

November 20, 2023

Jim Doody Kilgore Companies LLC dba Elam Construction 556 Struthers Ave Grand Junction, CO 81501

RE: Woodring Pit, Permit No. M-1978-323, Proposed Surety Increase SI-5

Dear Mr. Doody:

This reclamation cost update was in response to the site inspection conducted on October 25, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2018 with SO-2. Below is a table summarizing input values that have been updated in since the SO-2 calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Dozer	Highwall reduction grade to 2H: 1V = 170,486 CCY
		70'H x 500 LF @ vertical backfill = 90,741
		20'H x 150LF + 900 LF @ vert cut/fill = 3,889
		15'H x 600LF @ 1H: 1V cut/fill = 625
		50'H x 1500 LF @ 1H: 1V backfill = 69,444
		50'H x 500 LF @ 1H: 1V cut/fill = 5,787
		Previously: 68,865 CY - 50'H x 300 LF @ Vertical cut/fill = 5,208, 50'H X 1100 LF @ 1H: 1V cut/fill = 12,731, 50'H x 1100 LF @ 1H: 1V backfill = 50,926



01b	Truck	Transport half of material for backfill of slopes = 80,093 CCY 400 yrd haul @ 0%
-	-	No slope overburden replacement, backfill/ grading material is overburden
02a	Dozer	Push topsoil down highwalls = 6,663 CY 120' slope length 3,000 LF = 8.26 ac @ 6" Avg 60 yrd push, -25%
03a	Dozer	Rough Grade Pit Floor – No Changes Prev: 20 ac @ 6" = 16,134 CCY, 50' push
04a	Ripper	Rip Pit Floor - No changes 20 ac
05a	Truck	Haul overburden to pit floor 20 ac @ 18" = 48,400 CCY (no change to volume), haul 500 LF 0%
05b	Dozer	Spread overburden on pit floor 54,450 LCY, 50' push
06a	Truck	Haul topsoil to pit floor 20 ac @ 6" = 16,133 CCY (no change to volume), haul 2700 LF -5%
06b	Dozer	Spread topsoil on pit floor 19,602 LCY, 50' push
07a	Reveg	 Reveg 28.26 acres Recommend TR to remove straw. If slopes are 2H:1V too steep to drill seed straw is impractical. Needs hydromulched if desired. Also remove fertilizer unless soil samples deem necessary
10a	Mob	Update equipment used
10b	Mob	Update equipment used

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Monday, January 22, 2024** then I'll issue SI-5 as is. SI-5 will result in a total required bond amount of **\$707,024**, which is an increase of <u>\$422,257.58</u> over the \$284,766.42 currently held.

M-1978-323 November 20, 2023 Page 3

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task descrip	otion:	2023 update					
Site: Woodrin	g Pit	Per	rmit Action:	SI-5	Permit/Job	o#: <u>M1978323</u>	
PROJECT Task #: Date: User:	IDENTIFIC ACY 11/20/2023 ACY	CATION State: County:	Colorado Mesa		Abbreviation: Filename:	None M323-ACY	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce highwalls to 2H:1V	DOZER	4	101.47	\$179,026
01b	Transport half of backfill for slopes	TRUCK1	2	82.83	\$129,370
02a	Push topsoil down highwalls	DOZER	4	1.11	\$1,952
03a	Rough Grade Pit Floor	DOZER	4	5.53	\$9,752
04a	Rip compaction on pit floor	RIPPER	4	6.71	\$12,585
05a	Haul overburden to pit floor	TRUCK1	2	51.64	\$80,650
05b	Spread Overburden on Pit floor	DOZER	4	12.43	\$21,939
06a	Haul topsoil to pit floor	TRUCK1	2	29.86	\$46,640
06b	Spread topsoil on pit floor	DOZER	4	2.70	\$4,768
07a	Revegetate affected lands	REVEGE	1	40.00	\$54,964
10a	Initial Mobilization	MOBILIZE	1	5.50	\$17,930
10B	Secondary Mobilization	MOBILIZE	1	5.50	\$2,437
		<u>SUBTO</u>	TALS:	345.28	\$562,013

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$11,353
Performance bond:	1.05	Total =	\$5,901
Job superintendent:	172.64	Total =	\$11,235
Profit:	10.00	Total =	\$56,201
		TOTAL O & P =	\$84,691
		CONTRACT AMOUNT (direct + O & P) =	\$646,704

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$27,485
Reclamation management and/or administration:	5.00		\$32,335
CONTINGENCY	0.00	Total =	\$0
	0.00	Total	φ0
		TOTAL INDIRECT COST =	\$145,011

TOTAL BOND AMOUNT (direct + indirect) = _____\$707,024

Task description:	Redu	ce highwalls	s to 2H:1V			
: Woodring Pit		Perr	nit Action:	SI-5	Permit/Job#:	M1978323
PROJECT IDEN7	FIFICATIO	DN				
Task # 01A		State:	Colorado		Abbreviation:	None
Date: $\frac{0111}{11/20/2}$	2023	County:	Mesa		Filename:	M323-01a
User: ACY		county.	mesu		T nonuno.	11020 014
Agency or o	organization	name: DR	MS			
HOURLY EQUIP	MENT CO	ST				
Basic Machine:	Cat D9T - 9	SU				
Horsepower:	405					
Blade Type:	Semi-Unive	rsal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Ho	ur:		\$238.76	NA		
Operating Cost/Ho	ur:		\$162.29	100		
Ripper own. Cost/Hor	ur:		\$0.00	NA		
Ripper op. Cost/Ho	ur:		\$0.00	0		
Operator Cost/Hor	ur:		\$40.04	NA		
Initial Volume:	170,486					
Loose volume:	1.125 191,797 LCY	7				
Source of estimated v	volume:	See staff e	estimates			
Source of estimated s	well factor:	Cat Hand	book			
HOURLY PRODU	UCTION					
		120 foot				
Average nuch distance		1201000	7/ha			
Average push distanc Unadjusted hourly pro	oduction:	1,093.1 LC	(/III)			
Average push distanc Unadjusted hourly pro Materials consistency	oduction:	<u> </u>	dated stock	pile 1.0		
Average push distanc Unadjusted hourly pro- Materials consistency Average push gradien Average site altitude:	oduction: v description: nt:0 % 5,400	Consoli	dated stock	pile 1.0		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradien Average site altitude: Material weight:	oduction: $\underline{}$ description: $\underline{}$ the description: $\underline{}$ \underline{} $\underline{}$ $\phantom{0$	<u>Consoli</u> feet lbs/LCY	dated stock	pile 1.0		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description:	oduction: v description: nt:0 % 5,400 2,650 Decon	Consoli Consoli feet lbs/LCY nposed rock		pile 1.0 , 75% Earth		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correc	oduction: v description: nt: 0 % 	<u>Consoli</u> <u>feet</u> lbs/LCY nposed rock	dated stockj	pile 1.0 , 75% Earth <u>Sourc</u> e		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correc Opera	oduction: v description: nt:	<u>Consoli</u> <u>feet</u> lbs/LCY nposed rock	dated stocky	pile 1.0 , 75% Earth <u>Source</u> (AVG.)		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correc Opera Material con	oduction:	<u>Consoli</u> feet lbs/LCY nposed rock	dated stocky 25% Rock 750 000	pile 1.0 , 75% Earth <u>Source</u> (AVG.) (CAT HB)		
Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correc Opera Material con Dozing	oduction: v description: v description: 0 % 5,400 2,650 	Consoli feet lbs/LCY nposed rock 0.' 1.1	- 25% Rock	pile 1.0 , 75% Earth (AVG.) (CAT HB) (GEN.)		

