

February 3, 2022

Daniel Pollock Grand Island Resources, LLC 4415 Caribou Rd P.O. Box 3395 Nederland, CO 80466

RE: Cross Gold Mine, Permit No. M-1977-410, 110(2) Hard Rock Permit Amendment Application (AM-02), Adequacy Review No. 5

Mr. Pollock:

The Division of Reclamation, Mining and Safety (Division) has completed its review of your adequacy response for Amendment No. 2 (AM-02), received on February 3, 2022. The Division has identified the following adequacy items in the application requiring additional information or clarification:

Exhibit L – Permanent Man-Made Structures (Rule 6.3.12):

1) The operator has submitted sufficient proof that a structure agreement was provided to the U.S. Forest Service (USFS) for USFS Road 505, which is located within 200 feet of the proposed permit area for the Caribou 300 Level Portal. After discussing this structure agreement with Mike Johnson of the USFS, it is the Division's understanding they plan to sign the agreement. <u>Once the operator has received the fully executed structure agreement for USFS Road 505</u>, please submit a copy to our office. Given the limited time remaining prior to the application decision date, the operator may send a copy of the fully executed structure agreement via email for AM-02 approval.

Additional Item(s):

- 2) Pursuant to Rule 1.6.2(1)(c), any changes or additions to the application on file in our office must also be reflected in the public review copy which was placed with the local County Clerk and Recorder. <u>Pursuant to Rule 6.4.18</u>, you must provide our office with an affidavit or receipt indicating the date this was done.
- 3) The Division has calculated the required financial warranty for the operation based on the reclamation plan proposed in AM-02 (see enclosed estimate), and found this amount to be \$365,812.00. <u>Please review the bond estimate provided and submit any comments at your earliest convenience.</u> The Division would like to remind the operator the \$162,841.00 interim financial warranty for water treatment required by the Mined Land Reclamation Board (Board) will be in addition to the amount calculated for AM-02 (and is due within 30 days of the effective date of the Board Order for Violation No. MV-2021-017, yet to be issued).



February 3, 2022 Daniel Pollock Grand Island Resources, LLC Page **2** of **2**

This concludes the Division's 5th adequacy review of AM-02. <u>The decision date for the application is</u> currently set for **February 8, 2021**. Please submit the remaining adequacy items with sufficient time prior to the decision date for the Division to complete its review process. Per Rule 1.4.1(9), the Division staff will not be able to approve an additional extension of the decision date for this application, as the current decision date coincides with the 365-day deadline from filing.

If you have any questions, you may contact me by telephone at 303-866-3567, ext. 8129, or by email at <u>amy.eschberger@state.co.us</u>.

Sincerely,

any Erchluger

Amy Eschberger Environmental Protection Specialist

Encl: Division's bond estimate for AM-02

Cc: Richard Mittasch, Grand Island Resources, LLC Daniel Takami, Grand Island Resources, LLC Michael Cunningham, DRMS

COST SUMMARY WORK

Task description:		Cost summary	y			_	
Site:	Cross Gol	ld Mine]	Permit Action:	AM-02 Bond Estimate 2022	Permit/Jol	b#: M1977410
PR	ROJECT 1	IDENTIFIC	CATION				
	Task #:	000	State	: Colorado		Abbreviation:	None
	Date:	2/2/2022	County	: Boulder		Filename:	M410-000
	User:	AME					

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Seal mine openings	MINESEAL	1	60.00	\$55,517
002	Demolish/remove structures	DEMOLISH	1	80.00	\$68,090
003	Install chain link fence at mine openings (total=190 LF)	NA	1	10.00	\$7,220
004	Backfill Pond 1	DOZER	1	0.47	\$95
005	Backfill Pond 2	DOZER	1	2.03	\$407
006	Backfill Ponds 3A-C	DOZER	1	4.81	\$964
007	Grade backfilled pond areas	DOZER	1	1.81	\$363
008	Retopsoil backfilled ponds	DOZER	1	3.74	\$749
009	Grade Idaho Tunnel side slopes	DOZER	1	2.35	\$470
010a	Haul and replace topsoil on Idaho Tunnel slopes	TRUCK1	1	0.92	\$720
011	Grade New Cross Mine Decline slope	DOZER	1	3.13	\$627
012	Haul and replace topsoil on New Cross Mine Decline	TRUCK1	1	1.31	\$1,024
013	Grade out new road	DOZER	1	4.15	\$831
014	Retopsoil new road area	DOZER	1	2.84	\$568
015	Grade waste rock slope (that does not overlap new rd)	DOZER	1	4.49	\$899
016	Retopsoil waste rock area (that does not overlap new rd)	DOZER	1	2.09	\$420
017	Retopsoil Cross Mine Adit area	DOZER	1	0.06	\$13
018	Retopsoil Idaho Tunnel portal area	DOZER	1	0.03	\$5
019	Haul and replace topsoil on Cross Vent Shaft and Escapeway	TRUCK1	1	0.11	\$89
020	Haul and replace topsoil on Potosi Shaft area	TRUCK1	1	0.18	\$144
021	Haul and replace topsoil on Caribou 300 LP area	TRUCK1	1	0.32	\$250
022	Grade slope at Caribou 300 LP	DOZER	1	0.20	\$41
023	Grade slope at Potosi Shaft	DOZER	1	0.06	\$12
024	Grade slope at Cross Vent Shaft & Escapeway	DOZER	1	0.05	\$10
025	Retopsoil Caribou Water Shed area	DOZER	1	0.02	\$4
026	Retopsoil Flow Shed 1 area	DOZER	1	0.02	\$4
027	Retopsoil Flow Shed 2 area	DOZER	1	0.02	\$4
028	Retopsoil Cross Ore Building area	DOZER	1	0.51	\$101
029	Retopsoil Explosives Storage area	DOZER	1	0.02	\$4
030	Backfill Historic Shaft Disturbance	TRUCK1	1	6.04	\$4,711
031	Grade Historic Shaft Disturbance	DOZER	1	0.18	\$36
032	Haul and replace topsoil on Historic Shaft Disturbance area	TRUCK1	1	0.44	\$341
033	Retopsoil disturbance between mine features	DOZER	1	11.81	\$2,367
034	Import 6,600 cy topsoil from Nederland (\$15/cy)	NA	1	1.00	\$99,000
035	Revegetate Cross/Caribou area (Subalpine Mix)	REVEGE	1	4.86	\$6,641
036	Revegetate Potosi Shaft area (Subalpine Mix)	REVEGE	1	0.01	\$14
037	Revegetate Caribou 300 LP area (Subalpine Mix)	REVEGE	1	0.01	\$14
038	Revegetate Cross/Caribou (Wetland Mix)	REVEGE	1	0.65	\$176

039	Revegetate Cross/Caribou (Tree/Shrub Mix)	REVI	EGE	1	0.14	\$171
040	Mobilization/demobilization	19.20	\$27,962			
			<u>SUBTC</u>	DTALS:	230.08	\$281,078

