <b>981</b> LCY ume: <u>1/2 of highwall D</u> Il factor: Cat Handbook	s, 1247 LF x 50H=		
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swe	365 50 <b>D81</b> LCY Ime: <u>1/2 of highwall D</u> Il factor: <u>Cat Handbook</u> TION 60 feet	s, 1247 LF x 50H=		
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	365         50         081 LCY         ume:       1/2 of highwall D         1l factor:       Cat Handbook         TION         60 feet         action:       2,551.3 LCY/hr	s, 1247 LF x 50H=   or embankment 0.9		
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ	365         50         081 LCY         ume:       1/2 of highwall D         1l factor:       Cat Handbook         TION         60 feet         action:       2,551.3 LCY/hr			
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	365         50         081 LCY         ume:       1/2 of highwall D         11 factor:       Cat Handbook         TION         action:       60 feet         2,551.3 LCY/hr         scription:       Compacted fill         -5 %			
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,0 Source of estimated volu Source of estimated swet HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	$\frac{365}{50}$ $\frac{365}{50}$ $\frac{361}{1}$ $\frac{1/2 \text{ of highwall D}}{11 \text{ factor: } Cat \text{ Handbook}}$ $\frac{110 \text{ factor: } Cat \text{ Handbook}}{110 \text{ factor: } 2,551.3 \text{ LCY/hr}}$ $\frac{-5 \%}{6,750 \text{ feet}}$	or embankment 0.9		
Initial Volume:       28,8         Swell factor:       1.22         Loose volume:       36,0         Source of estimated volu       Source of estimated swell         Source of estimated swell       HOURLY PRODUC         Average push distance:       Unadjusted hourly produ         Materials consistency de       Average site altitude:         Material weight:       Material weight:	$\frac{365}{50}$ $\frac{365}{50}$ $\frac{365}{50}$ $\frac{361}{1}$ $\frac{1/2 \text{ of highwall D}}{11 \text{ factor: Cat Handbook}}$ $\frac{60 \text{ feet}}{12,551.3 \text{ LCY/hr}}$ $\frac{60 \text{ feet}}{12,551.3 \text{ LCY/hr}}$ $\frac{-5 \%}{6,750 \text{ feet}}$ $\frac{2,650 \text{ lbs/LCY}}{100000000000000000000000000000000000$	or embankment 0.9		
Initial Volume:       28,8         Swell factor:       1.22         Loose volume:       36,0         Source of estimated volu       36,0         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator	$\frac{365}{50}$ $\frac{365}{50}$ $\frac{365}{50}$ $\frac{361}{1}$ $\frac{1/2 \text{ of highwall D}}{Cat \text{ Handbook}}$ $\frac{110 \text{ netring } 60 \text{ feet}}{Cat \text{ Handbook}}$ $\frac{60 \text{ feet}}{2,551.3 \text{ LCY/hr}}$ $\frac{-5 \%}{6,750 \text{ feet}}$ $\frac{2,650 \text{ lbs/LCY}}{Decomposed \text{ rock } - 25\% \text{ Fermion } 560 \text{ from } 500 \text{ for } 500$	or embankment 0.9 cock, 75% Earth	i.)	
Initial Volume:       28,8         Swell factor:       1.22         Loose volume:       36,0         Source of estimated volu       36,0         Source of estimated swell       Mource of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produce       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator         Material consist       Operator	365 $50$ $981$ LCY         ume: $1/2$ of highwall D         Il factor:       Cat Handbook         TION         action: $2,551.3$ LCY/hr         scription:       Compacted fill $-5%$ $6,750$ feet $2,650$ lbs/LCY         Decomposed rock - 25% F $n$ Factor         Skill: $0.750$ tency: $0.900$	or embankment 0.9 cock, 75% Earth <u>Source</u> (AVG	i.) IB))	
Initial Volume: 28,8 Swell factor: 1.22 Loose volume: 36,4 Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis Dozing material	365 $50$ $981$ LCY         ume: $1/2$ of highwall D         Il factor:       Cat Handbook         TION         action: $2,551.3$ LCY/hr         scription:       Compacted fill $-5%$ $6,750$ feet $2,650$ lbs/LCY         Decomposed rock - 25% F $n$ Factor         Skill: $0.750$ tency: $0.900$	or embankment 0.9 cock, 75% Earth	i.) IB)) SL)	

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4175	
Adjusted unit production: 1,0	065.17 LCY/hr	
Adjusted fleet production: 21	<b>30.34</b> LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.380/LCY

