

August 22, 2025

Bryan K. Jorgensen Kilgore Companies LLC dba Elam Construction 7057 West 2100 South Salt Lake City, UT 84128

Re: C Road Pit - File No. M-2016-050
Kilgore Companies LLC dba Elam Construction
Surety Increase (SI-1)
Post Inspection Surety Increase

Dear Bryan K. Jorgensen:

On August 22, 2025 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$582,938.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$231,938.00.

Post Inspection Surety Increase. Includes inflationary increase from 2020-2025 and changes on site.

Please see the July 16, 2025 inspection report for details regarding why this surety increase is required.

On August 22, 2025, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by October 21, 2025.

Bond Held:	\$351,000.00
Prior Liability:	\$351,000.00
Change in Liability:	\$231,938.00



Revised Liability:	\$582,938.00
Prior Permit Acreage:	84.90
Change in Permit Acreage:	0.00
Revised Permit Acreage:	84.90
Prior Affected Acreage:	40.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	40.00

If you have any questions, please contact me by telephone at $(970)\ 210\text{-}1272$, or by email at Amy.yeldell@state.co.us.

Sincerely,

Amy C. Yeldell

Amy Geldell

Environmental Protection Specialist

M-GR-04



August 6, 2025

Bryan Jorgensen Kilgore Companies LLC dba Elan Construction 7057 West 2100 South Salt Lake City, UT 84128

RE: C Road Pit, Permit No. M-2016-050, Proposed Surety Increase (SI-1)

Dear Mr. Jorgensen:

This reclamation cost update was in response to the site inspection conducted on July 16, 2025. 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 increased under TR-1 in 2020. Below is a table summarizing input values. Values that have been updated are noted in Red. 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.

Assumptions:

- Pit slopes will be regarded to 3H: 1V, topsoiled with 3" and broadcast seeded with dryland mix
- Pit floor will have 18" of overburden placed, and 3" of topsoil placed to be "crop-ready"
- No structures are to remain

Task	Form Used	Description	
01a	Demo	Remove scale house	
02a	Dozer	Phase 1 - Regrade pit slopes to 3H: 1V- backfill 1H: 1V at 30', 800 LF = 26,667 CY	
		Push up with dozer	



	1	
02b	Dozer	Cut/fill grading to 3H: 1V stockpile area 500 LF vet @ 40'H = 10,741 CY
02c	Scraper	Place topsoil above slopes 1800 LF x 120' = 4.96 ac @3" =2,000 CY 900LF move w/ scraper
02 b	Dozer	Phase 1 - Apply topsoil to pit slopes, with remaining visual berms 800 LF x 120' = 2.2 ac 2.2 ac @ 3" = 887 CY
02 c	Reveg	Phase 1 - Reveg pit slopes w/ dryland mix 4.96 ac (Exhibit L) Updated failure rate to 50% (standard for GJ area)
03a	Scraper Truck	Phase 1 - Apply overburden to pit floor 15 ac @18" = 36,300 CY 500LF move w/ truck & loader then spread w/ dozer
03b	Ripper	Phase 1- Decompact pit floor 15 ac
03c	Scraper Truck	Phase 1- Apply topsoil to pit floor 15 ac @3" = 6,050 CY 500LF move w/ truck & loader then spread w/ dozer
04a	Truck	Phase – 2 Transport and place backfill material for North highwall 1000 LF near vert @ 30'H to a 3H: 1V = 49,833 CY 1000LF haul
04b	Dozer	Phase 2 – Cut/fill grade south and west highwalls 1800 LF near vert @ 30'H to a 3H: 1V = 22,425 CY
04c	Truck	Phase 2 – Transport and apply topsoil for highwall slopes 2800 LF x 120' = 7.71 ac @ 3" = 3110 500LF haul
04d	Reveg	Phase 2 - Reveg pit slopes w/ dryland mix 7.71 ac Updated failure rate to 50% (standard for GJ area)

05a	Scraper Truck	Phase 2 - Apply overburden to pit floor 18.29 ac @18" = 44,261 CY 600LF move w/ truck & loader then spread w/ dozer
05b	Ripper	Phase 2 - Decompact pit floor 18.29 ac
05c	Scraper Truck	Phase 2- Apply topsoil to pit floor 18.29 ac @ 3" = 7,377 CY 600LF move w/ truck & loader then spread w/ dozer
10a	Mob	Initial Mobilization Remove scrapper, add 3x 730 Truck and 972 Loader
10 b	Mob	Secondary Mobilization
Indirect		Engineering and bid prep required on all projects

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 **Friday**, **August 29**, **2025** then I'll issue SI-1 the following Monday. SI-1 will result in a total required bond amount of **\$582,938**, which is <u>an increase of \$231,938</u> over the \$351,000 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, $1001 \to 62^{nd}$ Ave, Denver CO 80216. Direct contact can be made by phone at 970-210-1272 or via email at amy yeldell@ state.co.us

Sincerely,

Amy Yeldell

Environmental Protection Specialist

Amy Geldell

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

te: C Road Pit		Permit Action: 2025	Permit/Job#: <u>M2016050</u>
PROJECT	IDENTIFICA'	<u>TION</u>	
Task #:	ACY	State: Colorado	Abbreviation: None
Date:	8/6/2025	County: Mesa	Filename: M050-ACY
User:	ACY		

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Removal of structures	DEMOLISH	1	4.00	\$116
02a	Phase 1 - Regrade pit slopes to 3H: 1V- backfill	DOZER	2	151.08	\$99,562
02b	Phase 1 - Apply topsoil to pit slopes, with remaining visual	DOZER	1	1.25	\$434
02c	Phase 1 - Reveg pit slopes w/ dryland mix	REVEGE	1	8.00	\$3,869
03a	Phase 1 - Apply overburden to pit floor	TRUCK1	1	72.88	\$68,756
03b	Phase 1- Decompact pit floor	RIPPER	2	12.07	\$8,547
03c	Phase 1 - Apply topsoil to pit floor	TRUCK1	1	13.92	\$13,135
04a	Phase – 2 Transport and place backfill for North highwall	TRUCK1	1	93.56	\$108,144
04b	Phase 2 – Cut/fill grade south and west highwalls	DOZER	2	23.66	\$16,529
04c	Phase 2 – Transport and apply topsoil for highwall slopes	TRUCK1	1	7.16	\$6,732
04d	Phase 2 - Reveg pit slopes w/ dryland mix	REVEGE	1	12.00	\$6,013
05a	Phase 2 - Apply overburden to pit floor	TRUCK1	1	92.07	\$86,613
05b	Phase 2 - Decompact pit floor	RIPPER	2	14.72	\$10,421
05c	Phase 2 - Apply topsoil to pit floor	TRUCK1	1	17.59	\$16,595
10a	Initial Mobilization	MOBILIZE	1	3.00	\$7,532
10b	Secondary Mobilization	MOBILIZE	1	3.00	\$894
		529.96	\$453,892		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$9,169
Performance bond:	1.05	Total =	\$4,766
Job superintendent:	264.98	Total =	\$19,908
Profit:	10.00	Total =	\$45,389

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$22,658
Reclamation management and/or administration:	5.00		\$26,656

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$129,046

TOTAL BOND AMOUNT (direct + indirect) = \$_\$582,938

DEMOLITION WORK

l ask description	n: Remov	val of structures				
Site: C Road Pit	C Road Pit Permit Action: 2025 Permit/Job#: M2016050					M2016050
PROJECT IDENTII	FICATION					
Task #: 01A State: Colorado Date: 8/6/2025 County: Mesa User: ACY				Abbreviat Filena	-	
Agency	or organization nam	e: DRMS				
<u>UNIT COSTS</u>				Location	adjustment	<u>: 90.70 %</u>
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	8' x 8' x 8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	512.00	CF	\$0.25	\$128.31
Job Hours:	4.00	Subtotal (unadjusted): \$1	28.31	(adjı	otal Cost isted for ocation):	\$116.38

BULLDOZER WORK

Task description:	Phase	e 1 - Regrad	le pit slopes	to 3H: 1V- bac	kfill		
: C Road Pit		Peri	mit Action:	2025		Permit/Job#:	M2016050
PROJECT IDEN	NTIFICATION	<u>ON</u>					
Task #: 02A Date: 8/6/2	025	State: County:	Colorado Mesa			Abbreviation: Filename:	None M050-02a
	r organization:	nama: DE	RMS				
HOURLY EQU			avis				
Basic Machine:	Cat D8T - 8	<u></u>					
Horsepower:	310						
Blade Type:	Semi-Unive	rsal		<u></u>			
Attachment: Shift Basis:	NA 1 per day						
Data Source:	(CRG)			<u> </u>			
Cost Breakdown:				TT: "1"	• 0/		
Ownership Cost/I	Jane		\$179.60	<u>Utilizati</u> NA			
Operating Cost/F			\$110.45	100		_	
Ripper own. Cost/I			\$0.00	NA NA		<u> </u>	
Ripper op. Cost/I			\$0.00	0	-	<u>—</u>	
Operator Cost/I	· · · · · · · · · · · · · · · · · · ·		\$39.46	NA	A		
MATERIAL QU Initial Volume: Swell factor:	26,667 1.090						
Loose volume:	29,067 LCY		_				
Source of estimated Source of estimated		1H: 1V at Cat Hand	t 30', 800 L book	<u> </u>			
HOURLY PRO	<u>DUCTION</u>						
Average push dista Unadjusted hourly		120 feet 751.6 LCY/	'hr				
Materials consisten	cy description	Compa	cted fill or e	mbankment 0.9			
Average push grad Average site altitud		feet					
Material weight:	_ 2,400	lbs/LCY					
Weight description	: Clay a	nd gravel - l	Dry				
Job Condition Corr	rection Factor erator Skill:	0	750		Source AVG.)		
	onsistency:		900		AT HB))		
	ng method:		000		GEN.)		
	Visibility:		000		AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)
	:	