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$5,678
Performance bond:	1.05	Total =	\$2,951
Job superintendent:	230.00	Total =	\$16,567
Profit:	10.00	Total =	\$28,108
		TOTAL O & P =	\$53,304
		CONTRACT AMOUNT (direct + O & P) = $($	\$334,382

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	4.25 5.00	Total =	\$14,211 \$16,719
CONTINGENCY:	0.00	Total =	\$0
	TOTAI	INDIRECT COST =	\$84,734
TOTAL BO	ND AMOUNT	(direct + indirect) =	\$365,812

SAFEGUARDING UNDERGROUND OPENINGS

Т	ask description:	Seal mine o	penings			
Site: _	Cross Gold Mine		Permit Action:	AM-02 Bond Estimate 2022	Permit/J	ob#: <u>M1977410</u>
<u>PROJEC</u>	CT IDENTIFICATION	N				
Task #: Date: User:	1/28/2022	State: County:	Colorado Boulder	Ab	breviation: Filename:	None M410-001
	Agency or organizat	tion name:	DRMS			

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Cross Mine Adit	8x8	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	64.00	SF	\$192.07	\$12,292.48
Cross Vent Shaft & Escapeway	5x5	Shaft closure - precast concrete panel (per opening)	25.00	SF	\$10.92	\$273.00
Idaho Tunnel Portal	12x12	Adit closure - bulkhead seal, $>= 36$ sq. ft. (per sq. ft.)	144.00	SF	\$192.07	\$27,658.08
Potosi Shaft	бхб	Shaft closure - precast concrete panel (per opening)	36.00	SF	\$10.92	\$393.12
Caribou 300 Level Portal	8x8	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	64.00	SF	\$192.07	\$12,292.48
Cross Mine Adit (grated access)	2x2	Prefeb custom grate	4.00	SF	\$32.50	\$130.00
Idaho Tunnel Portal (grated access)	2x2	Prefeb custom grate	4.00	SF	\$32.50	\$130.00
Drainage pipe for dewatering (Cross Mine)	dewatering pipe	PVC drain pipe, 6 in. diameter (per ln. ft. incl. mat. & labor)	80.00	LF	\$11.74	\$939.20
Drainage pipe for dewatering (Idaho Tunnel)	dewatering pipe	PVC drain pipe, 6 in. diameter (per ln. ft. incl. mat. & labor)	120.00	LF	\$11.74	\$1,408.80

Job Hours: 60.00

Total Cost: \$55,517.16

DEMOLITION WORK

Task description:	Demolish/remo	ve structure	s				
Site: Cross Gold Mine	Per	mit Action:	AM-02 Bond Estin 2022		mit/Job#:	: <u>M1977</u>	410
PROJECT IDENTIFICATIO	<u>N</u>						
Task #: 002 Date: 1/28/2022 User: AME		olorado oulder		Abbreviatio Filenar		one 410-002	
Agency or organiza	tion name: DRI	MS					
<u>UNIT COSTS</u>				Location a	adjustme	ent: 102.20	<u>) %</u>
Structure or Item Description	Dimensions	Demolitio	n Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Cross Mine Snow Shed Removal	164x10x8		ly, small or single (single story) - etures	13,120.00	CF	\$0.18	\$2,348.48
Cross Mine Snow Shed Disposal	164x10x8	Hauling o	nly, per mile, 12- ck - 30 mph	29.50	MI	\$7.61	\$224.50
Cross 300 LP Snow Shed Removal	20x6x6	Demo. on	y, small or single (single story) -	720.00	CF	\$0.18	\$128.88
Pond 1 Liner Removal and Disposa	1 2,004 SF	Loading a	nd 5 mile haul, lowed - Steel	74.00	СҮ	\$10.8 5	\$802.90
Pond 2 Liner Removal and Disposa	1 8,285 SF	Loading a	nd 5 mile haul, lowed - Steel	307.00	CY	\$10.8 5	\$3,330.95
Cross 300 LP Snow Shed Disposal	20x6x6	Loading a	nd 5 mile haul, lowed - Steel	27.00	CY	\$10.8 5	\$292.95
Ponds 3A-C Liner Removal and Disposal	17,140 SF	Loading a	nd 5 mile haul, lowed - Steel	635.00	СҮ	\$10.8 5	\$6,889.75
New Road - Box Culvert Removal	5x4x80L	Pipe, reint	Forced concrete 0 in. diameter	80.00	LF	\$66.1 8	\$5,294.08
Caribou Water Shed Removal and Disposal	10x11x5	Bldg. (SC) demo./off-site a approved landfill mile haul	550.00	CF	\$0.68	\$373.45
Flow Shed 1 Removal and Disposal	10x6x6	Bldg. (SC) demo./off-site h approved landfill	360.00	CF	\$0.68	\$244.44
Flow Shed 2 Removal and Disposal	6x6x6	Bldg. (SC) demo./off-site h approved landfill	216.00	CF	\$0.68	\$146.66
Water Pipeline Removal	777ftx6in	Pipe, sewe	er/water - 12 in.	777.00	LF	\$4.57	\$3,550.89
Water Pipeline Disposal	diam 777ftx6in diam		nd 5 mile haul, lowed - Steel	15.00	CY	\$10.8 5	\$162.75
Cross Ore Building Removal and Disposal	80x40x25H	Bldg. (SN) demo./off-site approved landfill	80,000.00	CF	\$0.43	\$34,080.00

Demo Worksheet Cont'd

Task # TTT

Cross Ore Building Foundation	80x40x25H	Floor, concrete, demolition	3,200.00	SF	\$1.92	\$6,144.00
Demo		only, average reinforcing -				
		12 in. thick				
Cross Ore Building Foundation	80x40x25H	Loading and 5 mile haul,	119.00	CY	\$12.8	\$1,523.20
Removal and Disposal		salvage allowed - Concrete			0	
		frame structures				
New Road - Box Culvert Disposal	5x4x80L	Bldg. (SC) demo./off-site	1,600.00	CF	\$0.68	\$1,086.40
		disposal in approved landfill				
		- Max. 30 mile haul				