Total job time:	16.94 Hours
Total job cost:	\$13,709

	Backfill highwa	п бл-9 (блра	insion Area)		
: <u>Montoya Pit</u>	Pe	rmit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDENT	<b><u><b>FIFICATION</b></u></b>				
Task #: 08A	State:	Colorado		Abbreviation:	None
Date: $1/10/20$		-		Filename:	M146-08a
User: DMC			-		
Agency or c	organization name: <u>D</u>	RMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D10T - 10SU				
Horsepower:	574				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper				
Shift Basis: _	1 per day (CRG)				
Data Source:	(UNU)				
Cost Breakdown:					
		<b>A I - A I - A</b>	Utilization %		
Ownership Cost/Ho		\$178.69	NA		
Operating Cost/Ho		\$160.22	100		
Ripper own. Cost/Ho		\$24.49	NA		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho	ur:	\$41.30	NA		
MATERIAL OUA	NTITIES				
	17,167				
Initial Volume: Swell factor:					
Initial Volume: Swell factor:	17,167 1.250 <b>21,459</b> LCY volume: Oper. Pr	  rov. Highwall	max at 515 LN x 30'H,E	BF .5:1 to	
Initial Volume: Swell factor: Loose volume:	17,167 1.250 21,459 LCY volume: Oper. Pr 		max at 515 LN x 30'H,E	8F .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v	17,167         1.250 <b>21,459</b> LCY         volume:       Oper. Pr         3:1         swell factor:       Cat Han		max at 515 LN x 30'H,E	3F .5:1 to	
Initial Volume:	17,167 1.250 21,459 LCY volume: Oper. Pr 3:1 well factor: Cat Han UCTION		max at 515 LN x 30'H,E	3F .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s	17,167         1.250         21,459 LCY         volume:       Oper. Pr         3:1         swell factor:       Cat Han         UCTION         ce:       100 feet	dbook	max at 515 LN x 30'H,E	3F .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU	17,167         1.250 <b>21,459</b> LCY         volume:       Oper. Pr         3:1         swell factor:       Cat Han         UCTION         ce:       100 feet         voluction:       1,718.9 LC	dbook		3F .5:1 to	
Initial Volume:	17,167         1.250         21,459 LCY         volume:       Oper. Pr         3:1         swell factor:       Cat Han         UCTION         ce:       100 feet         oduction:       1,718.9 LC         v description:       Partly         nt:       5 %	dbook CY/hr		3F .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier	17,167         1.250         21,459 LCY         volume:       Oper. Pr         3:1         swell factor:       Cat Han         UCTION         ce:       100 feet         oduction:       1,718.9 LC         v description:       Partly         nt:       5 %	dbook CY/hr		BF .5:1 to	
Initial Volume:	17,167 $1.250$ $21,459$ LCY         volume:       Oper. Pr $3:1$ swell factor:       Cat Han         UCTION         see:       100 feet         oduction:       1,718.9 LC         y description:       Partly         nt: $5%$ 6,750 feet	dbook CY/hr consolidated		BF .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct	17,167 $1.250$ $21,459$ LCY         volume:       Oper. Pr $3:1$ swell factor: $Cat$ Han         UCTION         se: $100$ feet         oduction: $1,718.9$ LC         y description:       Partly         nt: $5%$ $6,750$ feet $2,650$ lbs/LCY         Decomposed rocl         etion Factor	dbook CY/hr consolidated k - 25% Rock;		BF .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera	17,167 $1.250$ $21,459$ LCY         volume:       Oper. Pr $3:1$ swell factor: $Cat$ Han         UCTION         see:       100 feet         roduction: $1,718.9$ LCY         v description:       Partly         nt: $5 %$ $6,750$ feet       2,650 lbs/LCY         Decomposed rock         etion Factor       0         ator Skill:       0	dbook CY/hr consolidated k - 25% Rock,		BF .5:1 to	
Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correce Opera Material cor	17,167 $1.250$ $21,459$ LCY         volume:       Oper. Pr $3:1$ swell factor:       Cat Han         UCTION         ce:       100 feet         oduction: $1,718.9$ LCY         v description:       Partly         nt: $5 %$ $6,750$ feet       2,650 lbs/LCY         Decomposed rock       200 rock         etion Factor       0 rock         ator Skill:       0 rock	dbook CY/hr consolidated k - 25% Rock;		BF .5:1 to	

1.000 0.830 0.700 0.903	(AVG.) (1 SHIFT/DAY) (FND-MF) (CAT HB)
0.700	(FND-MF)
	. ,
0.903	
	(CAI IID)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
757	
	0.868 1.000

Aujusted unit production.	043.73 LC 1/III
Adjusted fleet production:	1291.58 LCY/hr