Task # 01A

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	nt: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4323	
Adjusted unit production:	472.55 LCY/hr	
Adjusted fleet production:	1890.2 LCY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$0.933/LCY

Total job time:	101.47 Hours
Total job cost:	\$179,026

TRUCK/LOADER TEAM WORK

Task description:	Transpo	ort half of backfi	ll for slopes			
Site: Woodring Pit		Permit Action	on: <u>SI-5</u>		Permit/Job#: <u>M</u>	1978323
PROJECT IDEN	TIFICATION					
Task #: 01B Date: 11/20 User: ACY	/2023	State: <u>Colora</u> County: <u>Mesa</u>	ado	Ab	breviation: <u>No</u> Filename: <u>M3</u>	ne 23-01b
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>ר</u>		Shift bas	is: <u>1 per day</u>	
		-	Equipment Descri	ption		
]	Fruck Loader Tea	m -Truck: Cat	730			
Supp	ort Equipment -I	-Loader: CA	<u>1 972H</u> D9T - 9SU			
	-Du	ump Area: NA				
Road M	aintenance – Mot	or Grader: NA				
	-Wa	ter Truck: NA				
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	NA	NA	NA
Ownership cost/hour:	\$108.06	\$57.78	\$238.76	NA	NA	NA
Operating cost/hour:	\$71.88	\$56.23	\$162.29	NA	NA	NA
%Utilization-riper:	NA	0	20	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$18.32	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$1.80	NA	NA	NA
Operator cost/hour:	\$24.82	\$35.97	\$40.04	NA	NA	NA
Unit Subtotals:	\$204.76	\$149.98	\$442.88	NA	NA	NA
Number of Units:	4	2	1	0	0	0
Group Subtotals:	Work:	\$1,119.00	Support:	\$442.88	Maint:	\$0.00
Total work team co	st/hour: <u>\$1,561.</u>	88				
MATERIAL QU Initial volume	ANTITIES : 80,093	CCY	Swell	factor: 1.125		
Loose volume	: 90,10	5 LCY				
So Source	urce of estimated of estimated swe Material Purch	volume:Divisell factor:Cat Hase Cost:\$0.00factor:\$0.00	sion of Reclamatic Handbook	on, Mining & Safe	ety	
HOURLY PRO	DUCTION	otal Cost: <u>\$0.00</u>)			
<u>Truck Capacity:</u> <u>Truck Payload (wei</u> Material y	ght) Basis:		Pounde/I CV			
Descr	ription: 2,050	posed rock - 25%	Rock, 75% Earth	1		
Rated Pa	ayload: 62,000		Pounds			
Payload Ca	pacity: 23.40		LCY			

	<u> 17.10 </u>	.CY				
Heaped Volume:	22.10 I	.CY				
Average Volume:	19.60 I	.CY				
Adjusted Volume:	22.10 I	LCY				
Final	Truck Volume I	Based on Number o	of Loader Passes:	18.48	LCY	
Loading Tool Capacity						
<u></u>			Buch	et Size Class N	Δ	
Rated Canacity:	5 600	I CV (heaped)	Duci		Α	_
Bucket Fill Factor:	1 100	Other - rock/div	rt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	6.160	LCY	It mixtures (100	-120/0/ 1.100		-
.j						
Job Condition Corrections:	_	S	ite Altitude (ft.): <u>4</u>	5400 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	5)		
Job Efficiency:	0.830	0.830	(CAT HB	5)		
				<u>.</u>		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	asses Required to 1	Fill Truck:	<u> 3 </u>	basses
Excavators and Front Shovel	ls:					
Mashina Coula Time o	. Ish Canditian	Deting NA				
Machine Cycle Time v	s. Job Condition	Rating: <u>NA</u>				
Machine Cycle Time v Selected Value v	s. Job Condition within this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Machine Cycle Time v Selected Value v Track Loaders –	s. Job Condition within this Basic Material Descrip	Rating: <u>NA</u> Rating: <u>NA</u> ption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Condition within this Basic Material Descrij	Rating: NA Rating: NA ption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Condition within this Basic Material Descrip	Rating: <u>NA</u> Rating: <u>NA</u> ption: <u>NA</u>		 		
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Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stocknile:	s. Job Condition within this Basic Material Descrip Ma Unadjusted Bas Material 3/4" t	Rating: NA Rating: NA ption:	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .525 minu Source (Cat HB) (Cat HB)	utes
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Haul	Route:						T 1	
Seg #	f Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	400.	00	0.00	5.00	5.00	1427	0.403	
					Haul Time:	0.403	minutes	
Retur	n Route:							
Seg #	ŧ Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	400.0	00	0.00	5.00	5.00	2646	0.311	
					Return Time:	0.311	minute	es
				Total Tru	ck Cycle Time:	3.384	minute	es
Looding	Toolumit				-			
Eoaunig	Production	663.95	LCY/Hour		Adjusted for i	ob efficiency:	551.08	LCY/Hour
Truck Unit P	roduction							
		327.66	LCY/Hour		Adjusted for j	ob efficiency:	271.96	LCY/Hour
Optimal No.	of Trucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 543	.91 LCY	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 543	.91 LCY	Y/Hour
			Adjusted multip	le truck/loade	er team production	on: 1,08 7	7.83 LCY	//Hour
JOB	TIME A	ND COST						
F	leet size:	2	Team(s)	-	Fotal job time:	82.8.	3 He	ours
τ	Unit cost:	\$1.436	/LCY		Total job cost:	\$129,3	670	

Page 1 of 2

Task description:	Push topsoil dow	n highwalls			
Woodring Pit	Perm	nit Action:	SI-5	Permit/Job#:	M1978323
PROJECT IDENTIF	TICATION				
Task #: 02A Date: 11/20/202 User: ACY	3 State: County:	Colorado Mesa		Abbreviation: Filename:	None M323-02a
Agency or orga	nization name: DR	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	tt D9T - 9SU				
Horsepower: 40	5 mi Universel				
Attachment: No	A				
Shift Basis: 1 t	ner dav				
Data Source: (C	RG)				
Cost Breakdown	,				
<u>cost broardown</u> .			Utilization %		
Ownership Cost/Hour:		\$238.76	NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.04	NA		
MATERIAL QUAN	<u>FITIES</u>				
Initial Volume: 6,60 Swell factor: 1.2	53 15 06 L CX				
Source of estimated volu	ime: Division of	— of Reclamati	on, Mining & Safety		
Source of estimated swe	ll factor: Cat Handl	oook			
HOURLY PRODUC	TION				
Average push distance: Unadjusted hourly produ	60 feet action: 1,872.0 LCY	//hr			
Materials consistency de	escription: <u>Compac</u>	cted fill or en	mbankment 0.9		
Average push gradient: Average site altitude:	-25 % 5,400 feet				
Material weight:	1,600 lbs/LCY			_	
Weight description:	Top Soil				
Job Condition Correction	n Factor		Source		
Operator	Skill: 0.7	750	(AVG.)		
Material consis	tency: 0.9	900	(CAT HB))		
Dozing m	ethod: <u>1.0</u>	000	(GEN.)		
Vici	bility: 1.0)00	(AVG.)		