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$66,624.28	location):	\$68,090.01

	ask description:	Dackin	l Pond 1				
e: _	Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
P	ROJECT IDENTIFI	CATION	N				
	Task #: 004		State:	Colorado		Abbreviation:	None
	Date: 1/26/2022		County:	Boulder		Filename:	M410-004
	User: AME						
	Agency or organ	ization na	me: DR	RMS			
H	OURLY EQUIPME	NT COS	5 <u>T</u>				
	Basic Machine: Cat	D7R DS 2	XR Series	II			
	Horsepower: 240						
	Blade Type: Sem	ni-Univers	al				
	Attachment: NA						
		er day					
	Data Source: (CR	G)					
<u>C</u>	ost Breakdown:						
				001.00	Utilization %		
	Ownership Cost/Hour:			\$81.02	NA		
	Operating Cost/Hour:			\$79.33	100		
	ipper own. Cost/Hour:			\$0.00 \$0.00	NA		
	Ripper op. Cost/Hour:				0		
	Operator Cost/Hour:			\$40.04	NA		
	otal unit Cost/Hour: otal Fleet Cost/Hour:	\$200.39 \$200.39					
10		\$ 200. 39					
	-		·				
M	IATERIAL QUANT		<u> </u>				
M	IATERIAL QUANT	ITIES					
M	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125	ITIES					
M	IATERIAL QUANT	ITIES					
M	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125	ITIES 5 LCY	40x60x3		ackfill with perimeter bern	ns	
<u>M</u> So	IATERIAL QUANTInitial Volume:267Swell factor:1.125Loose volume:300 I	ITIES 5 LCY ne:			ackfill with perimeter bern	05	
M So So	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volun ource of estimated swell	ITIES CY he: factor:	40x60x3		ackfill with perimeter bern	ns	
<u>M</u> So So	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I Dource of estimated volum	ITIES CY he: factor:	40x60x3		ackfill with perimeter bern	n <u>s</u>	
M So So H	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volun ource of estimated swell COURLY PRODUCT	ITIES	40x60x3 Cat Hand		ackfill with perimeter bern	<u>ns</u>	
<u>M</u> So So <u>H</u>	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volun ource of estimated swell OURLY PRODUCT verage push distance:	ITIES <u>CY</u> he: factor: <u>ION</u> 5	40x60x3 Cat Hand 0 feet	book	ackfill with perimeter bern	ns	
<u>M</u> So So <u>H</u> U:	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volun ource of estimated swell COURLY PRODUCT	ITIES 5	40x60x3 Cat Hand 0 feet ,022.9 LC	book	^	ns	
<u>M</u> So So <u>H</u> U	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I purce of estimated volum purce of estimated swell (OURLY PRODUCT) verage push distance: nadjusted hourly produc Iaterials consistency desc	ITIES ICY factor: TON tion: 5	40x60x3 Cat Hand 0 feet ,022.9 LC	book Y/hr	^	05	
M So So H U U M A	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volum ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly product	ITIES 5	40x60x3 Cat Hand 0 feet ,022.9 LC Consol	book Y/hr	^	<u>ns</u>	
M So So H U U M A	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I purce of estimated volum purce of estimated swell IOURLY PRODUCT verage push distance: nadjusted hourly produc Iaterials consistency desc verage push gradient:	ITIES ICY Inc: factor: TON fion: 5 finition: 6 finitio	40x60x3 Cat Hand 0 feet ,022.9 LC Consol et	book Y/hr	^	n <u>s</u>	
M So So H A U A A A M	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volum ource of estimated swell COURLY PRODUCT verage push distance: nadjusted hourly produc Iaterials consistency desc verage push gradient: verage site altitude:	ITIES 5 CY ne: factor: factor: factor: fictor:	40x60x3 Cat Hand 0 feet ,022.9 LC Consol et .s/LCY	book Y/hr idated stockj	^	<u>ns</u>	
M Sc Sc H U U M A A M W	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volum ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly produc laterials consistency desc verage site altitude: laterial weight:	ITIES 5 CY ne: factor: factor: TION tion: 1 cription: 5 9,700 fe 2,650 lb Decomption:	40x60x3 Cat Hand 0 feet ,022.9 LC Consol et .s/LCY	book Y/hr idated stockj	pile 1.0	ns	
M Sc Sc H U U M A A M W	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volum ource of estimated volum ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly produc Iaterials consistency desc verage site altitude: Iaterial weight: Veight description: ob Condition Correction Operator S	ITIES 5 CY ne: factor: factor: factor: factor: factor: form 1 cription: form	40x60x3 Cat Hand 0 feet ,022.9 LC Consol eet s/LCY posed rock	book Y/hr idated stockj - 25% Rock 000	pile 1.0	ns	
M So So M A M A M W	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I purce of estimated volume 300 I purce of estimated swell 0 OURLY PRODUCT verage push distance: nadjusted hourly product Iaterials consistency description: Verage push gradient: verage site altitude: Iaterial weight: Veight description: Ob Condition Correction Operator S Material consiste 0	ITIES JCY ne: factor: factor: 1 tion: 1 cription: -5 % 9,700 fe 2,650 lb Decomp Factor Skill: -ncy:	40x60x3 Cat Hand 0 feet ,022.9 LC Consol eet s/LCY posed rock 1.	book Y/hr idated stockj - 25% Rock 000 000	pile 1.0 , 75% Earth (EXCL.) (CAT HB)	ns	
M Sc Sc H U U M A A M W	IATERIAL QUANT Initial Volume: 267 Swell factor: 1.125 Loose volume: 300 I ource of estimated volum ource of estimated volum ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly produc Iaterials consistency desc verage site altitude: Iaterial weight: Veight description: ob Condition Correction Operator S	ITIES 5	40x60x3 Cat Hand 0 feet ,022.9 LC Consol eet s/LCY posed rock 1. 1.	book Y/hr idated stockj - 25% Rock 000	 pile 1.0 , 75% Earth (EXCL.)	ns	

ey:	0.830	(1 SHIFT/DAY)
le:	0.700	(FND-MF)
nt:	1.115	(CAT HB)
le:	1.000	(CAT HB)
ht:	0.868	(CAT HB)
be:	1.000	(PAT)
on: 0.6	185	
632.66	LCY/hr	
632.66	LCY/hr	
	le:	le: 0.700 nt: 1.115 le: 1.000 ht: 0.868 pe: 1.000

Fleet size:	1 Dozer(s)
Unit cost:	\$0.317/LCY
Total ich time	0 47 Hours

Total job time:	0.4 7 Hours
Total job cost:	\$95

Task description:	Backf	ill Pond 2				
: _Cross Gold Mine	<u>.</u>	Per	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDEN	TIFICATIO	N				
Task #: 005		State:	Colorado		Abbreviation:	None
Date: 1/26/2 User: AME	.022	County:	Boulder		Filename:	M410-005
	<u>organization</u>	ama: DE	RMS			
Agency of	organization n					
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D7R DS	XR Series	II			
Horsepower: Blade Type:	240 Semi-Univer	sal				
Attachment:	NA	bul				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:				TU1		
Ownership Cost/H	0114.		\$81.02	Utilization % NA		
Operating Cost/H			\$79.33	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	our:		\$40.04	NA		
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	ANTITIES 1,141 1.125	9				
Loose volume:	1,284 LCY					
Source of estimated Source of estimated		110x70x4 Cat Hand	,	f; backfill with perimeter b	erms	
HOURLY PROD	<u>UCTION</u>					
Average push distan Unadjusted hourly p		50 feet 1,022.9 LC	Y/hr			
Materials consistenc	y description:	Consol	idated stock	pile 1.0		
Average push gradie Average site altitude		eet				
Material weight:	2,6501	bs/LCY			_	
Weight description:	Decom	posed rock	- 25% Rock	, 75% Earth		
Job Condition Corre				Source		
	rator Skill:		000	(EXCL.)		
Material co			000	(CAT HB)		
	g method: Visibility:		100 000	(50% SL) (AVG.)		
	visionity:	1.	000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6185	
Adjusted unit production: 6.	32.66 LCY/hr	
Adjusted fleet production: 6 .	32.66 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.317/LCY