Page 2 of 2

Net correction: 0.1280

Adjusted unit production: 96.20 LCY/hr
Adjusted fleet production: 192.4 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$3.425/LCY

Total job time: 151.08 Hours
Total job cost: \$99,562

BULLDOZER WORK

C Road Pit	Permit Action:	2025	Permit/Job#:	M2016050
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 02B	State: Colorado		Abbreviation:	None
Date: 8/6/2025	County: Mesa		Filename:	M050-02b
User: ACY			i memanie.	141030 020
Agency or organi	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
	D8T - 8SU			
Horsepower: 310				
- 1 <u> </u>	i-Universal			
	ank ripper			
	r day			
Data Source: (CR	IJ)	<u></u>		
Cost Breakdown:		TT4:1'- 4' 07		
Ownership Cost/Hour:	\$179.60	<u>Utilization %</u> NA		
Operating Cost/Hour:	\$179.60	100		
Ripper own. Cost/Hour:	\$15.28	NA		
Ripper op. Cost/Hour:	\$2.74	30		
Operator Cost/Hour:	\$39.46	NA NA		
-		1.71		
Total unit Cost/Hour:	\$347.53			
Total Fleet Cost/Hour:	\$347.53	<u></u>		
MATERIAL QUANTI	TIES			
	<u> </u>			
Initial Volume: 887				
Swell factor: 1.000				
Loose volume: 887 L				
Source of estimated volum	· · · · · · · · · · · · · · · · · · ·	ac @ 3" = 887 CY		
Source of estimated swell	factor: Cat Handbook			
HOUDI WAR CRUCE	IOM			
HOURLY PRODUCT	<u>IUN</u>			
Average push distance:	120 feet			
Unadjusted hourly product	ion: 751.6 LCY/hr			
Materials consistency desc	ription: Partly consolidated	l stockpile 1.1		
Arranga mush and diene.	20.9/			
Average push gradient: Average site altitude:	-30 % 4,700 feet			
Average site attitude:	4,700 ICCI			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
Job Condition Correction 1	Factor_	Source		
Operator S	kill: 0.750	(AVG.)		
Material consister		(CAT HB)		
Dozing metl		(GEN.)		
Visibi	lity: 1.000	(AVG.)	=	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9459

Adjusted unit production: 710.94 LCY/hr
Adjusted fleet production: 710.94 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.489/LCY

Total job time: 1.25 Hours
Total job cost: \$434

REVEGETATION WORK

Task #: 02C State: Colorado Date: 8/6/2025 County: Mesa User: ACY Agency or organization name: DRMS TILIZING rials escription Tot LING escription Tot DING DING Place Mix	Unit	Co \$ To	bbreviation: Filename: ost / Unit otal Fertilizer Materials Cost/Acre	Cost /Acre \$
Date: 8/6/2025 County: Mesa User: ACY Agency or organization name: DRMS TILIZING rials escription Units / Acre Tot LING escription Tot DING		Co \$ To	Filename: ost / Unit otal Fertilizer Materials Cost/Acre	Cost /Acre \$ \$ \$0.00
Date: 8/6/2025 County: Mesa User: ACY Agency or organization name: DRMS TILIZING rials escription Units / Acre Tot LING escription Tot DING		Co \$ To	Filename: ost / Unit otal Fertilizer Materials Cost/Acre	Cost /Acre \$ \$ \$0.00
Agency or organization name: DRMS TILIZING rials escription Tot LING escription Sescription Tot DING DING		\$ To	ost / Unit otal Fertilizer Materials Cost/Acre	Cost /Acre \$ \$ \$ \$ \$0.00 Cost /Acre \$
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Exeription LING escription isc harrowing, 6" deep (MEANS 32 91 13.23 6100) DING	l Fertilizer A	Applicati		Cost /Acre
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isc harrowing, 6" deep (MEANS 32 91 13.23 6100) DING				
isc harrowing, 6" deep (MEANS 32 91 13.23 6100) DING				Cost /Acre
<u>DING</u>				\$114.13
				-
	To	otal Tilli	ing Cost/Acre	\$114.13
eed Mix				
eed Mix]	Rate –		
	1	PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
dian Ricegrass - Paloma		1.13	3.66	\$23.76
and Dropseed		0.13	15.52	\$1.73
rested Wheatgrass - Standard		1.25	5.74	\$6.89
alleta	1		5.48	\$85.14
Vestern Wheatgrass - Native		1.50		\$9.22
estern training runs runtite		1.50	2.53	D7 //

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$279.08
	Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

 No. of Acres:
 4.96
 Cost /Acres:
 \$519.96

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$519.96

*Selected Replanting Work Items: __TILLING,SEEDING

Initial Job Cost: \$2,579.00

Reseeding Job Cost: \$1,289.50

Total Job Cost: \$3,869

Job Hours: 8.00

TRUCK/LOADER TEAM WORK

Γask description:	Phase 1	- Apply overbure	den to pit floor			
C Road Pit		Permit Actio	on: 2025	·	Permit/Job#: N	M2016050
PROJECT IDEN	TIFICATION					
	<u> </u>	•	do	Δh	breviation: N	one
	025		ido			1050-03a
User: ACY		<u> </u>				
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: 1 per day	
-	Funda I andar Tan			ption		
	Truck Loader Tea					
Supp		oad Area: NA				
D 134			D8T - 8SU			
Road M						
		1111				
Cost Breakdown:						nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
ization-machine:	100	100	NA	100	NA	NA
ership cost/hour:	\$118.61	\$65.96	NA	\$179.60	NA	NA
erating cost/hour:	\$69.32	\$60.89	NA	\$110.45	NA	NA
Utilization-riper:	NA	0	NA	30	NA	NA
	NA	\$0.00	NA			
			NA		NA	
		· ·	NA			
		\$186.37	NA	\$332.25		
Group Subtotals:	Work:	\$611.23	Support:	\$332.25	Maint:	\$0.00
Гotal work team co	st/hour: \$943.48	<u> </u>				
<u>MATERIAL QU</u>	ANTITIES					
		CCY	Swell	factor: 1.060		
Loose volume	: 38,47	8 LCY				
				CY		
Source						
	10	παι Cost	·			
HOURLY PRO	DUCTION					
Fruck Canacity:						
	ght) Basis:					
Material v	weight: 2,900		Pounds/LCY			
			D 1			
			Pounds LCY			
	C Road Pit PROJECT IDEN Task #: 03A Date: 8/6/20 User: ACY Agency or HOURLY EQUI Supp Road M Cost Breakdown: ization-machine: ership cost/hour: erating cost/hour: utilization-riper: r own. cost/hour: ber op. cost/hour: Unit Subtotals: Number of Units: Group Subtotals: Total work team co MATERIAL QU Initial volume Loose volume So Source HOURLY PRO Fruck Capacity: Truck Payload (wei Material volume Description of Control of Control Material volume Loose Rated Payload (wei Material volume Material volume Loose Rated Payload (wei Material volume Material volu	Task #: 03A Date: 8/6/2025	PROJECT IDENTIFICATION	PROJECT IDENTIFICATION	PROJECT IDENTIFICATION	Permit Action: 2025 Permit/Job#: Permit/Job

T1- D1 (1						
Truck Bed (volume) Basis: Struck Volume:	17.10 I	LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:		LCY				
, <u> </u>		Based on Number of	I oader Passes:	18.48	LCY	
Loading Tool Capacity	Truck Volume	Based on I valided of	Louder 1 asses.	10.10	ECT	
Loading 1001 Capacity			Buck	ket Size Class: N	ĪΑ	<u> </u>
Rated Capacity:	5.600	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	-120%) 1.100		_
Adjusted Capacity:	6.160	LCY				
Job Condition Corrections	<u>:</u>	Sit	e Altitude (ft.): 4	1700 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB			
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.830				
	vs. Job Condition within this Basic Material Descrip	Rating: NA				
Cycle Time Elements (min.)	:					
Load: NA	Ma	aneuver: NA		Dump: 0.10	0	
Wheel and Track Loaders	- Unadjusted Bas	sic Loader Cycle Tim	e (load, dump, r	naneuver):	0.525 min	utes
Cycle Time Factors				Factor (min.)	Source	<u> </u>
Material:	Mixed materia			0.020	(Cat HB)	_
Stockpile:		ozer piled 10 ft. high		0.000	(Cat HB)	_
Truck Ownership:		ership of trucks and l	oaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera			-0.040	(Cat HB)	_
Dump Target:	Nominal targe	Net Cycle Time	A diustment:	-0.060	(Cat HB) minutes	_
		Adjusted Loade		0.465	minutes	
			me per Truck:	1.030	minutes	
Truck Cycle Time:						
Truck Exchange Time	e: 0.60	Minutes	Adjusted	for site altitude:	0.600	Minute
Truck Load Time	2: 1.030	Minutes	Adjusted	for site altitude:	1.030	Minute
ack Maneuver and Dump Time	2: 1.00	Minutes	Adjusted	for site altitude:	1.000	_ Minute
		_		_		_