Fleet size:	2 Dozer(s)
Unit cost:	\$0.627/LCY

Total job time:	16.61 Hours
Total job cost:	\$13,448

Task description:	Back	fill Highwal		pansion Arcaj		
Montoya Pit		Perr	mit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	<b>FIFICATI</b>	ON				
Task #:         09A           Date:         1/10/20           User:         DMC	024	State: County:	Colorado La Plata		Abbreviation: Filename:	None M146-09a
Agency or o	organization	name: DR	RMS			
HOURLY EQUIP	MENT CO	DST				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574	1				
Blade Type:	Semi-Unive					
Attachment:	3-shank rip	per				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Ho	our:		\$178.69	NA		
Operating Cost/Ho			\$160.22	100		
Ripper own. Cost/Ho			\$24.49	NA		
Ripper op. Cost/Ho	our:		\$0.00	0		
			\$41.30	NA		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou	: \$404.' r: <b>\$809.</b> '		\$41.30	NA		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume: Swell factor:	: \$404. ir: <b>\$809.</b> <b>ANTITIES</b> 8,667 1.000			NA		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	: \$404. ir: <b>\$809.</b> <b>ANTITIES</b> 8,667 1.000 <b>8,667</b> LCY	40				
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume: Swell factor:	: \$404.' str: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor:	40	  v., Highwall	 	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated s	: \$404.' ar: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce:	<b>40</b> Oper. Pro			to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v HOURLY PROD	: \$404. ar: \$809. ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: _	40 Oper. Pro Cat Hand 	  book Y/hr		to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pr	: \$404. r: <b>\$809.</b> <b>ANTITIES</b> 8,667 1.000 <b>8,667</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description nt:5 %	40 Oper. Pro Cat Hand 	  book Y/hr	 260 LN x30'H, BF .5:1 	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <b>MATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s <b>HOURLY PROD</b> Average push distance Unadjusted hourly put Materials consistences Average push gradies	: \$404.' ar: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: y description nt: 5 % : 6,750	40 Oper. Pro Cat Hand 	  book Y/hr	 260 LN x30'H, BF .5:1 	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pu Materials consistence Average push gradie: Average site altitude	: \$404.' sr: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: ' y description nt: 5 % : 6,750 2,650	40 Oper. Pro Cat Hand 100 feet 1,718.9 LC :Partly c feet	  v., Highwall book Y/hr consolidated 	 260 LN x30'H, BF .5:1   stockpile 1.1	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pu Materials consistence Average site altitude Material weight:	: \$404. ar: \$809. ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: y description nt: 5 % 2,650  Decor	40 Oper. Pro Cat Hand I00 feet I,718.9 LCY :Partly c feet Ibs/LCY	  v., Highwall book Y/hr consolidated 	 260 LN x30'H, BF .5:1   stockpile 1.1	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distance Unadjusted hourly pu Materials consistence Average site altitude Material weight: Weight description: Iob Condition Correct Operation	: \$404.' sr: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: y description nt: 5 % : 2,650  Decor ction Factor ator Skill:	40 Oper. Pro Oter Hand 100 feet 1,718.9 LCY :Partly c feet lbs/LCY mposed rock 1.		 260 LN x30'H, BF .5:1  stockpile 1.1	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distand Unadjusted hourly pu Materials consistence Average site altitude Material weight: Weight description: <u>Job Condition Correct</u> Operator	: \$404.' sr: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: y description nt: 5 % : 2,650  Decor ction Factor ator Skill: nsistency:	40 Oper. Pro Cat Hand 100 feet 1,718.9 LCY :Partly c feet lbs/LCY mposed rock 1. 1.		 260 LN x30'H, BF .5:1  stockpile 1.1  ,75% Earth  Source	to 3:1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distand Unadjusted hourly pu Materials consistence Average site altitude Material weight: Weight description: <u>Job Condition Correct</u> Operator	: \$404.' sr: \$809.' ANTITIES 8,667 1.000 8,667 LCY volume: swell factor: UCTION ce: roduction: y description nt: 5 % : 2,650  Decor ction Factor ator Skill:	40 Oper. Pro Cat Hand 100 feet 1,718.9 LCY :Partly c feet lbs/LCY mposed rock 1. 1.		 260 LN x30'H, BF .5:1  stockpile 1.1 , 75% Earth  (EXCL.)	to 3:1	

\_\_\_\_

0.830	(1 SHIFT/DAY)
	(I SIII I/DAI)
0.700	(FND-MF)
0.903	(CAT HB)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
0.5009	
51.00 I CV/hr	
	0.903 1.000 0.868 1.000