Total job time:	2.03 Hours
Total job cost:	\$407

10	ask description:	Backfi	ill Ponds 3A	A-C			
e: _	Cross Gold Mine		Perr	nit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
Pl	ROJECT IDEN	TIFICATIO	N				
	Task #: 006 Date: 1/26/20		State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-006
	User: AME						
	Agency or o	organization n	ame: DR	MS			
H	OURLY EQUIE	PMENT CO	<u>ST</u>				
	Basic Machine:	Cat D7R DS	XR Series 1	П			
	Horsepower:	240					
	Blade Type:	Semi-Univer	sal				
	Attachment:	NA					
	Shift Basis:	1 per day					
	Data Source:	(CRG)					
<u>Cc</u>	ost Breakdown:						
					<u>Utilization %</u>		
	Ownership Cost/Ho			\$81.02	NA		
	Operating Cost/Ho	our:		\$79.33	100		
Ri	pper own. Cost/Ho	our:		\$0.00	NA		
	Ripper op. Cost/Ho			\$0.00	0		
	Operator Cost/Ho						
	otal unit Cost/Hour otal Fleet Cost/Hou	: \$200.39		\$40.04	NA		
Тс <u>М</u>	otal unit Cost/Hour otal Fleet Cost/Hou [ATERIAL QUA Initial Volume: Swell factor:	:: \$200.39 II: \$200.39 ANTITIES 2,704 1.125		\$40.04	NA		
Тс <u>М</u>	otal unit Cost/Hour otal Fleet Cost/Hou [ATERIAL QUA Initial Volume: Swell factor:	:: \$200.39 Ir: \$200.39 ANTITIES 2,704 1.125 3,042 LCY	Total 157		 005 cf; backfill with perim	neter	
To <u>M</u> J	otal unit Cost/Hour otal Fleet Cost/Hou [ATERIAL QUA Initial Volume: Swell factor: Loose volume:	: \$200.39 r: \$200.39 ANTITIES 2,704 1.125 3,042 LCY volume:)	 x93x5 = 73,		neter	
To <u>M</u>] So So	otal unit Cost/Hour otal Fleet Cost/Hou (ATERIAL QUA Initial Volume: Swell factor: Loose volume: purce of estimated v	:: \$200.39 II: \$200.39 ANTITIES 2,704 1.125 3,042 LCY volume: swell factor:	Total 157: berms	 x93x5 = 73,		neter	
To M So So H	Datal unit Cost/Hour Datal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so Durce of estimated so OURLY PROD	:: \$200.39 ar: \$200.39 ANTITIES 2,704 1.125 3,042 LCY volume: swell factor: UCTION	Total 157 berms Cat Handl	 x93x5 = 73,		neter	
To <u>M</u> J So So <u>H</u> Av	otal unit Cost/Hour otal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: purce of estimated so	: \$200.39 ar: \$200.39 ANTITIES 2,704 1.125 3,042 LCY volume: swell factor: <u>UCTION</u> ce:	Total 157: berms	 x93x5 = 73, book		neter	
To <u>M</u> J So So <u>H</u> Ur	otal unit Cost/Hour otal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: ource of estimated so ource of estimated so OURLY PROD verage push distance	*: \$200.39 sr: \$200.39 ANTITIES 2,704 1.125 3,042 LCY volume: swell factor: UCTION ce: roduction:	Total 157 berms Cat Handl 50 feet 1,022.9 LCY	 x93x5 = 73, book	005 cf; backfill with perim	neter	
To M So So M Un M	Datal unit Cost/Hour Datal Fleet Cost/Hour Datal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so Durce of estimated so OURLY PROD werage push distance hadjusted hourly put aterials consistence	:: \$200.39 arr: \$200.39 ANTITIES \$2,704 1.125 3,042 LCY volume: \$\$well factor: wolume: \$\$well factor: UCTION \$\$ ce: \$\$ roduction: \$\$ y description: \$\$	Total 157 berms Cat Handl 50 feet 1,022.9 LCY	 x93x5 = 73, book	005 cf; backfill with perim	neter	
To M So So So H Ur M Av	Datal unit Cost/Hour Datal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so purce of estimated so OURLY PROD verage push distance nadjusted hourly pu	:: \$200.39 antifies \$5 %	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli	 x93x5 = 73, book	005 cf; backfill with perim	neter	
To <u>M</u> So So <u>F</u> M M Av Av	Datal unit Cost/Hour Datal Fleet Cost/Hour Datal Fleet Cost/Hour ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so Durce of estimated so OURLY PROD werage push distance nadjusted hourly pu aterials consistency verage push gradie	*: \$200.39 antifies \$2,704 antifies \$2,704 antifies \$2,704 antifies \$2,700 antifies \$2,700	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli	 x93x5 = 73, book	005 cf; backfill with perim		
To M So So M Un M M M	Datal unit Cost/Hour Datal Fleet Cost/Hour Datal Fleet Cost/Hour (ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so Durce of estimated so OURLY PROD verage push distance nadjusted hourly pu aterials consistency verage push gradie verage site altitude	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli eet bs/LCY	 x93x5 = 73, book	 005 cf; backfill with perin pile 1.0		
To M So So H M M M M W	Datal unit Cost/Hour Datal Fleet Cost/Hour Datal Fleet Cost/Hour Data Fleet Cost/Hour Data Fleet Cost/Hour Initial Volume: Swell factor: Data Fleet Cost/Hour Swell factor: Loose volume: Data Fleet Cost/Hour Swell factor: Loose volume: Data Fleet Cost/Hour Data Fleet Cost/Ho	$ \begin{array}{rcl} & & & & & \\ & & & & \\ & & & & \\ & & & & $	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli eet bs/LCY posed rock	 x93x5 = 73, book Y/hr idated stockj - 25% Rock	005 cf; backfill with perim pile 1.0 , 75% Earth 		
To M So So M Ur M Av Av M W	bal unit Cost/Hour bal Fleet Cost/Hour bal Fleet Cost/Hour ATERIAL QU Initial Volume: Swell factor: Loose volume: burce of estimated we burce of estimated we burce of estimated we OURLY PROD verage push distance aterials consistency verage push gradie verage push gradie verage site altitude aterial weight: feight description: <u>b Condition Correct</u> Operation	$\frac{\$200.39}{\$200.39}$ $\frac{\$1125}{\$200.39}$ $\frac{\$1125}{\$3,042}$ $\frac{\$3,042}{1.125}$ $\frac{\$3,042}{1.125}$ $\frac{\$3,042}{1.125}$ $\frac{1.125}{3,042}$	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli eet bs/LCY posed rock	 x93x5 = 73, book Y/hr idated stockp - 25% Rock	 005 cf; backfill with perim pile 1.0 , 75% Earth (EXCL.)	neter	
To M So So H M M M M W	Data unit Cost/Hour Data Fleet Cost/Hour Data Fleet Cost/Hour ATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated of Durce of Durce of Durce of Durce of Durce of Durce of Durce of D	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Total 157 berms Cat Handl 50 feet 1,022.9 LCY Consoli eet bs/LCY posed rock	 x93x5 = 73, book Y/hr idated stockj - 25% Rock	005 cf; backfill with perim pile 1.0 , 75% Earth 	neter	