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	1.00	5.00	6.00	1122	0.514

Haul Time: 0.514 minutes

Return Route:

Return Route.									
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)			
1	500.00	-1.00	5.00	4.00	2855	0.342			

Return Time: 0.342 minutes
Total Truck Cycle Time: 3.486 minutes

Loading Tool unit

Production 680.25 LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour

Truck Unit Production

318.07 LCY/Hour Adjusted for job efficiency: 264.00 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 528.00 LCY/Hour Adjusted single truck/loader team production: 528.00 LCY/Hour Adjusted multiple truck/loader team production: 528.00 LCY/Hour

JOB TIME AND COST

Fleet size: _____1 Team(s) Total job time: _____ Hours

Unit cost: \$1.787 /LCY Total job cost: \$68,756

BULLDOZER RIPPING WORK

	Task description:	Pha	se 1- Decompact pit floor							
Site	: C Road Pit		Permit Action:	2025	F	Permit/Job#	t: <u>M2016</u>	050		
	PROJECT ID									
	Task #: 03B State: Colorado				Abl	oreviation:	None			
		/2025	County: Mesa			Filename:	M050-03	3b		
	User: AC		, <u></u>				-	<u> </u>		
	Agency	or organization	n name: DRMS							
	HOURLY EQ	UIPMENT C	<u>OST</u>							
	Basic	Machine: Ca	t D8T - 8SU		Horsepower:		310			
		achment: 3-5			Shift Basis:		per day			
	11				Data Source:		(CRG)			
	Cost Breakdown:									
		=			Utilization %					
		Ownership C	ost/Hour:	\$179.60	NA	<u></u>				
		Operating C		\$110.45	100	_				
		er Ownership C		\$15.28	NA	_				
	Ripp	per Operating C		\$9.14	100	_				
		Operator C		\$39.46	NA	_				
		Total Unit C	ost/Hour:	\$353.93						
		Total Fleet C	ost/Hour: \$707	.86						
	MATERIAL (<u> UANTITIES</u>	Sele-	cted estimating	g method: Are	a				
	Alternate Method	<u>ls:</u>								
Seismic:	NA		Bank Volume:	NA	BCY		NA			
Area:	15.00	acres	_	2.00		48,400		BCY or CCY		
		Source of esti	mated quantity: Staff es	timates						
	HOURLY PRODUCTION									
		<u> </u>								
	Seismic:				C .//	1				
			Seismic Velocity:	NA	feet/sec	cond				
	Area:									
			ge Ripping Depth:	2.56	feet/pa					
			ge Ripping Width:	7.08	feet/pass					
			e Ripping Length:	150.00	feet/pass feet/minute					
			rage Dozer Speed:e Maneuver Time:	88.00 0.25						
		_	ction per unit area:	0.23	minutes/pass acres/hour					
	Joh Condition Co			0.740	deres/11	oui				
	Job Condition Co			0 = 40						
	Un	adjusted Hourly	y Unit Production:	0.748	Acres/l	hr				
			Site Altitude:	4,700	feet	\				
			Altitude Adj:	1.00	(CAT I					
			Job Efficiency:	0.83	(1 shift	• /				
			Net Correction:	0.83	multipl	lier				
	Adjusted Hourly Unit Production: Adjusted Hourly Fleet Production:			0.62 1.24	Acres/hr Acres/hr					
	JOB TIME AN	ND COST								
	Fleet size:	2	_ Grader(s)	Total job tin	ne:	12.07	Но	ours		
	Unit cost:	\$569.767	Per acre	Total job co	ost:	88.547				

TRUCK/LOADER TEAM WORK

Site: C Road Pit		Permit	Action	n: 2025	-	Permit/Job#:	M2016050	
						_		
PROJECT IDEN	<u>NTIFICATION</u>	[
Task #:03C			olorac	do	Ab		Vone	
Date: 8/6/20		County: N	1esa			Filename: N	M050-03c	
User: ACY								
Agency or	organization nar	ne: DRMS	S					-
HOURLY EQUI	PMENT COST	<u>r</u>			Shift bas	is: 1 per day		
			Е	quipment Descri	ption			
7	Γruck Loader Tea	-	Cat 7					-
		-Loader:		972H				≣ ∙
Supp	ort Equipment -L	Load Area: ump Area:	NA Cat I	D8T - 8SU				
Road M	Iaintenance –Mot		NA	201 000				-
		iter Truck:	NA					
Cost Breakdown:	Truck/Los Truck	ader Team Loader		Support I Load Area	Equipment Dump Area	Mainten Motor Grade	ance Equipi Water	
							•	
%Utilization-machine:	100		100	NA	100	N/		NA
Ownership cost/hour:	\$118.61	\$65		NA	\$179.60	N/		NA
Operating cost/hour:	\$69.32	\$60		NA	\$110.45	N.A		NA
%Utilization-riper:	NA	0.0	0	NA	30	NA		NA
Ripper own. cost/hour:	NA		.00	NA NA	\$15.28	N/		NA
Ripper op. cost/hour:	NA P24.50		.00	NA	\$2.74	N/		NA
Operator cost/hour:	\$24.50	\$59		NA	\$39.46	N/		NA
Unit Subtotals:	\$212.43	\$186		NA	\$332.25	N.A		NA
Number of Units:	2	Ф.C.1.1.2.2	1	0	1		0	0
Group Subtotals:	Work:	\$611.23		Support:	\$332.25	Maint	t: \$0.00	
Total work team cos	st/hour: \$943.48	3						
MATERIAL QU	ANTITIES							
Initial volume			CCY	Swell	factor: 1.215			
Loose volume	: 7,35	<u>1</u>	LCY					
So	ource of estimated	volume:	15 ac	@3" = 6,050 CY				
Source	of estimated swe			andbook				-
	Material Purch	_	\$0.00					-
	10	nai Costi <u> </u>	\$0.00					-
HOURLY PRO	DUCTION							
Truck Capacity: Truck Payload (wei	aht) Racie							
Material v				Pounds/LCY				
	ription: Top So	oil						
Rated Pa	ayload: 62,000			Pounds				

LCY

Payload Capacity: 38.75

Struck Volume:	17.10 I	LCY .				
Heaped Volume:	22.10 I	LCY .				
Average Volume:	19.60 I	LCY.				
Adjusted Volume:	22.10 I	LCY				
Fina	Truck Volume I	Based on Number of Lo	oader Passes:	18.48	LCY	
Loading Tool Capacity			-			
			Buck	et Size Class: N.	A	
Rated Capacity:	5.600	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt m	ixtures (100-	120%) 1.100		_
Adjusted Capacity:	6.160	LCY				
Job Condition Corrections	<u>:</u>	Site A	Altitude (ft.): <u>4</u>	700 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB)			
Job Efficiency:	0.830	0.830	(CAT HB)			
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Passes	s Required to F	ill Truck:	3	noggag
						passes
Excavators and Front Shove	els:	S	1			passes
Machine Cycle Time v	vs. Job Condition	Rating: NA	1			passes
Machine Cycle Time v Selected Value	vs. Job Condition within this Basic	Rating: NA NA NA				passes
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Condition within this Basic Material Descrip	Rating: NA NA NA			<u> </u>	passes
Machine Cycle Time v Selected Value	vs. Job Condition within this Basic Material Descrip	Rating: NA NA NA				passes
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Condition within this Basic Material Descrip	Rating: NA NA NA				passes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Condition within this Basic Material Descrip :	Rating: NA Rating: NA		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 Descrip :	Rating: NA Rating: NA		Dump: 0.100 aneuver): 0.	525 min	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	vs. Job Condition within this Basic Material Descrip : Ma — Unadjusted Bas	Rating: NA		Dump: 0.100		
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia	Rating: NA	(load, dump, m	Dump: 0.100 aneuver): 0. Factor (min.)	525 min Source	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d	Rating: NA Rating: NA Potion: Inneuver: NA Rating: NA	(load, dump, m	Dump: 0.100 aneuver): 0. Factor (min.) 0.020	525 min Source (Cat HB)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera	Rating: NA Rating: NA Potion: NA Include Cycle Time Rating: NA Include Cycle Time Rating: NA Rating	(load, dump, m	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 -0.040	525 min Source (Cat HB) (Cat HB)	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own	Rating: NA Rating: NA Potion: NA Include: NA Rating: NA Include: NA	(load, dump, m	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	525 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera	Rating: NA Rating: NA Potion: NA Include Cycle Time of the Action of trucks and load action -0.04 To	(load, dump, m nd up 0.00 nders -0.04	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 0.000 -0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera	Rating: NA Rating: NA Potion: Inneuver: NA Rating: NA Potion: Inneuver: NA Rating: NA	(load, dump, m nd up 0.00 nders -0.04 Adjustment:	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera	Rating: NA Rating: NA Potion: NA Include Cycle Time of the Action of trucks and load action -0.04 To	(load, dump, m nd up 0.00 nders -0.04 Adjustment:	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 0.000 -0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera	Rating: NA Rating: NA Potion: Inneuver: NA Rating: NA Potion: Inneuver: NA Rating: NA	(load, dump, m nd up 0.00 nders -0.04 Adjustment:	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
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:	ys. Job Condition within this Basic Material Descrip : Ma - Unadjusted Bas Mixed materia Conveyor or d Common own Constant opera Nominal targe	Rating: NA Rating: NA Potion: Inneuver: NA Rating: NA Potion: Inneuver: NA Rating: NA	(load, dump, m nd up 0.00 nders -0.04 Adjustment: Cycle Time:	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
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 Cycle Time:	Material Description Material Description	Rating: NA Rating: NA Potion: Inneuver: NA Rating: NA Potion: Inneuver: NA Rating: NA	(load, dump, m nd up 0.00 iders -0.04 Adjustment: Eycle Time: e per Truck: Adjusted f	Dump: 0.100 aneuver): 0. Factor (min.) 0.020 0.000 -0.040 0.000 -0.060 0.465 1.030	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes — — —

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	1.00	5.00	6.00	1122	0.514

Haul Time: 0.514 minutes Return Route: Grade (%) Total Res Travel Haul Distance Roll. Res Velocity Seg# Time (Ft) (%)(%) (fpm) (min) 500.00 -1.00 5.00 4.00 2855 0.342

Return Time: 0.342 minutes
Total Truck Cycle Time: 3.486 minutes

Loading Tool unit

Production Truck Unit Production

Truck Unit Production

318.07 LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour Adjusted for job efficiency: 264.00 LCY/Hour Optimal No. of Trucks: 2 Truck(s)

Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 528.00 LCY/Hour Adjusted single truck/loader team production: 528.00 LCY/Hour Adjusted multiple truck/loader team production: 528.00 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 13.92
 Hours

 Unit cost:
 \$1.787
 /LCY
 Total job cost:
 \$13,135

TRUCK/LOADER TEAM WORK

Site: C Road Pit		Permit Acti	on: 2025		Permit/Job#: M	2016050
PROJECT IDEN	TIFICATION					
Task #: 04A		State: Colors	ado	Ab	breviation: No	ne
Date: 8/6/20)25	County: Mesa				50-04a
User: ACY						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: 1 per day	
	Truck Loader Tea		Equipment Descri 730	ption		
1	Tuck Loader Tea		T 972H			
Supp	ort Equipment -L					
Pood M	-Draintenance –Mot	-	D8T - 8SU			
Road M		ter Truck: NA				
						 ,
Cost Breakdown:	Truck/Los	ader Team Loader	Support l Load Area	Equipment Dump Area	Maintenan Motor Grader	ce Equipment Water Truck
				•		
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$118.61	\$65.96	NA	\$179.60	NA	NA
Operating cost/hour:	\$69.32	\$60.89	NA NA	\$110.45	NA NA	NA NA
%Utilization-riper: Ripper own. cost/hour:	NA NA	\$0.00	NA NA	\$15.28	NA NA	NA NA
Ripper op. cost/hour:	NA	\$0.00	NA NA	\$2.74	NA	NA
Operator cost/hour:	\$24.50	\$59.52	NA	\$39.46	NA	NA
Unit Subtotals:	\$212.43	\$186.37	NA	\$332.25	NA	NA
Number of Units:	3	1	0	1	0	0
Group Subtotals:	Work:	\$823.66	Support:	\$332.25	Maint:	\$0.00
Total work team co	st/hour: \$1.155	91				
Total Work total oo	<u> </u>					
MATERIAL QU	ANTITIES					
Initial volume	: 49,833	CCY	Swell	factor: 1.060		
Loose volume	52,82	3 LCY				
So	urce of estimated	volume: 1000	LF near vert @ 3	0'H to a 3H: 1V =	= 49,833 CY	
Source	of estimated swe		Handbook			
	Material Purch					
	10	otal Cost: \$0.00	0			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei						
Material v		1 1 5	Pounds/LCY			
Descr		nd gravel - Dry				
Rated Pa	yload: 62,000		Pounds			

Truck Travel (Haul & Return) Time:

penetration 5.0

Truck Bed (volume) Basis						
Struck Volume:	17.10	LCY				
Heaped Volume:	22.10	LCY				
Average Volume:	19.60	LCY				
Adjusted Volume:	21.38	LCY				
Fi	nal Truck Volume	Based on Number o	of Loader Passes:	18.48	LCY	
Loading Tool Capacity			D 1	, C' - Cl - 3	TA	
Rated Capacity:	5.600	LCY (heaped)	Виск	et Size Class: N	NA	_
Bucket Fill Factor:		Other - rock/dia	rt mixtures (100-	-120%) 1.100		_
Adjusted Capacity:		LCY	(100	12070) 11100		_
Job Condition Correctio	ns:	S	ite Altitude (ft.): 4	700 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB))		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Tim	ne: Numbe	r of Loading Tool Pa	asses Required to F	Fill Truck:	3 1	passes
		er of Loading Tool Pa	asses Required to F	Fill Truck:	3 1	passes
Excavators and Front Sho	ovels:	-	asses Required to F	Fill Truck:	3 1	passes
Excavators and Front Sho Machine Cycle Tim	ovels:	on Rating: <u>NA</u>	asses Required to F	Fill Truck:	3 1	passes
Excavators and Front Sho Machine Cycle Tim Selected Valu	o <u>vels:</u> e vs. Job Conditio	on Rating: NA NA NA	asses Required to F	rill Truck:	3 1	passes
Excavators and Front Sho Machine Cycle Tim Selected Valu	ovels: e vs. Job Conditio ne within this Basi s – Material Descr	on Rating: NA NA NA	asses Required to F	Fill Truck:	3 1	passes
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders	ovels: e vs. Job Conditio ne within this Basi s – Material Descr n.):	on Rating: NA NA NA	asses Required to F	Fill Truck:		passes
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA	ovels: e vs. Job Condition e within this Basics Material Description.	on Rating: NA ic Rating: NA ription: NA		Dump: 0.10	0	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader: Cycle Time Elements (min Load: NA Wheel and Track Loade	e vs. Job Conditione within this Basins – Material Descrit.): Mars - Unadjusted Basins – Unadjusted Basins	on Rating: NA ic Rating: NA ription: NA		Dump: 0.10	0 0.525 min	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader: Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor	e vs. Job Conditione within this Basins – Material Descr 1.): Mrs - Unadjusted Basins	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin		Dump: 0.10 naneuver): (Factor (min.)	0 0.525 minu Source	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia	e vs. Job Condition this Basins – Material Descran.): Material Descran. Material Descran. Material Descran. Material Descran.	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02	me (load, dump, m	Dump: 0.10 naneuver): (Factor (min.) 0.020	0 0.525 min Source (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile	e vs. Job Condition within this Basins – Material Describin.): Material Describin. Material Describin. Material Describin. Material Describin.	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig	me (load, dump, n	Dump: 0.10 naneuver): (Factor (min.) 0.020 0.000	0 Source (Cat HB) (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership	e vs. Job Condition within this Basis – Material Describin.): Material Describination of the second	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig mership of trucks and	me (load, dump, n	Dump: 0.10 naneuver): (Factor (min.) 0.020 0.000 -0.040	0 Source (Cat HB) (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation	e vs. Job Condition within this Basis – Material Describin.): Mars - Unadjusted Basis – Conveyor or – Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and cration -0.04	me (load, dump, n	Dump: 0.10 naneuver): 0.020 0.000 -0.040 -0.040	0 Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership	e vs. Job Condition within this Basis – Material Describin.): Mars - Unadjusted Basis – Conveyor or – Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and eration -0.04 get 0.00	me (load, dump, n	Dump: 0.10 naneuver): (Factor (min.) 0.020 0.000 -0.040	0 Source (Cat HB) (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation	e vs. Job Condition within this Basis – Material Describin.): Mars - Unadjusted Basis – Conveyor or – Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig mership of trucks and cration -0.04 get 0.00 Net Cycle Tin	me (load, dump, mgh and up 0.00 l loaders -0.04	Dump: 0.10 naneuver): 0.020 0.000 -0.040 -0.040 0.000	0 Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation	e vs. Job Condition within this Basis – Material Describin.): Mars - Unadjusted Basis – Conveyor or – Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, mgh and up 0.00 l loaders -0.04 l loaders -0.04	Dump: 0.10 naneuver): (Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	0 Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation	e vs. Job Condition within this Basis – Material Describin.): Mars - Unadjusted Basis – Conveyor or – Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, m gh and up 0.00 d loaders -0.04 me Adjustment: ler Cycle Time:	Dump: 0.10 naneuver): 0.20 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	O.525 minutes minutes	
Excavators and Front Sho Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (minute Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe	e vs. Job Conditione within this Basis – Material Descrit.): Mars - Unadjusted Basis Mixed materials: Conveyor or conveyor or constant ope to Nominal targ	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, m gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.10 naneuver): 0.20 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	O.525 minutes minutes	
Excavators and Front Sho Machine Cycle Tim Selected Valu Track Loader: Cycle Time Elements (min Load: NA Wheel and Track Loade Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe	e vs. Job Conditione within this Basis = Material Descrit.): More - Unadjusted Basis = Unadjusted Basis Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Tin ial 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, me) hand up 0.00 hand up 0.04 hoaders -0.04 here. Adjustment: her Cycle Time: here. Adjusted	Dump: 0.10 naneuver): (Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030	O.525 minutes minutes minutes	utes

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	1.00	5.00	6.00	1122	0.960

Haul Time: 0.960 minutes Return Route: Grade (%) Total Res Travel Haul Distance Roll. Res Velocity Seg# Time (Ft) (%)(%) (fpm) (min) 1000.00 -1.00 5.00 4.00 2855 0.518

Return Time: 0.518 minutes
Total Truck Cycle Time: 4.108 minutes

Loading Tool unit

Production Truck Unit Production

Truck Unit Production

269.91 LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour Adjusted for job efficiency: 224.03 LCY/Hour Optimal No. of Trucks: 3 Truck(s)

Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 672.08 LCY/Hour Adjusted single truck/loader team production: 564.60 LCY/Hour Adjusted multiple truck/loader team production: 564.60 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 93.56
 Hours

 Unit cost:
 \$2.047
 /LCY
 Total job cost:
 \$108,144

BULLDOZER WORK

Task description:	Phase 2 – Cut/iii g	rade souti	and west highwalls		
: C Road Pit	Permit	t Action: _	2025	Permit/Job#:	M2016050
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 04B	State: (Colorado		Abbreviation:	None
Date: $8/6/2025$		Mesa		Filename:	M050-04b
User: ACY				-	
Agency or organ	nization name: DRM	IS			
HOURLY EQUIPME	LNI COSI				
Basic Machine: Cat	t D8T - 8SU		<u></u>		
Horsepower: 310			<u> </u>		
7 1	ni-Universal		_		
	hank ripper		_		
	er day		_		
Data Source: (CF	RG)		_		
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$179.60	NA		
Operating Cost/Hour:		\$110.45	100		
Ripper own. Cost/Hour:		\$15.28	NA		
Ripper op. Cost/Hour:	_	\$4.57	50		
Operator Cost/Hour:		\$39.46	NA		
Total unit Cost/Hour:	\$349.36				
	\$3 4 9.30				
Total Fleet Cost/Hours	\$698.72				
Total Fleet Cost/Hour:	\$698.72				
Total Fleet Cost/Hour: MATERIAL QUANT					
MATERIAL QUANT	<u> </u>				
MATERIAL QUANT Initial Volume: 22,4	TITIES 25				
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09	25 0				
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4	25 0 43 LCY				
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volume	25 0 43 LCY me:1800 LF nea		0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4	25 0 43 LCY me:1800 LF nea		0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volum Source of estimated swell	25 0 43 LCY me: 1800 LF nea Cat Handbo		0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volume	25 0 43 LCY me: 1800 LF nea Cat Handbo		0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes Source of estimated swell HOURLY PRODUCT	25 0 43 LCY me: 1800 LF nea Cat Handbo		0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance:	25 0 43 LCY me: 1800 LF nea Cat Handbo FION 120 feet	ook	0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ook		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes of estimated swell HOURLY PRODUCT Average push distance:	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ook	0'H to a 3H: 1V = 22,4	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly productions	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ook		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly productions of the production of t	25	ook		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destance: Average push gradient: Average site altitude:	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ook		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes Source of estimated swells HOURLY PRODUCT Average push distance: Unadjusted hourly production of the pro	25	ook		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destance: Average push gradient: Average site altitude:	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ed fill or en		125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destances Average push gradient: Average site altitude: Material weight: Weight description:	25 0 43 LCY 1800 LF near Cat Handbo 120 feet 751.6 LCY/hr	ed fill or en	nbankment 0.9	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destances Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	1800 LF near 1800 LF near 1800 LF near Cat Handbo	ed fill or en	nbankment 0.9	125 CY	
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destances are altitude: Material weight: Weight description: Job Condition Correction Operator	1800 LF near 1800 LF near 1800 LF near Cat Handbox	ed fill or en	nbankment 0.9 Source (AVG.)		
MATERIAL QUANT Initial Volume: 22,4 Swell factor: 1.09 Loose volume: 24,4 Source of estimated volumes 24,4 Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destances Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	1800 LF near 120 feet 120 feet	ed fill or en	nbankment 0.9		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6874

Adjusted unit production: 516.65 LCY/hr
Adjusted fleet production: 1033.3 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.676/LCY

Total job time: 23.66 Hours
Total job cost: \$16,529

TRUCK/LOADER TEAM WORK

Task description:	Phase 2	– Transpor	t and a	apply topsoil for	· highwall slopes		
Site: C Road Pit		Permit	Action	n: <u>2025</u>		Permit/Job#: <u>M</u>	2016050
PROJECT IDEN	NTIFICATION						
$\begin{array}{c} \text{Task #:} & 04C \\ \text{Date:} & 8/6/2 \\ \text{User:} & ACY \end{array}$			Colorac Mesa	lo	Ab	breviation: No. Mo. Mo. Mo.	ne 950-04c
	r organization nan	ne: DRM	S				
HOURLY EQUI	PMENT COST	Г			Shift bas	is: 1 per day	
		_	E	quipment Descri			
	Гruck Loader Tea	m -Truck:	Cat 7	30	ption		
Supr	oort Equipment -L	-Loader:	CAT NA	972H			
	-Dı	ımp Area:	Cat I	D8T - 8SU			
Road M	Iaintenance – Mote	or Grader: ter Truck:	NA NA				
	- w a	ter Truck:	NA				
Cost Breakdown:	Truck/Loa		1		Equipment		ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		100	NA	100	NA	NA
Ownership cost/hour:	\$118.61		5.96	NA	\$179.60	NA	NA
Operating cost/hour:	\$69.32	\$60	0.89	NA	\$110.45	NA	NA
%Utilization-riper:	NA NA		0	NA NA	0	NA NA	NA NA
Ripper own. cost/hour: Ripper op. cost/hour:	NA NA		0.00	NA NA	\$15.28 \$0.00	NA NA	NA NA
Operator cost/hour:	\$24.50		9.52	NA NA	\$39.46	NA NA	NA NA
Unit Subtotals:	\$212.43	\$180		NA	\$329.51	NA	NA
Number of Units:	2	<u>·</u>	1	0	1	0	0
Group Subtotals:	Work:	\$611.23		Support:	\$329.51	Maint:	\$0.00
Total work team co	st/hour: \$940.74						
MATERIAL QU	<u> IANTITIES</u>						
Initial volume			CCY	Swell	factor: 1.215		
Loose volume	3,779)	LCY				
	ource of estimated			$LF \times 120' = 7.71$	ac @ 3" = 3110		
Source	e of estimated swe Material Purch	_	\$0.00	andbook			
		otal Cost:	\$0.00				
HOURLY PRO	DUCTION						
'	DUCTION						
Truck Capacity: Truck Payload (wei	aht) Racie:						
Material v				Pounds/LCY			
Descr	ription: Top So	il					
Rated Pa Payload Ca				_ Pounds LCY			
1 4 1 1 0 4 4	1 ,						

Truck Travel (Haul & Return) Time:

penetration 5.0

Truck Bed (volume) Basis: Struck Volume:	17.10 LC	V				
Heaped Volume:	22.10 LC					
Average Volume:	19.60 LC					
Adjusted Volume:	22.10 LC					
<u> </u>						
	Fruck Volume Bas	sed on Number of	f Loader Passes:	18.48	LCY	
Loading Tool Capacity			Buck	et Size Class: N	NΑ	
Rated Capacity:	5.600	LCY (heaped)				
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100-	120%) 1.100		-
Adjusted Capacity:	6.160	LCY				-
Job Condition Corrections:		Si	te Altitude (ft.): 4	700 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB))		
Job Efficiency:	0.830	0.830	(CAT HB))		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number of	Loading Tool Pa	sses Required to F	ill Truck:	3 r	asses
Excavators and Front Shovels		S	1		1	
		oting: NA				
Machine Cycle Time vs Selected Value w	ithin this Basic Ra					
Track Loaders – N	Material Description	on:				
Cycle Time Elements (min.):						
Load: NA	Mane	uver: NA		Dump: 0.10	0	
Wheel and Track Loaders -	Unadjusted Basic	Loader Cycle Tir	ne (load, dump, m	naneuver):().525 minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Mixed material 0	.02		0.020		
Stockpile:	Conveyor or doze			0.020	(Cat HB)	_
Truck Ownership:				0.000	(Cat HB) (Cat HB)	_ _ _
	Common owners	hip of trucks and		0.000 -0.040	(Cat HB) (Cat HB) (Cat HB)	- - -
Operation:	Constant operation	hip of trucks and on -0.04		0.000 -0.040 -0.040	(Cat HB) (Cat HB) (Cat HB) (Cat HB)	- - -
Operation: Dump Target:		hip of trucks and on -0.04 00	loaders -0.04	0.000 -0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	- - - -
	Constant operation	hip of trucks and on -0.04 00 Net Cycle Tin	loaders -0.04 ne Adjustment:	0.000 -0.040 -0.040 0.000 -0.060	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	- - - -
	Constant operation	hip of trucks and on -0.04 00 Net Cycle Tin Adjusted Load	ne Adjustment: er Cycle Time:	0.000 -0.040 -0.040 0.000 -0.060 0.465	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	- - - -
	Constant operation	hip of trucks and on -0.04 00 Net Cycle Tin Adjusted Load	loaders -0.04 ne Adjustment:	0.000 -0.040 -0.040 0.000 -0.060	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	- - - -
	Constant operation Nominal target 0.	hip of trucks and on -0.04 00 Net Cycle Tin Adjusted Load Net Load T	ne Adjustment: er Cycle Time:	0.000 -0.040 -0.040 0.000 -0.060 0.465	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	- - - -
Dump Target:	Constant operation Nominal target 0.	hip of trucks and on -0.04 00 Net Cycle Tin Adjusted Load	ne Adjustment: er Cycle Time: ime per Truck:	0.000 -0.040 -0.040 0.000 -0.060 0.465	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Minutes
Dump Target: Truck Cycle Time:	Constant operation Nominal target 0.	hip of trucks and on -0.04 00 Net Cycle Tin Adjusted Load Net Load T	ne Adjustment: er Cycle Time: ime per Truck: Adjusted	0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Minutes