Job efficient	ey:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(FND-RF)
Push gradie	nt:	1.516	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weig	ht:	1.438	(CAT HB)
Blade typ	be:	1.000	(PAT)
Net correction	on: 0.9771		
Adjusted unit production:	1,829.13 L	CY/hr	
Adjusted fleet production:	7316.52 LO	CY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$0.241/LCY

Total job time:	1.11 Hours
Total job cost:	\$1,952

Task description:	KO	ugn Orauc I n	1 1001			
Woodring Pit		Peri	mit Action:	SI-5	Permit/Job#:	M1978323
PROJECT IDE	NTIFICAT	<u>ION</u>				
Task #· 03A		State:	Colorado		Abbreviation:	None
Date: $11/20$)/2023	County:	Mesa		Filename:	M323-03a
User: ACY		County.	Mesa			W1525 05d
<u></u>						
Agency o	r organizatio	n name: DR	RMS			
HOURLY EQU	IPMENT C	COST				
Basic Machine:	Cat D9T -	- 9SU				
Horsepower:	405					
Blade Type:	Semi-Uni	versal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
0 11 0 7	T		0000 5 5	<u>Utilization</u>	<u>%</u>	
Ownership Cost/I	Hour:		\$238.76	NA		
Operating Cost/I	Hour:		\$162.29	100		
Ripper own. Cost/I	Hour:		\$0.00	NA		
Ripper op. Cost/I	Hour:		\$0.00	0		
~ ~ ~						
Operator Cost/l Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU	10ur:	1.09 6 4.34	\$40.04	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	10ur:	1.09 6 4.34 <u>S</u>	\$40.04 	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/He MATERIAL QU Initial Volume: Swell factor: Loose volume:	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC	1.09 64.34 <u>S</u> Y	\$40.04	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: 1000000000000000000000000000000000000	1.09 6 4.34 <u>S</u> Y 20 ac @ 6	\$40.04 	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor	1.09 64.34 <u>S</u> Y <u>20 ac @ 6</u> Cat Hand	\$40.04	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 16,134 1.125 18,151 LC d volume: d swell factor	1.09 64.34 S Y 20 ac @ 6 Cat Hand	\$40.04	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION 1000000000000000000000000000000000000	1.09 64.34 <u>S</u> Y <u>20 ac @ 6</u> Cat Hand	\$40.04	NA		
Operator Cost/l Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce:	1.09 64.34 S Y 20 ac @ 6 Cat Hand 50 feet	\$40.04	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROM Average push dista Unadjusted hourly	Hour: \$44 pur: \$1,7 JANTITIE 11,7 16,134 1.125 18,151 LC d volume: swell factor DUCTION nce: production:	1.09 64.34 S Y 20 ac @ 6 Cat Hand 50 feet 2,110.5 LC	\$40.04 	NA		
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consister	Hour: \$44 Dur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: according	1.09 64.34 <u>S</u> <u>Y</u> <u>20 ac @ 6</u> <u>Cat Hand</u> <u>50 feet</u> <u>2,110.5 LC</u> on: <u>Compa</u>	5" book Y/hr cted fill or e			
Operator Cost/l Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROJ Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud	Hour: $$44$ pur: $$1,7$ JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: icy description ient: 0% de: $5,400$	1.09 64.34 S Y 20 ac @ 6 Cat Hand	\$40.04			
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud	Hour: \$44 ur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: acy description ient: 0% le: $5,40$	1.09 64.34 S Y 20 ac @ 6 Cat Hand	\$40.04			
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description	Hour: \$44 ur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: ucy description ient: 0 % le: 5,40	1.09 64.34 S Y Y 20 ac @ 6 Cat Hand	\$40.04 			
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr	Hour: \$44 pur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: $0 %$ ient: $0 %$ ient: $0 %$ iz 2,65 : Dec	1.09 64.34 S Y 20 ac @ 6 Cat Hand	\$40.04			
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description <u>Job Condition Corr</u>	Hour: \$44 pur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor d swell factor DUCTION nce: production: production: $0 %$ ient: 0	1.09 64.34 S Y 20 ac @ 6 Y 20 ac @ 6 Cat Hand 50 feet 2,110.5 LC on: Compa 00 feet 00 lbs/LCY omposed rock 0.	\$40.04 		<u></u>	
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr Operator	Hour: \$44 ur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor DUCTION nce: production: acy description ient: 0 % le: 5,40 2,65 : Dec rection Factoo erator Skill: consistency:	1.09 64.34 S Y 20 ac @ @ Y 20 ac @ @ Cat Hand 50 feet 2,110.5 LC on: Compa 00 feet 00 feet 00 lbs/LCY omposed rock	\$40.04 		<u> <u> </u> <u></u></u>	
Operator Cost/I Total unit Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr Operator	Hour: \$44 ur: \$44 pur: \$1,7 JANTITIE 16,134 1.125 18,151 LC d volume: d swell factor d swell factor 0 DUCTION	1.09 64.34 S Y 20 ac @ 6 Y	\$40.04 		<u>ce</u> 3.) <u>IB))</u>	

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.3890	
Adjusted unit production:	820.98 LCY/hr	
Adjusted fleet production:	3283.92 LCY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$0.537/LCY

Total job time:	5.53 Hours
Total job cost:	\$9,752

BULLDOZER RIPPING WORK

	Task description	: Rip	compaction on pit floor			
Site	: Woodring Pit	;	Permit Action:	SI-5	Permit/Job	#: <u>M1978323</u>
	PROJECT ID	ENTIFICAT	ION			
	Task #: 04	A	State: Colorado		Abbreviation	: None
	Date: <u>11</u> User: AC	/20/2023 CY	County: Mesa		Filename	: <u>M323-04a</u>
	Agency	or organization	n name: DRMS			
	HOURLY EQ	UIPMENT C	OST			
	Basic	Machine: Ca	tt D9T - 9SU		Horsepower:	405
	Ripper Att	tachment: <u>3-</u>	Shank Ripper		Shift Basis:	l per day
	Cost Breakdown					(CRO)
	Cost Dicardo wi	<u>.</u>			Utilization %	
		Ownership C	Cost/Hour:	\$238.76	NA	
	Dinn	Operating C	Cost/Hour:	\$162.29	<u>100</u>	
	Ripp	er Ownersnip C	ost/Hour:	\$18.52	<u> </u>	
	Kipj	Operator C	ost/Hour	\$40.04	NA	
		Total Unit C	Cost/Hour:	\$468.39		
		Total Fleet C	Cost/Hour: \$1,87	3.54		
	MATERIAL (QUANTITIES	Sele	cted estimating r	nethod: Area	
	Alternate Method	ds:		-		
ismic:	NA		Bank Volume:	NA	BCY	NA
Area:	20.00	acres	Rip Depth (ft):	1.50	Volume: <u>48,400</u>	BCY or 0
		Source of esti	mated quantity:20 ac p	it floor		
	HOURLY PR	ODUCTION				
	Seismic:					
			Seismic Velocity:	NA	feet/second	
	Area:					
		Avera	ge Ripping Depth:	1.50	feet/pass	
		Avera	ge Ripping Width:	7.67	feet/pass	
		Averag	e Ripping Length:	600.00	feet/pass	
		Ave	rage Dozer Speed:	88.00	feet/minute	
		Averag	e Maneuver Time:	0.25	minutes/pass	
	Job Condition C	Produc	cuon per unit area:	0.897	acres/nour	
	JOD CONULION CO	adjusted Hourly	<u>s</u> u Unit Production:	0.807	A cros/br	
	UI.		Site Altitude:	5 400	Acres/III	
			Altitude Adi:	3,400	$\frac{1000}{(CAT HB)}$	
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.83	multiplier	
		Adjusted	Hourly Unit Production:	0.74	Acres/hr	
		Adjusted	Hourly Fleet Production:	2.98	Acres/hr	
	JUB HME A		Cradad	Tatal '.1.4'		TT.
	Fleet size:	4	Grader(s)	Total job time:	6.72	Hours
	Unit cost:	\$629.256	Per acre	Total job cost:	\$12,585	