1.000 0.830	(AVG.) (1 SHIFT/DAY)
	(1 SHIFT/DAY)
0.700	
0.700	(FND-MF)
1.115	(CAT HB)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
0.6185	
	1.000 0.868 1.000

Aujusicu unit production.	032.00 LC 1/III
Adjusted fleet production:	632.66 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.317/LCY

Total job time:	4.81 Hours
Total job cost:	\$964

Task description:	Gi aue Daci	kfilled pond areas			
e: Cross Gold Mine		Permit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENTI	FICATION				
Task #: 007 Date: 1/26/2022 User: AME		tate: Colorado inty: Boulder		Abbreviation: Filename:	None M410-007
Agency or org	ganization name:	DRMS			
HOURLY EQUIPM	IENT COST				
	Cat D7R DS XR S	Series II			
	40				
	emi-Universal				
• • • • • • • • • • • • • • • • • • • •	JA				
	per day				
	CRG)				
Data Source. (CRU)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour		\$81.02	NA		
Operating Cost/Hour		\$79.33	100		
Ripper own. Cost/Hour		\$0.00	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour		\$40.04	NA		
- F		+	1111		
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: 96					
MATERIAL QUAN Initial Volume:96	NTITIES 58				
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0	NTITIES 58 000				
MATERIAL QUANInitial Volume:96Swell factor:1.0Loose volume:96	NTITIES 58 000 58 LCY				
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0	NTITIES 58 000 58 LCY lume:	al surf area = 0.6 a Handbook	cre x 1 ft grading		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol	NTITIES 58 000 58 LCY lume: Tot rell factor: Cat		cre x 1 ft grading		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated swell 96	NTITIES 58 000 58 LCY lume: Tot rell factor: Cat CTION 50 fee	Handbook	cre x 1 ft grading		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated vol 96 MATERIAL QUAN 96 Mathematical Source of estimated vol 96 Mathematica Source of estimated vol 96 Mathematica Source of estimated vol 96 Mathematica Source of estimated source 96 Mathemati	NTITIES 58 000 58 LCY lume: Tot rell factor: Cat CTION tuction: 50 feet duction: 1,022	Handbook			
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated swell 96 MOURLY PRODUC 96 Average push distance: 96 Unadjusted hourly prod 96	NTITIES 58 000 58 LCY lume: Tot rell factor: Cat CTION duction: 1,022 lescription: F	Handbook et .9 LCY/hr			
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated swell 96 MOURLY PRODUC 96 Average push distance: 96 Unadjusted hourly prod 96 Materials consistency destination 96	NTITIES i8 000 i8 LCY lume: Tot rell factor: Cat CTION iaction: 1,022 duction: 1,022 description: F 0 %	Handbook et .9 LCY/hr Partly consolidated			
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated vol 96 Source of estimated vol 96 Average push distance: 96 Unadjusted hourly prod 96 Average push gradient: Average site altitude:	STITIES 58 000 58 LCY lume: Tot rell factor: Cat CTION tuction: $1,022$ lescription: F 0% $9,700$ feet $2,650$ lbs/LC	Handbook et .9 LCY/hr Partly consolidated	stockpile 1.1		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated vol 96 Source of estimated vol 96 Source of estimated swell 96 HOURLY PRODUC 96 Average push distance: 96 Unadjusted hourly prod 96 Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction 96	VTITIES i8 000 i8 LCY lume: Tot rell factor: Cat CTION istriction: 1,022 duction: 1,022 lescription: F 0 % 9,700 feet 2,650 lbs/LC Decomposed on Factor E	Handbook et .9 LCY/hr Partly consolidated CY t rock - 25% Rock	stockpile 1.1		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated vol 96 Source of estimated vol 96 Materials consistency of 96 Average push distance: 96 Unadjusted hourly prod 96 Average push gradient: Average site altitude: Material weight: 96 Weight description: 10b Condition Correction Operator 96	VTITIES i8 000 i8 LCY lume: Tot rell factor: Cat CTION istriction: 1,022 duction: 1,022 lescription: F 0 % 9,700 feet 2,650 lbs/LC Decomposed on Factor on Skill:	Handbook et .9 LCY/hr Partly consolidated CY t rock - 25% Rock 1.000			
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol Source of estimated swell Source of estimated swell Mourly PRODUC Average push distance: Unadjusted hourly prod Materials consistency of Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Material consi Operator	VTITIES i8 000 i8 LCY lume: Tot rell factor: Cat CTION : 50 fee duction: 1,022 lescription: F	Handbook et .9 LCY/hr Partly consolidated CY 1 rock - 25% Rock 1.000 1.100	stockpile 1.1		
MATERIAL QUAN Initial Volume: 96 Swell factor: 1.0 Loose volume: 96 Source of estimated vol 96 Source of estimated vol 96 Source of estimated vol 96 Materials consistency of 96 Average push distance: 96 Unadjusted hourly prod 96 Average push gradient: Average site altitude: Material weight: 96 Weight description: 10b Condition Correction Operator 96	VTITIES i8 000 i8 LCY lume: Tot rell factor: Cat CTION : 50 fee duction: 1,022 lescription: F	Handbook et .9 LCY/hr Partly consolidated CY t rock - 25% Rock 1.000			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5230	
Adjusted unit production: 53	4.98 LCY/hr	
Adjusted fleet production: 53	4.98 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.375/LCY