Adjusted unit production:	861.00 LCY/hr
Adjusted fleet production:	1722 LCY/hr

Fleet size:	2 Dozer(s)
Unit cost:	\$0.470/LCY

Total job time:	<b>5.03</b> Hours
Total job cost:	\$4,074

# BULLDOZER RIPPING WORK

site:	Mart D'		Dit A sti	202/ 01 10 11	data P		11000146
	Montoya Pit			2024-01-10 Up	date Per	rmit/Job#: <u>N</u>	11980146
<u>I</u>	PROJECT IDI	ENTIFICATIO	<u>ON</u>				
	Task #: 104		State: Colorado				one
		0/2024	County: La Plata		Fi	ilename: <u>M</u>	146-10a
	User: DN						
	Agency	or organization	name: DRMS				
Ī	HOURLY EQU	UIPMENT CO	<u>DST</u>				
	Basic I	Machine: Cat	D9T - 9SU		Horsepower:	405	
	Ripper Atta		hank Ripper		Shift Basis:	1 per d	
					Data Source:	(CRC	í)
C	Cost Breakdown:	:					
		-			Utilization %		
		Ownership Co		\$238.76	NA		
	<b>D</b> :	Operating Co		\$162.29	100 NIA		
		er Ownership Co per Operating Co		\$18.32 \$8.98	NA 100		
	Кірр	Operator Co		\$41.30	NA		
		Total Unit Co		\$469.65			
		Total Fleet Co	sat/U	9.30			
			593	9.30			
N	MATERIAL Q	<u>DUANTITIES</u>	Sel	ected estimating	method: Area		
<u> </u>	Alternate Method	<u>ls:</u>					
	27.4						
nic:	NA		Bank Volume:	NA	BCY	NA	
rea:	NA 49.30	acres	Bank Volume: Rip Depth (ft):	NA 1.50		NA 19,306	
-			Rip Depth (ft):	1.50	Volume: 1		
rea:	49.30	Source of estin		1.50	Volume: 1		
rea: <u>I</u>	49.30	Source of estin	Rip Depth (ft):	1.50	Volume: 1		
rea: <u>I</u>	49.30	Source of estin	Rip Depth (ft): nated quantity: <u>Opera</u>	1.50 tor Provided, DR	Volume: 1 MS verified	19,306	
rea: <u>I</u>	49.30	Source of estin	Rip Depth (ft):	1.50	Volume: 1	19,306	
rea: <u>I</u> <u>S</u>	49.30	Source of estin	Rip Depth (ft): nated quantity: <u>Opera</u> Seismic Velocity:	1.50 tor Provided, DR NA	Volume: 1 MS verified	19,306 nd	
rea: <u>I</u> <u>S</u>	49.30 HOURLY PRO Seismic:	Source of estin DDUCTION S Average	Rip Depth (ft): nated quantity: <u>Opera</u> Seismic Velocity: e Ripping Depth:	1.50 tor Provided, DR NA 2.63	Volume: 1 MS verified feet/seco feet/pass	19,306 nd	
rea: <u>I</u> <u>S</u>	49.30 HOURLY PRO Seismic:	Source of estin <u> <b>ODUCTION</b></u> S Average Average	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50 tor Provided, DR NA 2.63 7.67	Volume: 1 MS verified feet/seco feet/pass feet/pass	19,306 nd	
rea: <u>I</u> <u>S</u>	49.30 HOURLY PRO Seismic:	Source of estin <u>DDUCTION</u> S Average Average Average	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50 tor Provided, DR NA 2.63 7.67 500.00	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass	19,306 nd	
rea: <u>I</u> <u>S</u>	49.30 HOURLY PRO Seismic:	Source of estin <u>DDUCTION</u> S Average Average Average Average	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50 tor Provided, DR NA 2.63 7.67	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass feet/pass feet/pass	19,306 nd ıte	
rea: <u>I</u> <u>S</u>	49.30 HOURLY PRO Seismic:	Source of estin DDUCTION S Average Average Average Average Average	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass	19,306 nd ite pass	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area:	Source of estin <u>DDUCTION</u> S Average Average Average Average Average Average Average Average Average Average Average	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00           0.25	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/minu minutes/p	19,306 nd ite pass	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	NA           2.63           7.67           500.00           88.00           0.25           0.891	Volume: 1 MS verified feet/seco feet/pass feet/	nd ite pass ir	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	NA           2.63           7.67           500.00           88.00           0.25           0.891	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/minu minutes/j acres/hou	nd ite pass ir	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750	Volume: 1 MS verified feet/seco feet/pass feet	nd ite pass ir	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	I.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750           1.00	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass feet/minu minutes/j acres/hou Acres/hr feet (CAT HI	19,306 nd ite pass ir 3)	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750	Volume: 1 MS verified feet/seco feet/pass feet (CAT HI (1 shift/d	nd ite pass ir 3) ay)	
rea: <u></u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>prrection Factors</u> adjusted Hourly	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750           1.00           0.83           0.83	Volume: 1 MS verified feet/seco feet/pass feet (CAT HI (1 shift/d multiplie	nd ite pass ir 3) ay)	
rea: <u>B</u>	49.30 HOURLY PRO Seismic: Area: Job Condition Co	Source of estin <u>DDUCTION</u> S Average Average Average Product <u>orrection Factors</u> adjusted Hourly	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	I.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750           1.00           0.83           0.74	Volume: 1 MS verified feet/seco feet/pass feet (CAT HI Acres/hr Multiplie Acres/hr	nd ite pass ir 3) ay)	
rea: <u></u>  	49.30 HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin <u>DDUCTION</u> Average Average Average Product <u>orrection Factors</u> adjusted Hourly Adjusted H	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	I.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750           1.00           0.83           0.74	Volume: 1 MS verified feet/seco feet/pass feet (CAT HI (1 shift/d multiplie	nd ite pass ir 3) ay)	
rea: <u></u>  	49.30 HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin <u>DDUCTION</u> Average Average Average Average Product <u>orrection Factors</u> adjusted Hourly Adjusted I <u>Adjusted I</u>	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	1.50         tor Provided, DR         NA         2.63         7.67         500.00         88.00         0.25         0.891         6,750         1.00         0.83         0.74         1.48	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass feet/minu minutes/j acres/hou Acres/hr feet (CAT HI (1 shift/d multiplie Acres/hr Acres/hr	nd ite pass ir 3) ay) r	BCY or
rea: <u></u>  	49.30 HOURLY PRO Seismic: Area: Job Condition Co Un	Source of estin <u>DDUCTION</u> Average Average Average Product <u>orrection Factors</u> adjusted Hourly Adjusted H	Rip Depth (ft):         nated quantity:       Opera         Seismic Velocity:	I.50           tor Provided, DR           NA           2.63           7.67           500.00           88.00           0.25           0.891           6,750           1.00           0.83           0.74	Volume: 1 MS verified feet/seco feet/pass feet/pass feet/pass feet/pass feet/minu minutes/j acres/hou Acres/hr feet (CAT HI (1 shift/d multiplie Acres/hr Acres/hr	nd ite pass ir 3) ay)	BCY or