TRUCK/LOADER TEAM WORK

Task description:	Haul ove	erburden to pit	floor			
Site: Woodring Pit		Permit Act	ion: <u>SI-5</u>		Permit/Job#: <u>M</u>	1978323
PROJECT IDEN	<u>FIFICATION</u>					
Task #: 05A		State: Color	rado	Ab	breviation: No	ne
Date: $11/20/2$	2023	County: Mesa			Filename: M3	323-05a
User: ACY						
Agency or o	organization nam	e: DRMS				
HOURLY EQUIP	<u>PMENT COST</u>	-		Shift bas	sis: <u>1 per day</u>	
	1.1.1.77	T 1 C	Equipment Descri	ption		
Ti	ruck Loader Tear	n - Truck: Ca	t 730 AT 972H			
Suppo	ort Equipment -Lo	Dad Area: Ca	t D9T - 9SU			
	-Du	mp Area: NA	Δ			
Road Ma	intenance – Moto	or Grader: NA	A			
	- w at	er Truck: INP	1			
Cost Breakdown:	Truck/Loa	der Team	Support l	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	NA	NA	NA
Ownership cost/hour:	\$108.06	\$57.78	\$238.76	NA	NA	NA
Operating cost/hour:	\$71.88	\$56.23	\$162.29	NA	NA	NA
%Utilization-riper:	NA	0	20	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$18.32	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$1.80	NA	NA	NA
Operator cost/hour:	\$24.82	\$35.97	\$40.04	NA	NA	NA
Unit Subtotals:	\$204.76	\$149.98	\$442.88	NA	NA	NA
Number of Units:	4	2	1	0	0	0
Group Subtotals:	Work:	\$1,119.00	Support:	\$442.88	Maint:	\$0.00
Total work team cost	t/hour: <u>\$1,561.8</u>	8				
MATEDIAL OUA	NTITIES					
MATERIAL QUE	ANTITES					
Initial volume:	48,400		Y Swell	factor: <u>1.125</u>		
Loose volume:	54,450		ſ			
Sou	rce of estimated	volume: $20 a$	c @ 18"			<u> </u>
Source	Material Purcha	se Cost: \$0.0	Handbook			
	То	tal Cost: $\frac{0.0}{0.0}$	00			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	ht) Basis:		D			
Material w	eight: 2,650	osed rock 250	Pounds/LCY	1		
Rated Pay	/load: 62,000		Pounds	1		
Payload Cap	acity: 23.40		LCY			

Struck volume.	17 10 1	LCY				
Heaped Volume	22.10					
Average Volume:	19.60					
Adjusted Volume:	22.10					
Augusted volume.						
Fina	l Truck Volume	Based on Number o	of Loader Passes:	18.48	LCY	
Loading Tool Capacity						
			Buck	ket Size Class: <u>N</u>	A	_
Rated Capacity:	5.600	LCY (heaped)				
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	6.160	LCY				-
Job Condition Corrections	:	S	ite Altitude (ft.): 5	5400 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	3)		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.830				
	0.000	0.020				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	asses Required to 1	Fill Truck:	3 p	asses
Excavators and Front Shove	els:					
Machina Cycle Time y	ve Job Condition	Pating: NA				
Machine Cycle Time v Selected Value	vs. Job Condition within this Basic	n Rating: <u>NA</u> c Rating: <u>NA</u>				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Condition within this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Condition within this Basic Material Descri :	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Condition within this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u>		 Dump: 0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Basic Material Descri : 	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u>	me (load dump r	Dump: 0.100)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Basic Material Descri : Unadjusted Bas	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump: 0.100 naneuver): 0) .525 minu	ıtes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> Material:	vs. Job Condition within this Basic Material Descri : 	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) .525 minu Source (Cat HB)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	vs. Job Condition within this Basic Material Description - Material Basic Material 3/4" Conveyor or d	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. bis	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .525 minu Source (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ation -0.04	me (load, dump, r gh and up 0.00 able 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig t - factor not applica ration -0.04 et 0.00	me (load, dump, r gh and up 0.00 able 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ation -0.04 et 0.00 Net Cycle Tin	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.0485) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basic Material Descri - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.0485 1.070) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basic Material Descri : - Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.485 1.070) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Ites
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Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation: Dump Target: Truck Exchange Time Truck Load Time	 vs. Job Condition within this Basic Material Descri Material Descri Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe e: 0.60 e: 1.070 e: 1.00 	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hig t - factor not applica ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment: ler Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.485 1.070 1.070 for site altitude: for site altitude: for site altitude:) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.070 1.000	Ites
Machine Cycle Time v 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 Time Truck Load Time	 vs. Job Condition within this Basic Material Descri Material Descri Unadjusted Bas Material 3/4" Conveyor or d No adjustmen Constant oper Nominal targe e: 0.60 e: 1.00 	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig t - factor not applica ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 able 0.00 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.485 1.070 1.070 for site altitude:) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.070 1.000 torg 2" times	Ites Minutes Minutes Minutes

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	500.0	00	0.00	5.00	5.00	1427	0.473	
	D D					Haul Time:	0.473	minute	S
	Return Ro	oute:						T 1	٦
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	(min)	_
	1	500.0	00	0.00	5.00	5.00	2646	0.348	
					Total Tru	Return Time: ck Cycle Time:	0.348 3.491	minu minu	tes
Lo Truck	ading Too Produ Unit Produ	l unit oction	663.95	LCY/Hour		Adjusted for j	ob efficiency:	551.08	LCY/Hour
			317.62	LCY/Hour		Adjusted for j	ob efficiency:	263.62	LCY/Hour
Optimal	l No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: 527	.24 LC	Y/Hour
				Adjusted sing	le truck/loade	er team production	on: 527	.24 LC	Y/Hour
				Adjusted multip	le truck/loade	er team production	on: 1,05 4	4.49 LC	Y/Hour
	JOB TIN	ME AI	ND COST						
	Fleet	size:	2	Team(s)]	Fotal job time:	51.64	4 F	Iours
	Unit o	cost:	\$1.481	/LCY		Total job cost:	\$80,6	50	