Total job time:	1.81 Hours
Total job cost:	\$363

Permit Action: AM-02 Bond Estimate 2022 Permit/J	lob#: <u>M1977410</u>
PROJECT IDENTIFICATION	
Task #:008State:ColoradoAbbreviationDate:1/28/2022County:BoulderFilenarUser:AMEFilenarFilenar	
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST	
Basic Machine: Cat D7R DS XR Series II	
Horsepower: 240	
Blade Type: Semi-Universal	
Attachment: NA	
Shift Basis: 1 per day Data Source: (CRG)	
Cost Breakdown: Utilization %	
Ownership Cost/Hour: \$81.02 NA	
Operating Cost/Hour:\$79.33100	
Ripper own. Cost/Hour: \$0.00 NA	
Ripper op. Cost/Hour: \$0.00 0	
Operator Cost/Hour: \$40.04 NA	
Total unit Cost/Hour: \$200.39 Total Fleet Cost/Hour: \$200.39 MATERIAL QUANTITIES	
Initial Volume:968Swell factor:1.215Loose volume:1,176 LCY	
Source of estimated volume:Total 0.6 ac x 12 in topsoilSource of estimated swell factor:Cat Handbook	
HOURLY PRODUCTION	
Average push distance:300 feetUnadjusted hourly production:311.1 LCY/hr	
Materials consistency description: Partly consolidated stockpile 1.1	
Average push gradient:0 %Average site altitude:9,700 feet	
Material weight: 1,600 lbs/LCY	
Weight description: Top Soil	
Job Condition Correction Factor Source	
bor condition contection ration	
Operator Skill: 1.000 (EXCL.)	
Operator Skill:1.000(EXCL.)Material consistency:1.100(CAT HB)	
Operator Skill: 1.000 (EXCL.)	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	1.0109	
Adjusted unit production: 3	314.49 LCY/hr	
Adjusted fleet production: 3	314.49 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.637/LCY

Total job time:	3.74 Hours
Total job cost:	\$749

Task description:	-	Grade Idaho Tur	nnel side slo	pes		
: _Cross Gold Mir	10	Perr	nit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDE	<u>NTIFIC</u>	ATION				
Task #: 009 Date: 1/28/ User: AME	/2022	State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-009
		ation name: DR	MS			
HOURLY EQU	-					
		7R DS XR Series 1	Π			
Basic Machine:	$\frac{\operatorname{Cat} D}{240}$	/ K DS AK Series	11			
Horsepower:	-	Universal				
Blade Type:	-	Universal				
Attachment:	NA	1.				
Shift Basis:	1 per					
Data Source:	(CRG)				
Cost Breakdown:						
				Utilization %		
Ownership Cost/I	Hour:		\$81.02	NA		
Operating Cost/I			\$79.33	100		
Ripper own. Cost/I			\$0.00	NA		
Ripper op. Cost/I			\$0.00	0		
Operator Cost/I			\$40.04	NA		
Total unit Cost/Ho	ur:	\$200.39				
Total Fleet Cost/He		\$200.39				
		+ <u>-</u> 0000				
MATERIAL QU		TIFS				
		1120				
Initial Volume:	1,667					
Swell factor:	1.250					
Loose volume:	2,084 I	LCY				
					1 . 2 1	
Source of estimated		1		x avg 30 ft H; Cut/Fill 1:	1 to 3:1	
Source of estimated	1 swell la	actor: Cat Hand	DOOK			
HOURLY PRO	DUCTI	<u>ON</u>				
Average push dista	nce.	50 feet				
Unadjusted hourly			V/hr			
Unaujusieu nouriy	productio	JII. 1,022.9 LC	1 / 111			
Materials consister	icy descri	iption: Compa	cted fill or e	mbankment 0.9		
A	• • • • •	5.04				
Average push grad		-5 %				
Average site altitud	le:	9,700 feet				
Matarial waight		2.650 lbg/I CV				
Material weight:	_	2,650 lbs/LCY			_	
Weight description	: _	Decomposed rock	- 25% Rock	, 75% Earth		
Job Condition Corr	rection Fa	actor		Source		
	erator Ski		000	(EXCL.)		
Material c			900	(CAT HB))		
	ing metho		200	(CAT HB)) (SLOT)		
DOZI				· · · · · · · · · · · · · · · · · · ·		
	Visibili	ty: <u>1.</u>	000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8676	
Adjusted unit production: 88	37.47 LCY/hr	
Adjusted fleet production: 88	87.47 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.226/LCY

Total job time:	2.35 Hours
Total job cost:	\$470

Page 1 of 3

TRUCK/LOADER TEAM WORK

Site: Cross Gold Min	e	Permit Actio	on: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
PROJECT IDEN	NTIFICATION	I				
Task #: 010 Date: 1/28/2 User: AME		State: <u>Colora</u> County: <u>Bould</u>		Ab	breviation: <u>No</u> Filename: <u>M</u> 4	one 410-010a
Agency or	organization nat	me: DRMS				
HOURLY EQUI	PMENT COS	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
	Fruck Loader Tea		725	•		
Supr	ort Equipment -I		Г 950Н			
Supp			D7R DS XR Seri	es II		
Road M	laintenance –Mot		Т 14М	~ .		
	-Wa	ater Truck: Wat	ter Tanker, 3,500	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support]	Equipment	Maintenar	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals: Number of Units:	\$146.85	\$111.12	NA 0	\$180.55	\$162.87	\$31.75
Group Subtotals:	Work:	\$404.82	Support:	1 \$180.55	1 Maint:	1 \$194.62
*		·	Support.	\$180.55	Iviaint.	\$194.02
Total work team co	st/hour: <u>\$779.99</u>)				
MATERIAL QU	ANTITIES					
Initial volume	: 225	CCY	Swell	factor: 1.215		
Loose volume				1.215		
	ource of estimated of estimated swo Material Purch To	ell factor: Cat H		soil		
HOURLY PRO	DUCTION					
Truck Capacity: Truck Payload (wei						
Material v Descr	weight: <u>1,600</u> ription: Top So		Pounds/LCY			
Rated Pa	ayload: 52,000)	Pounds			

Truck/Loader Worksheet Cont'd		Task # 0104	1		Page 2 of 3	
Payload Capacity:	32.50	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final	Truck Volum	e Based on Number of	of Loader Passes:	18.92	LCY	
Loading Tool Capacity			-			
		1		ket Size Class: <u>N</u>	IA	
Rated Capacity:	4.300	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	0-120%) 1.100		_
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:	-	S	Site Altitude (ft.):	<u>9700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	,		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Numb	er of Loading Tool Pa	asses Required to	Fill Truck:	4 1	passes
Excavators and Front Shove	ls:					
Machine Cycle Time v Selected Value v						
Selected Value v	within this Bas	sic Rating: NA				
Selected Value v Track Loaders –	within this Bas Material Desc	sic Rating: NA				
Selected Value v Track Loaders –	vithin this Bas Material Desc	sic Rating: NA		 Dump:0.100)	
Selected Value v Track Loaders – Cycle Time Elements (min.):	within this Bas Material Desc 	sic Rating: NA cription:		Dump: 0.100)).500 min	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	within this Bas Material Desc – Unadjusted E	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Tr	ime (load, dump, 1	Dump: 0.100		utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	within this Bas Material Desc – Unadjusted E	sic Rating: NA cription:	ime (load, dump, 1	Dump: 0.100	0.500 min	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	within this Bas Material Desc – Unadjusted E	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02	ime (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)	0.500 min Source	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	within this Bas Material Desc Unadjusted E Material up Dumped by	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02	ime (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.020	0.500 min Source (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 vnership of trucks and eration -0.04	ime (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Bas Material Desc – Unadjusted E <u>Material up</u> Dumped by Common ov	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Tri to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00	ime (load, dump, 1 2 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040	0.500 minu Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 vnership of trucks and eration -0.04 get 0.00 Net Cycle Ti	ime (load, dump, r 2 d loaders -0.04 me Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040	.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 0.040 0.040	0.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 2 d loaders -0.04 me Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040	.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 0.040 0.040	0.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op Nominal tar	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 0.040 0.040	0.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op Nominal tar	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 -0.040 0.460 1.480	0.500 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Selected Value v 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	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op Nominal tar . 0.50 . 1.480	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 vnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.460 1.480	0.500 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500	utes
Selected Value v 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	within this Bas Material Desc Unadjusted E Material up Dumped by Common ov Constant op Nominal tar : 0.50 : 1.480 : 0.90	sic Rating: NA cription: Maneuver: NA Basic Loader Cycle Ti to 1/8" diameter 0.02 truck 0.02 wnership of trucks and eration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes	ime (load, dump, r 2 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.020 0.040 -0.040 0.000 -0.040 0.460 1.480 1.480 I for site altitude: I for site altitude:	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.480 0.900	 Minute