# TRUCK/LOADER TEAM WORK

Task description:Distribute topsoil to all disturbed acres that will reveg.									
Site: Montoya Pit	Permit Action: 2024-01-10 Update Permit/Job#: M1980146								
PROJECT IDEN	TIFICATION	-							
Task #: 11A			olora		Ab	breviation: Nor			
Date: 1/10/2024 County: La Plata Filename: M146-11a									
User: DMC									
Agency or	organization nar	ne: DRMS	5						
HOURLY EQUI	PMENT COST	<u>[</u>			Shift bas	sis: <u>1 per day</u>			
			1	Equipment Descri	ption				
]	Fruck Loader Tea			773F					
	ort Equipment -L	-Loader:	CA NA	Г 950Н					
Supp		ump Area:	NA						
Road M	aintenance – Mot		NA						
. <u></u>	-Wa	ter Truck:	NA						
Cost Breakdown:	Truck/Loa	ader Team		Support I	Equipment	Maintenan	ce Equipment		
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck		
%Utilization-machine:	100	1	100	NA	NA	NA	NA		
Ownership cost/hour:	\$150.99	\$49		NA	NA	NA	NA		
Operating cost/hour:	\$113.66	\$39		NA	NA	NA	NA		
%Utilization-riper:	NA	· · · ·	0	NA	NA	NA	NA		
Ripper own. cost/hour:	NA	\$0	.00	NA	NA	NA	NA		
Ripper op. cost/hour:	NA	\$0	.00	NA	NA	NA	NA		
Operator cost/hour:	\$33.34	\$40	.71	NA	NA	NA	NA		
Unit Subtotals:	\$297.99	\$129	.83	NA	NA	NA	NA		
Number of Units:	4		2	0	0	0	0		
Group Subtotals:	Work:	\$1,451.62		Support:	\$0.00	Maint:	\$0.00		
Total work team cos MATERIAL QU		62							
Initial volume			CCY	Swell	factor: <u>1.215</u>				
Loose volume			LCY						
	urce of estimated of estimated swe Material Purch To	ell factor:			M+1/2 18.3 Exp.	Area. 6"			
HOURLY PRO	DUCTION								
	veight: <u>1,600</u> iption: <u>Top Sc</u>			Pounds/LCY					
Rated Pa Payload Ca		U		Pounds LCY					