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	1.00	5.00	6.00	1122	0.514

Haul Time: 0.514 minutes Return Route: Grade (%) Total Res Travel Haul Distance Roll. Res Velocity Seg# Time (Ft) (%)(%) (fpm) (min) 500.00 -1.00 5.00 4.00 2855 0.342

Return Time: 0.342 minutes
Total Truck Cycle Time: 3.486 minutes

Selected Number of Trucks: 2 Truck(s)

Loading Tool unit

Production 680.25 LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour Truck Unit Production 318.07 LCY/Hour Adjusted for job efficiency: 264.00 LCY/Hour

Adjusted hourly truck team production: 528.00 LCY/Hour Adjusted single truck/loader team production: 528.00 LCY/Hour

Adjusted multiple truck/loader team production: 528.00 LCY/Hour

JOB TIME AND COST

Optimal No. of Trucks: 2 Truck(s)

 Fleet size:
 1
 Team(s)
 Total job time:
 7.16
 Hours

 Unit cost:
 \$1.782
 /LCY
 Total job cost:
 \$6,732

REVEGETATION WORK

C Road Pit						
	Permit A	Action: 2025	5		Permit/Joba	#: <u>M2016050</u>
ROJECT IDENTIFI	ICATION					
Task #: 04D		orado		۸۵	breviation:	None
Date: $\frac{64D}{8/6/2025}$	County: Me				Filename:	M050-04d
User: ACY	County:	Su			i ilename.	141030 044
Agency or organ	nization name: DRMS					
CRTILIZING						
nterials		TT */ /				
Description		Units /	Unit	Cos	t / Unit	Cost /Acre
Description		Acre	Unit	C03	er eme	Cost // ICI C
				\$		\$
				Tot	al Fertilizer	
				100	Materials	
					Cost/Acre	\$0.00
Description						
•						Cost /Acre
•						\$
•		Total	l Fertilizer	Applicatio	n Cost/Acre	
LLING		Tota	l Fertilizer	Applicatio	n Cost/Acre	\$
LLING		Tota	l Fertilizer	Applicatio	n Cost/Acre	\$ \$0.00
LLING Description	ep (MEANS 32 91 13.23 6		l Fertilizer	Applicatio	n Cost/Acre	\$ \$0.00 Cost /Acre
LLING Description	ep (MEANS 32 91 13.23 6		l Fertilizer	Applicatio	n Cost/Acre	\$ \$0.00
LLING Description	ep (MEANS 32 91 13.23 6				n Cost/Acre	\$ \$0.00 Cost /Acre
LLING Description	ep (MEANS 32 91 13.23 6					\$ \$0.00 Cost /Acre \$114.13
LLING Description Disc harrowing, 6" dec	ep (MEANS 32 91 13.23 6			Γotal Tillin	g Cost/Acre	\$ \$0.00 Cost /Acre \$114.13
LLING Description Disc harrowing, 6" dec	ep (MEANS 32 91 13.23 6			Гotal Tillin Rate –	g Cost/Acre	\$ \$0.00 Cost /Acre \$114.13
LLING Description Disc harrowing, 6" description	ep (MEANS 32 91 13.23 6			Γotal Tillin	Seeds	\$ \$0.00 Cost /Acre \$114.13
LLING Description Disc harrowing, 6" description	ep (MEANS 32 91 13.23 6			Fotal Tillin Rate – PLS LBS / Acre	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.13 \$114.13
LLING Description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Pale				Rate – PLS LBS / Acre 1.13	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre
LLING Description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Palesand Dropseed	oma			Rate – PLS LBS / Acre 1.13 0.13	Seeds per SQ. FT	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre \$23.76 \$1.73
Description Disc harrowing, 6" description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Pales Sand Dropseed Crested Wheatgrass - Sand Dropseed	oma			Rate – PLS LBS / Acre 1.13 0.13 1.25	Seeds per SQ. FT 3.66 15.52 5.74	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre \$23.76 \$1.73 \$6.89
Description Disc harrowing, 6" description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Pales Sand Dropseed Crested Wheatgrass - Galleta	oma Standard			Rate – PLS LBS / Acre 1.13 0.13 1.25 1.50	Seeds per SQ. FT 3.66 15.52	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre \$23.76 \$1.73 \$6.89 \$85.14
Description Disc harrowing, 6" description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Pales Sand Dropseed Crested Wheatgrass - Sand Dropseed	oma Standard			Rate – PLS LBS / Acre 1.13 0.13 1.25	Seeds per SQ. FT 3.66 15.52 5.74	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre \$23.76 \$1.73 \$6.89
Description Disc harrowing, 6" description Disc harrowing, 6" description EEDING Seed Mix Indian Ricegrass - Pales Sand Dropseed Crested Wheatgrass - Galleta	oma Standard			Rate – PLS LBS / Acre 1.13 0.13 1.25 1.50	Seeds per SQ. FT 3.66 15.52 5.74 5.48	\$0.00 Cost /Acre \$114.13 \$114.13 Cost /Acre \$23.76 \$1.73 \$6.89 \$85.14

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$279.08
	Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 7.71
 Cost /Acres:
 \$519.96

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$519.96

*Selected Replanting Work Items: _TILLING,SEEDING

Initial Job Cost: \$4,008.89

Reseeding Job Cost: \$2,004.45

Total Job Cost: \$6,013

12.00

TRUCK/LOADER TEAM WORK

Site: C Road Pit		Permit Action	on: 2025		Permit/Job#: M	2016050
PROJECT IDEN	TIFICATION					
Task #: 05A		State: Colora	ado	Ab	breviation: No:	ne
Date: 8/6/20)25	County: Mesa			Filename: M0	50-05a
User: ACY						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: 1 per day	
Т	ruck Loader Tea		Equipment Descri 730	ption		
1	ruck Loader Tea		730 Т 972Н			
Suppo	ort Equipment -L					
Pond Me	-Du aintenance –Mote		D8T - 8SU			
Koau Ma		ter Truck: NA				
C AB III	T 1/I	1 7	C (1	г . ,	34.1	
Cost Breakdown:	Truck/Loa	ader Team Loader	Load Area	Equipment Dump Area	Maintenan Motor Grader	ce Equipment Water Truck
0/11/11				-		NT A
%Utilization-machine:	100	\$65.96	NA NA	\$179.60	NA NA	NA NA
Ownership cost/hour: Operating cost/hour:	\$118.61 \$69.32	\$60.89	NA NA	\$179.60	NA NA	NA NA
%Utilization-riper:	NA	0	NA NA	0	NA NA	NA NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$15.28	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$24.50	\$59.52	NA	\$39.46	NA	NA
Unit Subtotals:	\$212.43	\$186.37	NA	\$329.51	NA	NA
Number of Units:	2	1	0	1	0	0
Group Subtotals:	Work:	\$611.23	Support:	\$329.51	Maint:	\$0.00
Total work team cos	st/hour: \$940.74	<u> </u>				
MATERIAL QU	ANTITIES					
Initial volume:		CCY	Swall	factor: 1.060		
Loose volume:				1.000		
Soi	arce of estimated	volume: 8 29	ac @18" = 44,261	I CV		
	of estimated swe		Handbook			 ,
	Material Purch	ase Cost: \$0.00)			
	To	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weigh						
Material w		1 1 5	Pounds/LCY			
Descri Rated Pa		nd gravel - Dry	Pounds			
Payload Car			LCY			

Truck Travel (Haul & Return) Time:

penetration 5.0

T 1 D 1 (1) D '						
Truck Bed (volume) Basis Struck Volume:		ICV				
Heaped Volume:		LCY LCY				
Average Volume:		LCY				
Adjusted Volume:		LCY				
•		Based on Number of	FI ander Desses	18.48	LCY	
	nai Truck volume	based on Number of	Loader Fasses.	10.40	LC1	
Loading Tool Capacity			Ruc	ket Size Class: 1	NΑ	
Rated Capacity	5.600	LCY (heaped)	2.00			<u> </u>
Bucket Fill Factor:		Other - rock/dir	t mixtures (100)-120%) 1.100		_
Adjusted Capacity	6.160	LCY	,	,		_
Job Condition Correction	ns:	Si	te Altitude (ft.):	4700 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI			
Net Correction:	0.830	0.830				
	e vs. Job Condition ue within this Basic	Rating: NA				
	s – Material Descri	ption:				
Cycle Time Elements (mi						
Load: NA	M	aneuver: NA		Dump: 0.10	0	
Wheel and Track Loade	rs - Unadjusted Ba	sic Loader Cycle Tir	ne (load, dump,	maneuver):	0.525 min	utes
Cycle Time Factor				Factor (min.)	Source	_
Materia				0.020	(Cat HB)	_
Stockpile		lozer piled 10 ft. hig		0.000	(Cat HB)	_
Truck Ownership		nership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation				-0.040	(Cat HB)	_
Dump Targe	t: Nominal targe		ne Adjustment:	0.000	(Cat HB)	
		Adjusted Load		-0.060 0.465	minutes minutes	
			ime per Truck:	1.030	minutes	
Truck Cycle Time:						
Truck Exchange Ti	me: 0.60	Minutes	Adjusted	l for site altitude:	0.600	Minute
Truck Load Ti		 Minutes		l for site altitude:	1.030	_ Minute
ck Maneuver and Dump Ti		 Minutes	ū	l for site altitude:	1.000	Minute
*			-			