	Haul Rou	te:							
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
-	1	850.0	00	20.00	3.00	23.00	331	2.572	
L				1		Haul Time:	2.572	minutes	
	Return Re	oute:				-			
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
[1	850.0	00	-20.00	3.00	-17.00	1170	0.908	
						Return Time:	0.908	minute	es
					Total True	ck Cycle Time:	6.360	minute	s
L	oading Too	ol unit							
	0	uction	573.33	LCY/Hour		Adjusted for j	ob efficiency:	475.87	LCY/Hour
Truck	Unit Produ	uction							
			178.49	LCY/Hour		Adjusted for j	ob efficiency:	148.15	LCY/Hour
Optima	al No. of T	rucks:	3	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truck	team production	on: 296	.29 LCY	//Hour
						r team production		.29 LCY	/Hour
				Adjusted multip	le truck/loade	r team production	on: 296	.29 LCY	/Hour
	JOB TI	ME AI	ND COST						
	Fleet	size:	1	Team(s)	Т	otal job time:	0.92	e He	ours
	Unit	cost: _	\$2.632	/LCY	7	Total job cost:	\$720)	

	sk description:		Grade	e New Cros	s Mine Deci	ine slope		
e: _(Cross Gold Mine	9		Per	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PR	ROJECT IDEN	TIFIC	CATIO	N				
	Task #: 011 Date: 1/26/20 User: AME	.022		State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-011
	Agency or	organi	zation n	ame: DI	RMS			
HO	OURLY EQUIE	PMEN	NT CO	<u>ST</u>				
	Basic Machine:	Cat I	D7R DS	XR Series	Π			
	Horsepower:	240						
	Blade Type:	Semi	i-Univer	sal				
	Attachment:	NA						
	Shift Basis:	1 per						
	Data Source:	(CRO	G)					
Co	st Breakdown:							
<u>co</u>	<u>st Dicardo wii</u> .					Utilization %		
0	wnership Cost/Ho	our:			\$81.02	NA		
	Operating Cost/Ho				\$79.33	100		
	oper own. Cost/Ho				\$0.00	NA		
-	Ripper op. Cost/Ho				\$0.00	0		
	Operator Cost/Ho				\$40.04	NA		
	1							
		_			φ10.01	1471		
	tal unit Cost/Hour tal Fleet Cost/Hou		\$200.3 \$200.3		\$10.01			
To	tal Fleet Cost/Hou	ur: _	\$200.3		\$10.01			
To		ur: _	\$200.3		\$10.01			
Тоі <u>М</u> л	tal Fleet Cost/Hou ATERIAL QUA	ar:	\$200.3					
Тоі <u>М</u> л	tal Fleet Cost/Hou ATERIAL QUA nitial Volume:	ır:	\$200.3					
Tot <u>M</u>	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor:	ur:	\$200.39 TIES					
Tot <u>M</u> Ii I	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume:	nr:	\$200.3 TIES LCY	9				
Tot <u>M</u> It I	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated	ur:	\$200.3 TIES LCY e:	9 150' L x	 40' H - cut a	nd fill - vertical slope to 2	H:1V	
Tot <u>M</u> It I	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume:	ur:	\$200.3 TIES LCY e:	9	 40' H - cut a		H:1V	
Tot <u>M</u> It Sou Sou	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated surce of estimated surce of estimated surce surce of estimated surce surc	ur:	\$200.3 TIES LCY e: factor:	9 150' L x	 40' H - cut a		H:1V	
Tot <u>M</u> It Sou Sou	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated	ur:	\$200.3 TIES LCY e: factor:	9 150' L x	 40' H - cut a		H:1V	
Tot ML It Sou Sou HC	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated so urce of estimated so DURLY PROD	ur:	\$200.3 TIES LCY e: factor:	9 150' L x Cat Hand	 40' H - cut a		H:1V	
Tot <u>M</u> If Sou Sou Sou Av	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated succe of estimated succe of DURLY PROD verage push distance	nr:	\$200.3 TIES LCY e: factor: ION	9 150' L x Cat Hand 50 feet	 40' H - cut a book		<u>H:1V</u>	
Tot ML If Sou Sou Sou Sou Avu Un	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated so urce of estimated so DURLY PROD	ar:	\$200.3 TIES LCY e: factor: ION	9 150' L x Cat Hand 50 feet 1,022.9 LC	 40' H - cut a lbook		H:1V	
Tot ML If Sou Sou Sou Sou Avu Un	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated succe of estimated succe of estimated successions DURLY PROD verage push distance adjusted hourly pro	ar:	\$200.3 TIES LCY e: factor: ION	9 150' L x Cat Hand 50 feet 1,022.9 LC	 40' H - cut a lbook	nd fill - vertical slope to 2	H:1V	
Tot ML It Sou Sou Sou Av Un Ma Av	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated succe of estimated succes of esti	III:	\$200.3 TIES LCY e: factor: ION ion:	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa	 40' H - cut a lbook Y/hr	nd fill - vertical slope to 2	<u>H:1V</u>	
Tot ML It Sou Sou Sou Sou Av Un Ma Av	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated a urce of estimated a OURLY PROD rerage push distand tadjusted hourly put aterials consistency	III:	\$200.3 TIES LCY e: factor: ION	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa	 40' H - cut a lbook Y/hr	nd fill - vertical slope to 2	<u>H:1V</u>	
Tot ML In Sou Sou Sou Av Un Ma Av Av Av	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated succe of estimated succes of esti	III:	\$200.3 TIES LCY e: factor: ion: -5 % 9,700 f	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa	 40' H - cut a lbook Y/hr	nd fill - vertical slope to 2	<u>H:1V</u>	
Tot ML In Sou Sou Av Un Ma Av Av Ma	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated a urce of estimated a DURLY PROD rerage push distance adjusted hourly pro- aterials consistence rerage push gradie rerage site altitude	III:	\$200.3 TIES LCY e: factor: ION 9,700 f 2,650 I	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa eet bs/LCY	 40' H - cut a lbook Y/hr	nd fill - vertical slope to 2	H:1V	
Tot ML In Sou Sou Sou Av Un Ma Av Av Av Ma We	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated a urce of estimated a DURLY PROD rerage push distance adjusted hourly pro- aterials consistency rerage push gradie rerage site altitude aterial weight: eight description:	III:	\$200.3 TIES LCY e: factor: ION 9,700 f 2,650 l Decom	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa eet bs/LCY	40' H - cut a book Y/hr icted fill or e	nd fill - vertical slope to 2 mbankment 0.9	<u>H:1V</u>	
Tot ML In Sou Sou Sou Av Un Ma Av Av Av Ma We	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated of urce of estimated of turce of estimated of DURLY PROD rerage push distance adjusted hourly pro- aterials consistence rerage push gradie rerage site altitude aterial weight: eight description: D Condition Correct	IIT:	\$200.3 TIES TIES LCY e: factor: ion: 	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa eet bs/LCY posed rock	40' H - cut a book Y/hr cted fill or e	nd fill - vertical slope to 2 mbankment 0.9	<u>H:1V</u>	
Tot ML In Sou Sou Sou Av Un Ma Av Av Av Ma We	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated succe of estimated succe of estimated successive ource of estimated successive parage push distance adjusted hourly push aterials consistency rerage push gradie rerage site altitude aterial weight: eight description: <u>o Condition Corrector</u> Oper	III:	\$200.3 TIES TIES LCY e: factor: ion: -5 % 9,700 f 2,650 l Decom Factor kill:	9 <u>150' L x</u> Cat Hand 50 feet 1,022.9 LC <u>Compa</u> eet bs/LCY posed rock	40' H - cut a book Y/hr icted fill or e	 nd fill - vertical slope to 2 mbankment 0.9 , 75% Earth (EXCL.)	<u>H:1V</u>	
Tot ML In Sou Sou Sou Av Un Ma Av Av Av Ma We	tal Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor: Loose volume: urce of estimated of urce of estimated of turce of estimated of DURLY PROD rerage push distance adjusted hourly pro- aterials consistence; rerage push gradie rerage site altitude aterial weight: eight description: <u>D Condition Correc</u>	III:	\$200.3 TIES TIES LCY e: factor: factor: 10N 	9 150' L x Cat Hand 50 feet 1,022.9 LC Compa eet bs/LCY posed rock 1 0	 40' H - cut a lbook Y/hr .cted fill or e - 25% Rock 000	nd fill - vertical slope to 2 mbankment 0.9	H:1V	