Truck Bed (volume) Basis:						
Struck Volume:	35.00	LCY				
Heaped Volume:	46.50	LCY				
Average Volume:	40.75	LCY				
Adjusted Volume:	46.50	LCY				
Fin	al Truck Volume	e Based on Number of	Loader Passes:	45.15	LCY	
Loading Tool Capacity						
<u>Louding roor cupuony</u>			Buc	ket Size Class: N	JA	
Rated Capacity:	4.300	LCY (heaped)	Due			
Bucket Fill Factor:	1.050	Other - moist loa	am (100-1	110%) 1.050		_
Adjusted Capacity:	4.515	LCY	dini (100-1	11070) 1.050		
Job Condition Correction	<u>18:</u>	Sit	e Altitude (ft.):	<u>6750</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	/		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
		0.000				
Loading Tool Cycle Time	<u>e:</u> Numbe	er of Loading Tool Pas	ses Required to	Fill Truck:	10	passes
Encoder and Encode Char	vels					
Excavators and Front Show	<u>vc15.</u>					
		on Rating: NA				
Machine Cycle Time						
Machine Cycle Time Selected Value	vs. Job Conditio	ic Rating: NA				
Machine Cycle Time Selected Value	e vs. Job Conditic e within this Bas – Material Descr	ic Rating: NA				
Machine Cycle Time Selected Valu Track Loaders Cycle Time Elements (min	e vs. Job Conditic e within this Bas – Material Descr ):	ic Rating: NA		  Dump: 0.10	0	
Machine Cycle Time Selected Valu Track Loaders	e vs. Job Conditic e within this Bas – Material Descr ):	ic Rating: NA		 Dump:0.10	0	
Machine Cycle Time Selected Valu Track Loaders Cycle Time Elements (min	e vs. Job Conditic e within this Bas – Material Descr .):	ic Rating: NA ription:	ne (load, dump, 1			nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loaders	e vs. Job Conditic e within this Bas – Material Descr ):  s - Unadjusted B	ic Rating: NA ription:	ne (load, dump, 1	maneuver): (	0.500 mir	nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u>	e vs. Job Conditic e within this Bas – Material Descr ):  s - Unadjusted B	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Tim			0.500 mir Source	nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material:	e vs. Job Conditic e within this Bas – Material Descr .): 	ic Rating: NA ription:	ole 0.00	maneuver):( Factor (min.)	0.500 mir	nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	e vs. Job Conditic e within this Bas – Material Descr .): s - Unadjusted B s - No adjustme : No adjustme	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicat	ble 0.00 n and up 0.00	maneuver):( Factor (min.) 0.000	0.500 mir Source (Cat HB)	nutes 
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Materials</u>	e vs. Job Conditic e within this Bas – Material Descr .): s - Unadjusted B s - No adjustme : Conveyor or : Common ow	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicat dozer piled 10 ft. high mership of trucks and	ble 0.00 n and up 0.00	maneuver):( Factor (min.) 0.000 0.000	0.500 mir Source (Cat HB) (Cat HB)	nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Materials Stockpile Truck Ownership	<ul> <li>vs. Job Conditione within this Bas</li> <li>Material Description</li> <li>.):</li> <li>s - Unadjusted Bas</li> <li>s - Unadjusted Bas</li> <li>No adjustme</li> <li>Conveyor or</li> <li>Common ow</li> <li>Constant operation</li> </ul>	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicate dozer piled 10 ft. high /nership of trucks and eration -0.04	ble 0.00 n and up 0.00	maneuver):( Factor (min.) 0.000 0.000 -0.040	0.500 mir Source (Cat HB) (Cat HB) (Cat HB)	nutes 
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership Operation:	<ul> <li>vs. Job Conditione within this Bas</li> <li>Material Description</li> <li>.):</li> <li>s - Unadjusted Bas</li> <li>s - Unadjusted Bas</li> <li>No adjustme</li> <li>Conveyor or</li> <li>Common ow</li> <li>Constant operation</li> </ul>	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicate dozer piled 10 ft. high /nership of trucks and eration -0.04 get 0.00 Net Cycle Tim	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment:	maneuver):( Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080	0.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	nutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership Operation:	<ul> <li>vs. Job Conditione within this Bas</li> <li>Material Description</li> <li>.):</li> <li>s - Unadjusted Bas</li> <li>S - Unadjusted Bas</li> <li>No adjustme</li> <li>Conveyor or</li> <li>Common ow</li> <li>Constant operation</li> </ul>	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicate dozer piled 10 ft. high /nership of trucks and eration -0.04 get 0.00 Net Cycle Tim Adjusted Loade	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time:	maneuver):( Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420	0.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	nutes 
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership Operation:	<ul> <li>vs. Job Conditione within this Bas</li> <li>Material Description</li> <li>.):</li> <li>s - Unadjusted Bas</li> <li>S - Unadjusted Bas</li> <li>No adjustme</li> <li>Conveyor or</li> <li>Common ow</li> <li>Constant operation</li> </ul>	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicate dozer piled 10 ft. high /nership of trucks and eration -0.04 get 0.00 Net Cycle Tim Adjusted Loade	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment:	maneuver):( Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080	0.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	nutes 
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile Truck Ownership Operation: Dump Target	<ul> <li>vs. Job Conditione within this Bas</li> <li>Material Description</li> <li>.):</li> <li>s - Unadjusted Bas</li> <li>S - Unadjusted Bas</li> <li>No adjustme</li> <li>Conveyor or</li> <li>Common ow</li> <li>Constant operation</li> </ul>	ic Rating: NA ription: Maneuver: NA asic Loader Cycle Tim ent - factor not applicate dozer piled 10 ft. high /nership of trucks and eration -0.04 get 0.00 Net Cycle Tim Adjusted Loade	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time:	maneuver):( Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420	0.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	nutes 
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	e vs. Job Conditic e within this Bas – Material Descr ): s - Unadjusted B s c No adjustme Conveyor or Common ow Constant ope Nominal targ	ic Rating: NA ription:	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck:	maneuver):( Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 3.880	0.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       minutes     minutes       minutes     minutes	
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership Operation: Dump Target: Truck Exchange Tim	e vs. Job Conditic e within this Bas – Material Descr .): 	ic Rating: NA ription:	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: rr Cycle Time: me per Truck: Adjusted	maneuver):( Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.420 3.880 for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.700	   
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Oycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	e vs. Job Conditic e within this Bas – Material Descr ): 	ic Rating: NA ription:	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: or Cycle Time: me per Truck: Adjusted Adjusted	maneuver):( Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 3.880 for site altitude: for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.700 3.880	     Minute
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership Operation: Dump Target: Truck Exchange Tim	e vs. Job Conditic e within this Bas – Material Descr ): 	ic Rating: NA ription:	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: or Cycle Time: me per Truck: Adjusted Adjusted	maneuver):( Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.420 3.880 for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.700	Minutes Minutes Minutes
Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Oycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	e vs. Job Conditic e within this Bas – Material Descr ): 	ic Rating: NA ription:	ble 0.00 n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck: Adjusted Adjusted Adjusted	maneuver):( Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 3.880 for site altitude: for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.700 3.880 1.100	     Minutes