Task description:	Spread Overbur	den on Pit fl	oor		
Woodring Pit	Per	mit Action:	SI-5	Permit/Job#:	M1978323
PROJECT IDENTI	FICATION				
Task #: 05B	State:	Colorado		Abbreviation:	None
Date: 11/20/202	23 County:	Mesa		Filename:	M323-05b
User: ACY					
Agency or org	anization name:	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine:C	at D9T - 9SU				
Horsepower: 40)5		_		
Attachmont: N	emi-Universal				
Shift Basis: 1	ner dav				
Data Source: ((CRG)		_		
Cost Breakdown:			Litilization %		
Ownership Cost/Hour	:	\$238.76	NA		
Operating Cost/Hour	·	\$162.29	100		
Ripper own. Cost/Hour	:	\$0.00	NA		
Ripper op. Cost/Hour	:	\$0.00	0		
Operator Cost/Hour		\$40.04	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$441.09 \$1,764.34	\$ 10.0 T			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$441.09 \$1,764.34 TITIES	\$ 1010 T			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54.	\$441.09 \$1,764.34 TITIES 450				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54 Swell factor: 1.0	\$441.09 \$1,764.34 TITIES 450 00 450 L CX				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54,	\$441.09 \$1,764.34 TITIES 450 000 450 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54 Swell factor: 1.0 Loose volume: 54 Source of estimated vol Source of estimated swe	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division ell factor: Cat Hand	of Reclamatic	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54, Source of estimated vol Source of estimated swe HOURLY PRODUC	\$441.09 \$1,764.34 TITIES 450 000 450 LCY ume: Division ell factor: Cat Hance CTION	of Reclamatic	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>54</u> . Swell factor: <u>1.0</u> Loose volume: <u>54</u> . Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division cat Hand CTION 50 feet	of Reclamatic	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54. Swell factor: 1.0 Loose volume: 54. Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division ell factor: Cat Hance CTION uction: 50 feet 2,110.5 LC	of Reclamatic book	on, Mining & Safety		
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54, Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division ell factor: Cat Hand CTION uction: 2,110.5 LC escription: Loose 0 % 5,400 feet	of Reclamation book	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54, Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight:	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division ell factor: Cat Hand CTION uction: 50 feet 2,110.5 LC escription: Loose 0% 5,400 feet 2,650 lbs/LCY	of Reclamatic book	on, Mining & Safety		
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54, Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$441.09 \$1,764.34 TITIES 450 00 450 LCY ume: Division ell factor: Cat Hand CTION uction: 2,110.5 LC escription: Loose 0 % 5,400 feet 2,650 lbs/LCY Decomposed rock on Factor	of Reclamation book			
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 54, Swell factor: 1.0 Loose volume: 54, Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato Material consi	$\begin{array}{c} & \$441.09 \\ \hline \$1,764.34 \\ \hline \\ \hline TITIES \\ \\ \hline 450 \\ 00 \\ \hline 450 \\ LCY \\ \hline \\ ume: Division \\ \hline \\ 450 \\ LCY \\ \hline \\ ume: Division \\ \hline \\ 450 \\ LCY \\ \hline \\ ume: Division \\ \hline \\ 100 \\ \hline \\ 50 \\ feet \\ \hline \\ 2,110.5 \\ LC \\ \hline \\ \hline \\ cat Hand \\ \hline \\ \hline \\ \hline \\ cat Hand \\ \hline \\ \hline \\ \hline \\ cat Hand \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ cat Hand \\ \hline \\ $		on, Mining & Safety		

Task # 05B

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(FND-RF)
Push gradie	nt:	1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	ht:	0.868	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on: 0.51	87	
Adjusted unit production:	1,094.72	LCY/hr	
Adjusted fleet production:	4378.88	LCY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$0.403/LCY

Total job time:	12.43 Hours
Total job cost:	\$21,939

TRUCK/LOADER TEAM WORK

Task description: Haul topsoil to pit floor								
Site: Woodring Pit	Site: Woodring Pit Permit Action:]	Permit/Job#: <u>M</u>	1978323		
PROJECT IDEN	TIFICATION							
Task #: 06A Date: 11/20 User: ACY	/2023	State: Colora County: Mesa	udo	Ab	breviation: Nor Filename: M3	ne 23-06a		
Agency of	organization nan	ne: DRMS						
HOURLY EQUI	HOURLY EQUIPMENT COST Shift basis: <u>1 per day</u>							
		I	Equipment Descri	ption				
r	Truck Loader Team -Truck: Cat 730							
Sun	ort Equipmont I	-Loader: CAT	F 972H					
Supp	-Dı	imp Area: NA	D91 - 930					
Road M	laintenance – Mote	or Grader: NA						
	-Wa	ter Truck: NA						
Cost Breakdown:	Truck/Los	ader Team	Support 1	Equipment	Maintenan	ce Equipment		
<u>eost Diculture</u>	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck		
%Utilization-machine:	100	100	100	NA	NA	NA		
Ownership cost/hour:	\$108.06	\$57.78	\$238.76	NA	NA	NA		
Operating cost/hour:	\$71.88	\$56.23	\$162.29	NA	NA	NA		
%Utilization-riper:	NA	0	20	NA	NA	NA		
Ripper own. cost/hour:	NA	\$0.00	\$18.32	NA	NA	NA		
Ripper op. cost/hour:	NA	\$0.00	\$1.80	NA	NA	NA		
Operator cost/hour:	\$24.82	\$35.97	\$40.04	NA	NA	NA		
Unit Subtotals:	\$204.76	\$149.98	\$442.88	NA	NA 0	NA		
Group Subtotals:	4 Work:	<u>2</u> \$1 119 00	Support:	\$442.88	0 Maint:	\$0.00		
Group Subtotais.	work.	\$1,119.00	Support.	φ442.00	Want.	\$0.00		
Total work team co	st/hour: <u>\$1,561.8</u>	<u> 88 </u>						
MATERIAL QU	ANTITIES							
Initial volume	· 16.133	CCY	Swell	factor: 1.215				
Loose volume	: 10,135	2 LCY	5 wen	1.215				
Sc	urce of estimated	volume: 20 ac	@ 6"					
Source	of estimated swe	ll factor: Cat H	Iandbook					
	Material Purcha	ase Cost: $\$0.00$)					
	10	otal Cost: <u>50.00</u>)					
HOURLY PRO	DUCTION							
<u>Truck Capacity:</u>								
Truck Payload (wei	ght) Basis:							
Material v Desci	veignt: <u>1,600</u>	il	Pounds/LCY					
Rated Pa	ayload: $62,000$		Pounds					
Payload Ca	Payload Capacity: 38.75							