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	1.00	5.00	6.00	1122	0.604

Haul Time: 0.604 minutes Return Route: Grade (%) Total Res Travel Haul Distance Roll. Res Velocity Seg# Time (Ft) (%)(%) (fpm) (min) 600.00 -1.00 5.00 4.00 2855 0.378

Return Time: 0.378 minutes
Total Truck Cycle Time: 3.612 minutes

Loading Tool unit

Production Cruck Unit Production LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour Adjusted for job efficiency: 254.79 LCY/Hour Adjusted for job efficiency: 254.79 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 509.58 LCY/Hour Adjusted single truck/loader team production: 509.58 LCY/Hour Adjusted multiple truck/loader team production: 509.58 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 92.07
 Hours

 Unit cost:
 \$1.846
 /LCY
 Total job cost:
 \$86,613

BULLDOZER RIPPING WORK

	Task description:	Pha	se 2 - Decompact pit floor	•				
Site	: C Road Pit		Permit Action:	2025	F	Permit/Job#	t: <u>M2016</u>	050
	PROJECT ID	ENTIFICATI	<u>ION</u>					
	Task #: 051	В	State: Colorado		Abl	oreviation:	None	
		/2025	County: Mesa			Filename:	M050-0	5b
	User: AC		, <u> </u>				-	
	Agency	or organization	n name: DRMS					
	HOURLY EQ	UIPMENT C	OST					
			ut D8T - 8SU		Horsepower:		310	
		achment: 3-5		<u>—</u>	Shift Basis:		per day	
	11		11	_	Data Source:		(CRG)	
	Cost Breakdown:							
		-			Utilization %			
		Ownership C		\$179.60	NA	_		
		Operating C		\$110.45	100	_		
		er Ownership C		\$15.28	NA	_		
	Кірі	per Operating C		\$9.14	100	_		
		Operator C Total Unit C		\$39.46 \$353.93	NA	=		
		Total Fleet C	Cost/Hour: \$707	.86				
	MATERIAL (<u>)UANTITIES</u>	Selection Selection	cted estimating	g method: Are	a		
	Alternate Method	<u>ls:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	18.29	acres	Rip Depth (ft):	2.00	Volume:	59,016		BCY or CCY
		Source of esti	mated quantity: Staff es	timates				
	HOURLY PRO	ODUCTION	-					
		<u>obec1101v</u>						
	Seismic:		Caiamia Valaaitu	NA	feet/sec	d		
			Seismic Velocity:	NA	leet/set	zona		
	Area:							
			ge Ripping Depth:	2.56	feet/pa			
			ge Ripping Width: e Ripping Length:	7.08 150.00	feet/pa			
			rage Dozer Speed:	88.00	feet/mi			
			e Maneuver Time:	0.25	minute			
		_	ction per unit area:	0.748	acres/h	-		
	Job Condition Co	orrection Factor	s					
			- y Unit Production:	0.748	Acres/l	nr		
	O.I.	aajustea 110u11						
			Site Altitude: Altitude Adj:	4,700 1.00	feet (CAT I	HR)		
			Job Efficiency:	0.83	(1 shift			
			Net Correction:	0.83	multipl	• /		
		Adjusted	Hourly Unit Production:	0.62	Acres/hr			
			Hourly Fleet Production:	1.24	Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	2	_ Grader(s)	Total job tin	ne:	14.72	He	ours
	Unit cost:	\$569.767	Per acre	Total job co	ost: \$	10,421		

TRUCK/LOADER TEAM WORK

Ownership cost/hour: \$118.61 \$65.96 NA \$179.60 NA NA Operating cost/hour: \$69.32 \$60.89 NA \$110.45 NA NA %Utilization-riper: NA 0 NA 30 NA NA NA NA Ripper own. cost/hour: NA \$0.00 NA \$15.28 NA NA NA Ripper own. cost/hour: NA \$0.00 NA \$15.28 NA NA NA NA NA NA NA N	Site: C Road Pit		Permit Action	on: 2025		Permit/Job#: M	2016050	
Task #: 05C	DDO IECT IDEN	JTIEICATION	r					
Date Rick/2025 County: Mesa Filename: M050-05c User: ACY Agency or organization name: DRMS HOURLY EQUIPMENT COST Shift basis: Leer day Filename: Truck Loader Team - Truck: -Loader: -Road Maintenance - Motor Grader: -Water Truck: NA Cost Breakdown: Truck Loader Team Support Equipment Maintenance Equipment -Water Truck: NA Cost Breakdown: Truck Loader Load Area Dump Area Motor Grader Water Truck -Water Truck: NA NA -Water Truck: N		NIIFICATION	-	ada	Λh	hraviation. No	na	
User: ACY		025		ado	A0			
HOURLY EQUIPMENT COST	· · · · · · · · · · · · · · · · · · ·							
Equipment Description	Agency or	organization nar	ne: DRMS					
Truck Loader Team - Truck Cat 730	HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: 1 per day		
Cat 972H					ption			
Support Equipment - Load Area: -Dump Are		Truck Loader Tea						
Road Maintenance - Motor Grader: - Water Truck: NA	Supp		oad Area: NA					
Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment	Dood M							
Truck	Road IV							
Truck	G (P 11	T 1/I	1 7	G	п .	3.6.1.		
	Cost Breakdown:							
Ownership cost/hour: \$118.61 \$65.96 NA \$179.60 NA NA Operating cost/hour: \$69.32 \$60.89 NA \$110.45 NA NA NA %Utilization-riper: NA 0 NA 30 NA NA NA NA Ripper own. cost/hour: NA \$0.00 NA \$15.28 NA NA NA Ripper op. cost/hour: NA \$0.00 NA \$15.28 NA NA NA NA NA NA NA N	0/77/11				-			
Operating cost/hour: \$69.32 \$60.89 NA \$110.45 NA NA \$0.00 NA 30 NA NA \$0.00 NA \$15.28 NA NA \$0.00 NA \$2.74 NA NA NA NA \$0.00 NA \$2.74 NA NA NA NA NA NA NA N								
%Utilization-riper: NA 0 NA 30 NA NA Ripper own. cost/hour: NA \$0.00 NA \$15.28 NA NA Ripper op. cost/hour: NA \$0.00 NA \$2.74 NA NA Operator cost/hour: \$24.50 \$59.52 NA \$39.46 NA NA Unit Subtotals: \$212.43 \$186.37 NA \$332.25 NA NA Number of Units: 2 1 0 1 0 0 Group Subtotals: Work: \$611.23 Support: \$332.25 Maint: \$0.00 Total work team cost/hour: \$943.48 MATERIAL QUANTITIES LCY Swell factor: 1.215 LCY Source of estimated volume: 18.29 ac @3" = 6,050 CY Cat Handbook Material Purchase Cost: \$0.00 Total Cost: Material weight: 1,600 <td co<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Ripper own. cost/hour: NA \$0.00 NA \$15.28 NA NA NA								
Ripper op. cost/hour: NA \$0.00 NA \$2.74 NA NA	•						NA NA	
Operator cost/hour: \$24.50 \$59.52 NA \$39.46 NA NA							NA	
Unit Subtotals: \$212.43 \$186.37 NA \$332.25 NA NA Number of Units: 2		\$24.50	\$59.52	NA	\$39.46	NA	NA	
Group Subtotals: Work: \$611.23 Support: \$332.25 Maint: \$0.00	Unit Subtotals:	\$212.43	\$186.37	NA	\$332.25	NA	NA	
Total work team cost/hour: \$943.48 MATERIAL QUANTITIES Initial volume: 7,377	Number of Units:	2	1	0	1	0	0	
MATERIAL QUANTITIES Initial volume: 7,377	Group Subtotals:	Work:	\$611.23	Support:	\$332.25	Maint:	\$0.00	
Initial volume: 7,377	Total work team co	st/hour: \$943.48	<u>}</u>					
Initial volume: 7,377								
Loose volume: Source of estimated volume: Source of estimated swell factor: Material Purchase Cost: Total Cost: Truck Capacity: Truck Payload (weight) Basis: Material weight: Description: Rated Payload: 62,000 LCY Cat Handbook \$0.00 \$0.00 \$0.00 Pounds/LCY Pounds/LCY Pounds/LCY Pounds	MATERIAL QU	ANTITIES						
Source of estimated volume: Source of estimated swell factor: Material Purchase Cost: Total Cost: Source of estimated swell factor: Cat Handbook \$0.00					factor: 1.215			
Source of estimated swell factor: Material Purchase Cost: Total Cost: So.00					CV			
Material Purchase Cost: \$0.00 Total Cost: \$0.00 HOURLY PRODUCTION Truck Capacity: Truck Payload (weight) Basis: Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds					CY			
HOURLY PRODUCTION Truck Capacity: Truck Payload (weight) Basis: Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds	Source							
Truck Capacity: Truck Payload (weight) Basis: Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds		To	otal Cost: \$0.00	0				
Truck Capacity: Truck Payload (weight) Basis: Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds	HOURLY PRO	DUCTION						
Truck Payload (weight) Basis: Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds	•	DUCTION						
Material weight: 1,600 Pounds/LCY Description: Top Soil Rated Payload: 62,000 Pounds		oht) Basis:						
Rated Payload: 62,000 Pounds				Pounds/LCY				
	Descr	ription: Top So						
				Pounds LCY				