Page 3 of 3

Haul Rou				I				
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1000.0	00	3.00	4.00	7.00	1244	0.898	
					Haul Time:	0.898	minutes	
Return Re	oute:				=			
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1000.0	00	-3.00	4.00	1.00	3569	0.442	
				Total Tru	Return Time: ick Cycle Time:	0.442 7.020	minute	
Loading Too Produ Truck Unit Produ	uction	591.48	LCY/Hour		Adjusted for j	ob efficiency:	490.93	LCY/Hour
	-	385.90	LCY/Hour		Adjusted for j	ob efficiency:	320.29	LCY/Hour
Optimal No. of Tr	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				le truck/loade	k team production er team production er team production	on: 490	.93 LCY	7/Hour 7/Hour 7/Hour
JOB TI	ME AN	D COST						
Fleet	size:	2	Team(s)	-	Total job time:	40.93	<b>3</b> Ho	ours
Unit	cost:	\$1.478	/LCY		Total job cost:	\$59,4	09	

Task description:	Spread	topsoil on areas to be	e revegetated		
: Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job#:	M1980146
PROJECT IDEN	<b>FIFICATION</b>	<u>1</u>			
Task #: 12A		State: Colorado		Abbreviation:	None
Date: $1/10/20$	)24	County: La Plata		Filename:	M146-12a
User: DMC	21	<u>La Flata</u>			W1140 12u
Agency or c	organization na	me: DRMS			
HOURLY EQUIP	MENT COS	T			
Basic Machine:	Cat D10T - 10	SU			
Horsepower:	574				
Blade Type:	Semi-Univers	al			
Attachment:	3-shank ripper	1			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
COSt Dicardo Will.			Utilization %		
Ownership Cost/Ho	ur:	\$178.69	NA		
Operating Cost/Ho		\$160.22	100		
Ripper own. Cost/Ho		\$24.49	NA		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho		\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA	r: <b>\$809.40</b>				
Total Fleet Cost/Hour MATERIAL QUA Initial Volume:	r: <b>\$809.40</b> ANTITIES 48,803				
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor:	r: <u>\$809.40</u>				
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v	r: \$809.40 <b>NTITIES</b> 48,803 1.000 48,803 LCY volume:	 Division of Reclamati	ion, Mining & Safety		
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s	r: \$809.40 <b>NTITIES</b> 48,803 1.000 48,803 LCY volume: swell factor:	Division of Reclamati Cat Handbook	on, Mining & Safety		
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU	r: \$809.40 <b>ANTITIES</b> 48,803 1.000 48,803 LCY 70lume: swell factor: UCTION	Cat Handbook	ion, Mining & Safety		
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODUC	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: UCTION ce: 7:	Cat Handbook	on, Mining & Safety		
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr	r: \$809.40	Cat Handbook 5 feet 105.3 LCY/hr			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODUC	r: \$809.40	Cat Handbook			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: UCTION se: voduction: v description: nt:0 %	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: UCTION ce: voduction: v description: nt:0 %	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude:	r: \$809.40 <b>ANTITIES</b> 48,803 1.000 48,803 LCY volume: well factor: UCTION ce:? oduction:? v description: at:0% 6,750 fe	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et s/LCY			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight:	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: UCTION re:? oduction:? v description: at:% 6,750 fe 1,600 lb Top Soil	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et s/LCY			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated v Materials consistency Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: well factor: UCTION re:? vdescription: nt:% 6,750 fe 6,750 fe 6,750 fe 6,750 fe 	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et s/LCY			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correce Opera Material cor	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: well factor: UCTION ce: v description: v description: f description: nt: 0 %  f description: nt: 0 %  f description: mission Factor ator Skill: nsistency:	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et 0.750 1.200			
Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Materials consistency Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material corr Dozing	r: \$809.40 ANTITIES 48,803 1.000 48,803 LCY volume: well factor: well factor: UCTION re:? vdescription: nt:% 6,750 fe 6,750 fe 6,750 fe 6,750 fe 	Cat Handbook 5 feet 105.3 LCY/hr Loose stockpile 1.2 et s/LCY 0.750			

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7519	
Adjusted unit production: 1,4	582.98 LCY/hr	
Adjusted fleet production: 31	65.96 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.256/LCY

Total job time:	<b>15.41</b> Hours
Total job cost:	\$12,477

# **REVEGETATION WORK**

Task description:	Task description:       55.6 ac old BLM and 1/2 exp. w/second seeding and weed mgmt				
Site: Montoya Pit		Permit Action:	2024-01-10 Update	Permit/Job	#: <u>M1980146</u>
PROJECT IDEN	NTIFICATION				
Task #: 13A	L	State: Colorado		Abbreviation:	None
Date: 1/10	)/2024 (	County: La Plata		Filename:	M146-13a
User: DM	С	-		-	

# **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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	2.00	0.62	\$39.00
Indian Ricegrass - Native	2.00	6.47	\$13.00
Chokecherry	2.00	0.14	\$58.00
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Sagebrush, Mountain or Big	0.15	7.92	\$2.96
Flax, Lewis Blue	0.15	1.00	\$2.48
Yarrow, White	1.00	63.59	\$40.00
Totals Seed Mix	11.30	89.83	\$181.44

#### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$257.62

# NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:		Cost /Acre: Cost /Acre*:	
		TILLING,SEEDIN		· · · · · ·
Initial Job Cost:	\$76,420.43			
Reseeding Job Cost:	\$15,284.09			
Total Job Cost:	\$91,705			
Job Hours:	16.00			

# **REVEGETATION WORK**

Task descrip	otion:	Second seeding of	onBLM +Pri	ivate w/weed mgmt		
Site: Montoya	Pit	Per	mit Action:	2024-01-10 Update	Permit/Jol	o#: M1980146
<b>PROJECT</b>	<u>IDENTIFIC</u>	ATION				
Task #:	14A	State:	Colorado		Abbreviation:	None
Date:	1/10/2024	County:	La Plata		Filename:	M146-14a
User:	DMC					
	ency or organiz	zation name: DR	MS			

# **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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	2.00	0.62	\$39.00
Indian Ricegrass - Native	2.00	6.47	\$13.00
Chokecherry	2.00	0.14	\$58.00
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Sagebrush, Mountain or Big	0.15	7.92	\$2.96
Flax, Lewis Blue	0.15	1.00	\$2.48
Yarrow, White	1.00	63.59	\$40.00
Totals Seed Mix	11.30	89.83	\$181.44

#### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	<b>Total Mulch Application Cost/Acre</b>	\$257.62

# NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ek Cost / Acre	\$0.00

	No. of Acres:	19.6	Cost /Acre:	\$1,643.45
Estimated Failure Rate:		20%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$32,211.62			
Reseeding Job Cost:	\$0.00		_	

coccurring solo cost.	ψυ.υυ
Total Job Cost:	\$32,212
Job Hours:	16.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilization					
e: <u>Montoya Pit</u>		Permit	Action: _2024	-01-10 Upc	late	Permit/Job#: <u>M</u>	1980146
PROJECT IDE	NTIFICATI	<u>ION</u>					
Task #: 15A	Δ	State: Co	olorado		Abbre	eviation: None	
Date: 1/1 User: DM	0/2024 IC	County: La	Plata		Fi	lename: M146	5-15a
Agency of	or organization	n name: DRMS					
EQUIPMENT 1	RANSPOR	T RIG COST					
					Shift ba		
				C	Cost Data Sour	rce: CRG Da	ita
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESEI	L POWERED,
					(2ND HALF,		
Truc	k Trailer Desc	cription: G				ROP DECK EQU	IPMENT
				IKAILEK	(25T, 50T, AN	ND 1001)	
Cost Breakdown:							
Available Rig C	anacities	0-25 Tons	26-50 Tons	51+	Tons		
	Cost/Hour:	\$20.26	\$36.04		7.05		
Operating Cost/Hour:		\$39.51	\$76.08		2.85		
	Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
	Cost/Hour:	\$0.00	\$23.53		3.53		
	Cost/Hour:	\$82.29	\$158.17		75.95		
		ł					
NON ROADAB	LE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		t	5120	fleet		
Cat D10T - 10SU	93.31	\$203.18	\$175.95	2	\$758.26	\$351.90	\$500.00
CAT 950H	20.13	\$49.32	\$82.29	1	\$131.61	\$82.29	\$250.00
Cat 773F	49.74	\$150.99	\$158.17	4	\$1,236.64	\$632.68	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
				California da 1	¢2 222 76	Ø1 331 4F	¢1 500 00
				Subtotals:	\$2,323.76	\$1,231.45	\$1,500.00

#### **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.	\$15.83	33 1		\$15.83
		Subtotals:	\$15.83	\$15.83

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	DURANGO 3.00 45.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$12,769.07	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$2.11	_

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment 0.07	Roadable Equipment 0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours): Unloading Time (Hours):	1.00	NA NA
Subtotals:	2.13	0.13

### JOB TIME AND COST

Total job time: **4.27** Hours

Total job cost: \$12,771

# **DEMOLITION WORK**

	Task description	n: <b>Remov</b>	al of fencing				
Site: Montoya Pit			Permit Action:	2024-01-10 Update	Per	mit/Job#:	M1980146
<u>PROJE</u>	CT IDENTIF	<b>ICATION</b>					
Task # Date User	: 1/10/2024 : DMC		tate: <u>Colorado</u> nty: <u>La Plata</u> e: <u>DRMS</u>		Abbreviati Filenar		1e 46-16a
<u>UNIT C</u>	<u>OSTS</u>				Location :	adjustmei	nt: 93.10 %
	ure or Item scription	Dimensions	Demolition Men Selection	u Quantity	Unit	Unit Cost	Total Cost
Wildlife friendly1440 LNfencing between skillsarea and mining area		1440 LN	Fencing, barbed wire strand	e, - 3 1,440.00	LF	\$1.76	\$2,534.40

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	6.00	(unadjusted):	\$2,534.40	location):	\$2,359.53