Cycle Time Elements (min Load: NA Wheel and Track Loader: Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target Truck Exchange Tim Truck Load Tim Ck Maneuver and Dump Tim	.): Material 3/4" Material 3/4" Conveyor or No adjustment Constant ope Nominal targ	Maneuver: NA asic Loader Cycle Tir asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes	ne (load, dump, r h and up 0.00 ble 0.00 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 0.000 0.000 -0.040 0.485 1.070 1.070 for site altitude: for site altitude: for site altitude:) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.070 1.000	Minute Minute Minute
Cycle Time Elements (min Load: NA Wheel and Track Loader: Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target Truck Exchange Tim Truck Load Tim	.): Material 3/4" Material 3/4" Conveyor or No adjustmen Constant ope Nominal targ	faneuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	ne (load, dump, r h and up 0.00 ble 0.00 ne Adjustment: er Cycle Time: 'ime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 0.000 0.000 -0.040 0.000 -0.040 0.485 1.070) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.070	ttes Minute Minute
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Cycle Time Elements (min Load: NA Wheel and Track Loader: Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target	.): N s - Unadjusted Ba s : Material 3/4" : Conveyor or : No adjustmen : Constant ope : Nominal targ	Ianeuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	ne (load, dump, r h and up 0.00 ble 0.00 ne Adjustment: er Cycle Time: 'ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.040 0.485 1.070) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target	.): Material 3/4" Conveyor or No adjustment Constant ope Nominal targ	faneuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	ne (load, dump, r h and up 0.00 ble 0.00 ne Adjustment: er Cycle Time: 'ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.485 1.070) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target	.): Material 3/4" Material 3/4" Conveyor or No adjustmen Constant ope Nominal targ	faneuver: NA asic Loader Cycle Tir <u>' to 6" diameter 0.00</u> dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin Adjusted Load	ne (load, dump, r h and up 0.00 ble 0.00 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.485 1.070) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target	.): Material 3/4" Material 3/4" Conveyor or No adjustment Constant ope Nominal targ	Ianeuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00 Net Cycle Tin	ne (load, dump, r h and up 0.00 ble 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership Operation Dump Target	.): Material 3/4" Conveyor or No adjustment Constant ope Nominal targ	faneuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04 get 0.00	ne (load, dump, r h and up 0.00 ble 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	.tes
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership Operation	.): s - Unadjusted Ba s - Material 3/4" Conveyor or No adjustmen Constant ope	faneuver: NA asic Loader Cycle Tir ' to 6'' diameter 0.00 dozer piled 10 ft. hig nt - factor not applica ration -0.04	ne (load, dump, 1 h and up 0.00 ble 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile Truck Ownership	.): N s - Unadjusted Ba s - Material 3/4" Conveyor or No adjustmen	Ianeuver: <u>NA</u> asic Loader Cycle Tir ' to 6'' diameter 0.00 dozer piled 10 ft. hig nt - factor not applica	ne (load, dump, 1 h and up 0.00 ble 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material Stockpile	.): Material 3/4" Conveyor or	Ianeuver: <u>NA</u> asic Loader Cycle Tir ' to 6'' diameter 0.00 dozer piled 10 ft. hig	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .525 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min Load: NA Wheel and Track Loader Cycle Time Factors Material	.): N s - Unadjusted Ba s : Material 3/4"	Ianeuver: NA asic Loader Cycle Tir ' to 6" diameter 0.00	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .525 minu Source (Cat HB)	tes
Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loader Cycle Time Factors	.): M s - Unadjusted Ba	faneuver: NA asic Loader Cycle Tir	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)) .525 minu Source	ıtes
Cycle Time Elements (min Load: <u>NA</u> Wheel and Track Loader	.): N s - Unadjusted Ba	Ianeuver: <u>NA</u> asic Loader Cycle Tir	me (load, dump, 1	Dump: 0.100)	ites
Cycle Time Elements (min Load: <u>NA</u>	.): M	faneuver: NA		Dump:0.100)	
Cycle Time Elements (min	.):					
TTACK LOADERS						
Treal Londora	- Material Descr	ription:				
Selected Valu	e within this Basi	c Rating: NA				
Machine Cycle Time	vs. Job Conditio	n Rating: NA				
Excavators and Front Show	vels:					
Loading Tool Cycle Time	e: Number	r of Loading Tool Pa	sses Required to	Fill Truck:	<u> 3 p</u>	asses
Net Correction:	0.830	0.830				
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Altitude Adj:	1.000	1.000	(CAT HE	3)		
	Truck	Loader	Source			
Job Condition Correction	<u>IS:</u>	Si	te Altitude (ft.):	<u>5400</u> feet		
Adjusted Capacity	6.160	LCY	(100	120/07 1.100		
Rated Capacity: Bucket Fill Factor	5.600	LCY (heaped)	t mixtures (100	-120%) 1 100		
			Buck	ket Size Class: <u>N</u>	A	_
Loading Tool Capacity						
F1n	al Truck Volume	Based on Number of	f Loader Passes:	18.48		
	1			40.40		
	22.10	LCY				
Adjusted volume:	00.10	LCY				
Average Volume: Adjusted Volume:	19.60	Lei				
Heaped Volume: Average Volume: Adjusted Volume:	22.10 19.60	LCY				

Haul Route:

Seg #	Haul D	istance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Fl)			(%)	(%)	(ipiii)	(min)	
1	2700.00)	-5.00	5.00	0.00	3080	1.144	
Poturn Po	uto.				Haul Time:	1.144	minutes	
Seg #	Haul D	istance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	2700.00)	5.00	5.00	10.00	1561	1.794	
					Return Time:	1.794	minut	es
				Total True	ck Cycle Time:	5.608	minute	es
Loading Tool Produc	unit ction	663.95	LCY/Hour		Adjusted for j	ob efficiency:	551.08	LCY/Hour
Truck Unit Produc	ction	197.72	LCY/Hour		Adjusted for j	ob efficiency:	164.11	LCY/Hour
Optimal No. of Tru	icks:	3	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly trucl	k team production	on: 328	.21 LC	Y/Hour
			Adjusted sing	le truck/loade	r team production	on: 328	.21 LC	Y/Hour
			Adjusted multip	le truck/loade	r team production	on: 656	<u>.42</u> LC	Y/Hour
JOB TIM	IE ANI	D COST						
Fleet s	ize:	2	Team(s)	Т	Total job time:	29.8	6 H	ours
Unit c	ost:	\$2.379	/LCY	- -	Fotal job cost:	\$46,6	40	