Struck Volume:	17.10	LCY				
Heaped Volume:	22.10	LCY				
Average Volume:	19.60	LCY				
Adjusted Volume:	22.10	LCY				
Fina	ıl Truck Volume	Based on Number of	Loader Passes:	18.48	LCY	
Loading Tool Capacity						
			Buck	tet Size Class: N	ĪΑ	_
Rated Capacity:	5.600	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		<u> </u>
Adjusted Capacity:	6.160	LCY				
Job Condition Corrections	<u>s:</u>	Si	te Altitude (ft.): 4	1 <u>700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time	: Number	r of Loading Tool Pas	sses Required to l	Fill Truck:		passes
Excavators and Front Shov	els:					
Machine Cycle Time						
Selected Value	within this Basi	c Rating: NA				
Selected Value Track Loaders -	within this Basi - Material Descr	c Rating: NA				
Selected Value Track Loaders - Cycle Time Elements (min.	within this Basi - Material Descr	c Rating: NA			0	
Selected Value Track Loaders -	within this Basi - Material Descr	c Rating: NA		Dump:0.100	0	
Selected Value Track Loaders - Cycle Time Elements (min.	within this Basi - Material Descr):	c Rating: NA ription: Maneuver: NA		Dump:0.100	0.525 min	utes
Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	within this Basi - Material Descr): M - Unadjusted Ba	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Tir		Dump:0.100		utes
Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	within this Basi - Material Descr): M - Unadjusted Ba Mixed material	Ic Rating: NA Iniption: NA I	ne (load, dump, n	Dump: 0.100 naneuver): 0 Factor (min.) 0.020	Source (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	within this Basi - Material Descr): - Unadjusted Basi - Mixed material	c Rating: NA ription: Maneuver: NA rasic Loader Cycle Tin rial 0.02 dozer piled 10 ft. hig	ne (load, dump, n	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000	Source (Cat HB) (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basi Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own	ription: Maneuver: NA Masic Loader Cycle Tire Manual Cycle Tire Ma	ne (load, dump, n	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basi Material Descr Multiple Mixed Basi Mixed materi Conveyor or Common own Constant ope	Ic Rating: NA NA Iniption: NA Iniption: NA Iniption: NA Inipidial 0.02 Inipidial 0.02 Inipidial 0.02 Inipidial 0.02 Inipidial 0.04 Inipidial 0.04	ne (load, dump, n	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basi Material Descr M Unadjusted Ba Mixed materi Conveyor or Common own	faneuver: NA Masic Loader Cycle Tin Maid 0.02 Mozer piled 10 ft. high Masic Loader Cycle Tin Masi	ne (load, dump, n h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basi Material Descr Multiple Mixed Basi Mixed materi Conveyor or Common own Constant ope	Ic Rating: NA Inpition: Maneuver: NA Insic Loader Cycle Time Initial 0.02 Indozer piled 10 ft. high Input of trucks and ration -0.04 Initial 0.00 Net Cycle Time Net	ne (load, dump, n h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basi Material Descr Multiple Mixed Basi Mixed materi Conveyor or Common own Constant ope	Ic Rating: NA Iniption: NA Iniption: NA Iniption: NA Inipidial 0.02 Inipidial 0.02 Inipidial 0.02 Inipidial 0.04 Inipi	ne (load, dump, n h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basi Material Descr Multiple Mixed Basi Mixed materi Conveyor or Common own Constant ope	Ic Rating: NA Iniption: NA Iniption: NA Iniption: NA Inipidial 0.02 Inipidial 0.02 Inipidial 0.02 Inipidial 0.04 Inipi	ne (load, dump, ne h and up 0.00 loaders -0.04 loaders -Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Selected Value Track Loaders Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basi Material Descr Musel Mixed Basi Mixed materi Conveyor or Common own Constant ope Nominal targ	Ic Rating: NA Iniption: NA Iniption: NA Iniption: NA Inipidial 0.02 Inipidial 0.02 Inipidial 0.02 Inipidial 0.04 Inipi	h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
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 Cycle Time:	within this Basi Material Descr Musel Mixed Basi Mixed materi Conveyor or Common own Constant ope Nominal targ	Ic Rating: NA Iniption: Maneuver: NA Issic Loader Cycle Time Net Cycle Time Adjusted Loader Net Load Temporary Net Load Temporary Net Load Temporary NA NA NA NA NA NA NA NA NA N	h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: _	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	
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 Cycle Time: Truck Exchange Time	within this Basi Material Descr Unadjusted Basi Mixed material Conveyor or Common own Constant ope Nominal targ e: 0.60 e: 1.030	faneuver: NA Masic Loader Cycle Time Minutes NA NA NA NA NA NA NA NA NA N	ne (load, dump, ne h and up 0.00 loaders -0.04 loaders -0.	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030 for site altitude:	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Minu

<u>Truck Travel (Haul & Return) Time:</u> Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	1.00	5.00	6.00	1122	0.604

Haul Time: 0.604 minutes Return Route: Grade (%) Total Res Travel Haul Distance Roll. Res Velocity Seg# Time (Ft) (%)(%) (fpm) (min) 5.00 600.00 -1.00 4.00 2855 0.378

Return Time: 0.378 minutes
Total Truck Cycle Time: 3.612 minutes

Loading Tool unit

Production Truck Unit Production

Truck Unit Production

306.98 LCY/Hour Adjusted for job efficiency: 564.60 LCY/Hour Adjusted for job efficiency: 254.79 LCY/Hour Optimal No. of Trucks: 2 Truck(s)

Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 509.58 LCY/Hour Adjusted single truck/loader team production: 509.58 LCY/Hour Adjusted multiple truck/loader team production: 509.58 LCY/Hour

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 17.59
 Hours

 Unit cost:
 \$1.851
 /LCY
 Total job cost:
 \$16,595

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Initial Mobilization	1		
te: C Road Pit	Perm	it Action: 2025	Permit/Jo	b#: <u>M2016050</u>
PROJECT IDENTIFICA	TION			
Task #: 10A Date: 8/6/2025 User: ACY		Colorado Mesa	Abbreviation: Filename:	None M050-10a
Agency or organiza	tion name: DRM	S		
EQUIPMENT TRANSPO	ORT RIG COST			
				1 per day CRG Data
Truck Tractor D	escription: GEN		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer D	escription:	GENERIC FOLDIN	IG GOOSENECK, DROP DEC AILER (25T, 50T, AND 100T)	~
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour	:: \$21.47	\$38.32	\$48.96	
Operating Cost/Hour	:: \$31.47	\$60.11	\$65.86	
Operator Cost/Hour	:: \$22.52	\$22.52	\$22.52	
Helper Cost/Hour	.: \$0.00	\$22.25	\$22.25	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$75.46

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
	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$194.88	\$159.59	2	\$708.94	\$319.18	\$250.00
Drill/Broadcast	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Seeder with							
Tractor							
CAT 972H	28.00	\$65.96	\$143.20	1	\$209.16	\$143.20	\$250.00
Cat 730	25.19	\$118.61	\$75.46	3	\$582.21	\$226.38	\$750.00

\$143.20

\$159.59

Subtotals: \$1,581.76 \$764.22 \$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, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 1 T. Crew	\$86.86	2	\$173.72	\$173.72
Flatbed Truck, 4x2, 30K GVW	\$76.39	1	\$76.39	\$76.39

Subtotals: \$391.82 \$391.82

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total one-way travel distance:

Average Travel Speed:

CO

10.00

miles

40.00

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$7,336.51 \$195.91

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

JOB TIME AND COST

Total job time: 3.00 Hours

Total job cost: \$7,532

EQUIPMENT MOBILIZATION/DEMOBILIZATION

-	Γask description: <u>S</u>	econdary Mobiliz	zation				
Site:	C Road Pit	Perm	nit Action: _	2025		Permit/Job#	#: <u>M2016050</u>
<u>P</u>	ROJECT IDENTIFICAT	ΓΙΟΝ					
	Task #: 10B	State:	Colorado		Al	breviation:	None
	Date: 8/6/2025	County:	Mesa			Filename:	M050-10b
	User: ACY	_ · _					
	Agency or organizati	on name: DRM	1S				
E	QUIPMENT TRANSPO	RT RIG COST					
			•		Shift	basis: 1	per day
					Cost Data S		RG Data
	Truck Tractor De	scription: GEN	IERIC ON-H	HGHW	AY TRUCK TRAC	CTOR, 6X4, D	IESEL POWERED,
		1			400 HP (2ND HAI		,
	Truck Trailer De	scription:	GENERIC I		IG GOOSENECK,		EOUIPMENT
					AILER (25T, 50T,		
<u>C</u>	ost Breakdown:						
	Available Rig Capacities	0-25 Tons	26-50	Tons	51+ Tons	•	
	Ownership Cost/Hour:	\$21.47	\$38.	32	\$48.96	-	
	Operating Cost/Hour:	\$31.47	\$60.	11	\$65.86	-	
	Operator Cost/Hour:	\$22.52	\$22.	52	\$22.52		
	Helper Cost/Hour:	\$0.00	\$22.	25	\$22.25		
	Total Unit Cost/Hour:	\$75.46	\$143	.20	\$159.59		

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00

Subtotals: \$81.45 \$75.46 \$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, 1 T. Crew	\$141.71	1	\$141.71	\$141.71
Light Duty Pickup, 4x4, 1 T. Crew	\$86.86	1	\$86.86	\$86.86
Flatbed Truck, 4x2, 30K GVW	\$76.39	1	\$76.39	\$76.39

Subtotals: \$304.96 \$304.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total one-way travel distance:

Average Travel Speed:

CO

10.00

miles

40.00

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$741.36 \$152.48

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

JOB TIME AND COST

Total job time:	3.00	Hours
Total job cost:	\$894	_