	Spread tops	soil on pit floor			
Woodring Pit		Permit Action:	SI-5	Permit/Job#:	M1978323
PROJECT IDENT	IFICATION				
Task # 06B	s	tate: Colorado		Abbreviation:	None
Date: $11/20/2$	023 Cou	ntv: Mesa		Filename:	M323-06b
User: ACY	<u> </u>			· · · · · ·	
Agency or o	rganization name:	DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal				
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
		***	<u>Utilization %</u>		
Ownership Cost/Hou	ır:	\$238.76	NA		
Operating Cost/Hou	1r:	\$162.29	100 NA		
Ripper own. Cost/Hou Pinner on Cost/Hou	ur:	\$0.00	NA 0		
Operator Cost/Hot	,II	\$0.00			
Operator Cost/Hot		\$40.04	NA		
Total unit Cost/Hour:	\$441.09				
Total Fleet Cost/Hour	·· \$1 764 34				
MATERIAL QUA					
Initial Volume: <u>1</u> Swell factor: <u>1</u>	9,602				
Initial Volume: <u>1</u> Swell factor: <u>1</u> Loose volume: 1	9,602 .000 9,602 LCY				
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v	9,602 .000 9,602 LCY olume: Div	ision of Reclamati	on, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sy	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u>	ision of Reclamati Handbook	on, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sv	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u>	ision of Reclamati Handbook	on, Mining & Safety		
Initial Volume: <u>1</u> Swell factor: <u>1</u> Loose volume: <u>1</u> Source of estimated v Source of estimated sy <u>HOURLY PRODU</u>	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> J <u>CTION</u>	ision of Reclamati Handbook	on, Mining & Safety		
Initial Volume: <u>1</u> Swell factor: <u>1</u> Loose volume: <u>1</u> Source of estimated v Source of estimated sy <u>HOURLY PRODU</u> Average push distance	9,602 .000 9,602 LCY olume: Div well factor: Cat JCTION e: 0 feet	ision of Reclamati Handbook	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> J <u>CTION</u> e: <u>0 feet</u> oduction: <u>2,110</u>	ision of Reclamati Handbook 5 LCY/hr	on, Mining & Safety		
Initial Volume: <u>1</u> Swell factor: <u>1</u> Loose volume: <u>1</u> Source of estimated vo Source of estimated so HOURLY PRODU Average push distance Unadjusted hourly pro	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> <u>JCTION</u> e: <u>0 feet</u> oduction: <u>2,110</u> description: <u>L</u>	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety 		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude:	9,602 .000 9,602 LCY olume: well factor: <u>DCTION</u> e:0 feet oduction: description: t:0 % 5,400 feet	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight:	9,602 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .0000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description:	9,602 .000 9,602 LCY olume: Div well factor: Cat JCTION e: 0 feet oduction: 2,110 description: L t: 0 % 5,400 feet 1,600 lbs/LC Top Soil	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> <u>JCTION</u> e: <u>0 feet</u> oduction: <u>2,110</u> description: <u>L</u> t: <u>0 %</u> <u>5,400 feet</u> <u>1,600 lbs/LC</u> <u>Top Soil</u> tion Factor	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated v Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera	9,602 .000 9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> <u>JCTION</u> e: <u>0 feet</u> oduction: <u>2,110</u> description: <u>L</u> t: <u>0 %</u> <u>5,400 feet</u> <u>1,600 lbs/LC</u> <u>Top Soil</u> tion Factor tor Skill:	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con	9,602 .000 .000 .9,602 LCY olume: <u>Div</u> well factor: <u>Cat</u> J <u>CTION</u> e: <u>0 feet</u> oduction: <u>2,110</u> description: <u>L</u> t: <u>0 %</u> <u>5,400 feet</u> <u>1,600 lbs/LC</u> <u>Top Soil</u> tion Factor tor Skill: sistency:	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2 Y 0.750 1.200	ion, Mining & Safety		
Initial Volume: 1 Swell factor: 1 Loose volume: 1 Source of estimated v Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con Dozing	9,602 .000 9,602 LCY olume: Div well factor: Cat <u>JCTION</u> e: 0 feet oduction: 2,110 description: L t: 0 % 5,400 feet 1,600 lbs/LC Top Soil tion Factor tor Skill: sistency: method:	ision of Reclamati Handbook 5 LCY/hr oose stockpile 1.2 Y 0.750 1.200 1.000	ion, Mining & Safety		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8593	
Adjusted unit production:	1,813.55 LCY/hr	
Adjusted fleet production:	7254.2 LCY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$0.243/LCY

Total job time:	2.70 Hours
Total job cost:	\$4,768

REVEGETATION WORK

Task descri	ption:	Revegetate affected lands			
Site: Woodrin	ng Pit	Permit Action:	SI-5	Permit/Jol	o#: <u>M1978323</u>
PROJECT	IDENTIFIC	ATION			
Task #:	07A	State: Colorado		Abbreviation:	None
Date:	11/20/2023	County: Mesa		Filename:	M323-07a
User:	ACY				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.50	\$49.67
			Total Fertilizer Materials Cost/Acre	\$49.67

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

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
Crested Wheatgrass - Ephraim	2.40	11.02	\$10.38
Sand Dropseed	0.20	23.88	\$1.95
Burnett, Small (or Little) - Delar	8.00	10.10	\$20.00
Pubescent Wheatgrass - Luna	5.60	11.57	\$19.04
Galleta	4.80	17.52	\$107.28
Rabbitbrush, Rubber	0.24	3.58	\$15.43
Saltbush, Four Wing	2.00	2.75	\$25.00
Totals Seed Mix	23.24	80.42	\$199.08

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$429.79	\$429.79
Total Mulch Materials Cost/Acre				\$433.79

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$284.85

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

	No. of Acres:	28.26	Cost /Acre:	\$1,389.25
Estimate	ed Failure Rate:	40%	Cost /Acre*:	\$1,389.25
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LING,SEEDING,MU	
		LCHING		
Initial Job Cost:	\$39,260.21			
Reseeding Job Cost:	\$15,704.08			
Total Job Cost:	\$54,964			
Job Hours:	40.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

-		ual Modifization					
Woodring Pit		Permit	Action: <u>SI-5</u>		1	Permit/Job#: <u>M</u>	1978323
PROJECT IDE	ENTIFICATI	<u>ION</u>					
Task #: 10	A	State: Co	olorado		Abbre	eviation: None	
Date: 11 User: A	/20/2023 CY	County: Me	esa		Fi	ilename: M323	-10a
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
					Shift ba	usis: 1 per da	y
					Cost Data Sour	rce: CRG Da	ta
Truc	k Tractor Desc	cription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	OR, 6X4, DIESEL	POWERED,
_				400 HF	P (2ND HALF,	2006)	
Tru	ck Trailer Desc	cription: G	ENERIC FOLD	OING GOO	DSENECK, DF	ROP DECK EQUI	IPMENT
				IKAILEK	. (251. 501. Af	ND 1001)	
					(-))	,	
Cost Breakdown:						,	
Cost Breakdown: Available Rig (Capacities	0-25 Tons	26-50 Tons	51	+ Tons		
Cost Breakdown: Available Rig (Ownershi	C apacities p Cost/Hour:	0-25 Tons \$20.26	26-50 Tons \$36.04	51 \$	+ Tons 47.05	, ,	
Cost Breakdown: Available Rig (Ownershi Operatin	C apacities p Cost/Hour: g Cost/Hour:	0-25 Tons \$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	51 \$ \$	+ Tons 47.05 82.85	,,	
<u>Cost Breakdown:</u> Available Rig (Ownershi Operatin Operato	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	51 \$ \$ \$	+ Tons 47.05 82.85 22.52	,,	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	51 \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53	, ,	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpo Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	51 \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , _, ,, ,, ,, ,, ,, ,, ,, ,, ,, , _, ,, ,, ,, ,, ,, , _, ,, ,, ,, ,, ,, , _, ,, ,, ,, ,, ,, , _, ,, ,, ,, , _, ,, ,, , _, ,, ,, , _, ,, ,, , _, ,, ,, , ,, , ,, , ,, , ,, , , , , , ,, , , ,	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	51 \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , ,, ,, ,, , ,, ,, , ,, , ,, , ,, , ,, , , , , , , , , , , , , , , , , , , ,	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	51 \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95		
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpo Total Un NON ROADAL Machine	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	51 \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip	Return Trip	DOT Permit
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAL Machine Description	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpo Total Un NON ROADAI Machine Description Cat D9T - 9SU	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$257.08	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet \$1,732.12	Return Trip Cost/hr/ fleet \$703.80	DOT Permit Cost/ fleet \$250.00
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpo Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 730	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: tr Cost/Hour: d Cost/Hour: BLE EQUIPM Weight/ Unit (TONS) 66.13 25.19	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$257.08 \$108.06	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$82.29	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet \$1,732.12 \$761.40	Return Trip Cost/hr/ fleet \$703.80 \$329.16	DOT Permit Cost/ fleet \$250.00 \$250.00
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 730 CAT 972H	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: r Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 25.19 28.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$257.08 \$108.06 \$57.78	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$82.29 \$158.17	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet \$1,732.12 \$761.40 \$431.90	Return Trip Cost/hr/ fleet \$703.80 \$329.16 \$316.34	DOT Permit Cost/ fleet \$250.00 \$250.00 \$500.00
Cost Breakdown: Available Rig (Ownershi Operatin Operator Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 730 CAT 972H Drill/Broadcast Seeder with Tractor	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 25.19 28.00 25.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$257.08 \$108.06 \$57.78 \$6.73	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$82.29 \$158.17 \$82.29	51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ <t< td=""><td>+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet \$1,732.12 \$761.40 \$431.90 \$89.02</td><td>Return Trip Cost/hr/ fleet \$703.80 \$329.16 \$316.34 \$82.29</td><td>DOT Permit Cost/ fleet \$250.00 \$250.00 \$500.00 \$250.00</td></t<>	+ Tons 47.05 82.85 22.52 23.53 175.95 Haul Trip Cost/hr/ fleet \$1,732.12 \$761.40 \$431.90 \$89.02	Return Trip Cost/hr/ fleet \$703.80 \$329.16 \$316.34 \$82.29	DOT Permit Cost/ fleet \$250.00 \$250.00 \$500.00 \$250.00

Subtotals: \$3,122.67 \$1,513.88 \$1,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$92.68	1	\$92.68	\$92.68
Light Duty Pickup, 4x4, 3/4 T.	\$116.86	2	\$233.72	\$233.72
		Subtotals:	\$326.40	\$326.40

Subtotals: **\$326.40** \$326.40

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION,	
	CO	
Total one-way travel distance:	35.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$17,359.30	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$571.20	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.88	0.88
Return Time (Hours):	0.88	0.88
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.75	1.75

Total job time:	5.50	Hours
Total job cost:	\$17,930	_

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Woodring Pit		Permit	Action: <u>SI-5</u>			Permit/Job#:	M1978323
PROJECT IDE	NTIFICATI	ON					
Task #: 10E	3	State: Co	olorado		Abbro	eviation: No	one
Date: 11/2 User: AC	20/2023 Y	County: M	esa		Fi	ilename: M	323-10B
Agency of	or organization	n name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
				(Shift ba Cost Data Sou	isis: <u>1 per</u> rce: <u>CRG</u>	r day Data
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU 400 HP	JCK TRACTO (2ND HALF,	OR, 6X4, DIES 2006)	SEL POWERED,
Truck	x Trailer Desc	ription: G	ENERIC FOLD	DING GOC ΓRAILER	SENECK, DF (25T, 50T, A)	ROP DECK E0 ND 100T)	QUIPMENT
Trucl cost Breakdown:	c Trailer Desc	ription: G	ENERIC FOLD	DING GOC FRAILER	DSENECK, DF (25T, 50T, AN	ROP DECK E(ND 100T)	QUIPMENT
Truch ost Breakdown: Available Rig Ca	< Trailer Desc apacities	ription: G	ENERIC FOLD	DING GOC FRAILER 51+	DSENECK, DF (25T, 50T, AN + Tons	ROP DECK E(ND 100T)	QUIPMENT
Truch ost Breakdown: Available Rig Ca Ownership	apacities	o-25 Tons \$20.26	ENERIC FOLD	DING GOC TRAILER 51+	DSENECK, DF (25T, 50T, AN + Tons 47.05	ROP DECK E(ND 100T)	QUIPMENT
Truch ost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour:	o-25 Tons \$20.26 \$39.51	ENERIC FOLD	51+ 51+ \$2 \$8	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85	ROP DECK E(ND 100T)	QUIPMENT
Truck <u>cost Breakdown:</u> Available Rig Ca Ownership Operating Operatory U	apacities Cost/Hour: Cost/Hour: Cost/Hour:	o-25 Tons \$20.26 \$39.51 \$22.52	ENERIC FOLD	DING GOC <u>FRAILER</u> 51-1 \$4 \$4 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	DSENECK, DF (25T, 50T, A) Tons 47.05 32.85 22.52 22.52	ROP DECK E(ND 100T)	QUIPMENT
Truck <u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158 17	DING GOC <u>FRAILER</u> 51+ 52- 52- 52- 52- 52- 52- 52- 52-	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.05	ROP DECK E(ND 100T)	QUIPMENT
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	ENERIC FOLD 7 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	DING GOC <u>FRAILER</u> 51-1 \$4 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	DSENECK, DF (25T, 50T, A) + Tons 47.05 32.85 22.52 23.53 75.95	ROP DECK E(ND 100T)	QUIPMENT
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit ION ROADAB	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	ENERIC FOLD 7 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	DING GOC <u>FRAILER</u> 51+ \$4 \$4 \$2 \$2 \$2 \$2 \$1	DSENECK, DF (25T, 50T, A) Tons 47.05 82.85 22.52 23.53 75.95	ROP DECK E(ND 100T)	QUIPMENT
Truck ost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: C	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	DING GOC <u>FRAILER</u> 51+ 51+ 54 52 52 52 52 52 52 52 52 52 52 52 52 52	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip	ROP DECK EG ND 100T)	QUIPMENT
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit CON ROADAB Machine Description	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	ENERIC FOLD 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	Fleet Size	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	ROP DECK EG ND 100T) Return Trip Cost/hr/ flee	QUIPMENT DOT Permit cost/ fleet
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Drill/Broadcast Seeder with Tractor	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 25.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$6.73	ENERIC FOLD 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$82.29	Fleet Size	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$89.02	ROP DECK E(ND 100T) Return Trip Cost/hr/ flee \$82.29	QUIPMENT DOT Permit Cost/ fleet \$250.00
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90)	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 25.00 6.00	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$6.73 \$25.94	ENERIC FOLD 26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$82.29 \$82.29	Size 1 1	DSENECK, DF (25T, 50T, AN + Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$89.02 \$108.23	ROP DECK EG ND 100T) Return Trip Cost/hr/ flee \$82.29 \$82.29	QUIPMENT DOT Permit Cost/ fleet \$250.00 \$250.00

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.	\$116.86	2	\$233.72	\$233.72
		Subtotals:	\$233.72	\$233.72

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION,	
	СО	
Total one-way travel distance:	35.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,027.70 \$409.01	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.88	0.88
Return Time (Hours):	0.88	0.88
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.75	1.75

JOB TIME AND COST

Total job time:	5.50	Hours

Total job cost: \$2,437