Job efficienc	ey: 0.830	(1 SHIFT/DAY)
Spoil pil	le: 1.000	(DOZ-OC)
Push gradier	nt: 1.115	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	ne: 1.000	(PAT)
Net correctio	n:0.8676	
Adjusted unit production:	887.47 LCY/hr	
Adjusted fleet production:	887.47 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.226/LCY

Total job time:	3.13 Hours
Total job cost:	\$627

Page 1 of 3

TRUCK/LOADER TEAM WORK

Site: Cross Gold Min	ıe	Permit Act	ion: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
PROJECT IDE	NTIFICATION	I				
Task #: 012		State: Color	ado	At	breviation: No	ne
		County: Bould	ler		Filename: M4	10-012
User: AMI	<u> </u>					
Agency of	r organization nar	me: DRMS				
HOURLY EQU	IPMENT COS	Г		Shift bas	sis: <u>1 per day</u>	
		_	Equipment Descri			
	Truck Loader Tea		t 725			
	nont Equinment I		АТ 950Н			
Sup	Port Equipment -I D-		t D7R DS XR Seri	es II		
Road N	Aaintenance – Mot	or Grader: CA	T 14M			
	-Wa	ater Truck: Wa	ater Tanker, 3,500	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support	Equipment	Maintenan	ce Equipment
COSt Di cuildo (All	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$146.85	\$111.12	NA	\$180.55	\$162.87	\$31.75
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$404.82	Support:	\$180.55	Maint:	\$194.62
Total work team co)				
Initial volum Loose volum				factor: <u>1.215</u>		
	ource of estimated e of estimated swe Material Purch Te	ell factor: Cat		soil		
HOURLY PRO	DDUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (we</u> Material			Pounds/LCY			

Truck/Loader Worksheet Cont'd		Task # 012			Page 2 of 3	
Payload Capacity:	32.50	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final	Truck Volum	e Based on Number of	Loader Passes:	18.92	LCY	
Loading Tool Capacity			D		r A	
	1 200		Buc	ket Size Class: <u>N</u>	A	_
Rated Capacity:	4.300	LCY (heaped)		1000() 1 100		-
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	0-120%) 1.100		-
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:	_	Sit	te Altitude (ft.):	<u>9700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Numb	er of Loading Tool Pas	ses Required to	Fill Truck:	4 r	basses
Excavators and Front Shove		6	1	<u> </u>	1	
Machine Cycle Time v	s. Job Conditi	on Rating: NA				
Selected Value	within this Bas	sic Rating: NA				
Track Loaders –	Material Desc	cription:				
Cycle Time Elements (min.):						
Load: NA]	Maneuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted E	Basic Loader Cycle Tin	ne (load, dump, i	maneuver): 0	.500 minu	ites
Cycle Time Factors				Factor (min.)	Source	_
Material:	Material up	to 1/8" diameter 0.02		0.020	(Cat HB)	
Stockpile:	Dumped by			0.020	(Cat HB)	_
Truck Ownership:		wnership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:		eration -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal tar			0.000	(Cat HB)	_
		Net Cycle Tim	•	-0.040	minutes	
		Adjusted Loade		0.460	minutes	
		Net Load Ti	me per Truck:	1.480	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time	: 0.50	Minutes	Adjusted	for site altitude:	0.500	Minute
Truck Load Time	: 1.480	Minutes	Adjusted	for site altitude:	1.480	Minute
k Maneuver and Dump Time	: 0.90	Minutes	Adjusted	for site altitude:	0.900	Minute
Truck Travel (Haul & Return) Time:	Road Condition: <u>F</u>	irm, smooth, rol	lling, dirt/lt. surface	d, watered,	
maintained 3.0	<u>, 1 mlt.</u>	Road Condition. <u>r</u>	<u>1111, 51100til, 101</u>		<u>u, waititu,</u>	

Haul Rou								
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	850.0	0	20.00	3.00	23.00	331	2.572	
					Haul Time:	2.572	minutes	
Return Ro	oute:				-			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	850.0	0	-20.00	3.00	-17.00	1170	0.908	
					Return Time:	0.908	minutes	
				Total Tru	ck Cycle Time:	6.360	minutes	
Loading Too								
Produ	-	573.33	LCY/Hour		Adjusted for j	ob efficiency:	475.87	LCY/Hour
Truck Unit Produ	iction _	178.49	LCY/Hour		Adjusted for j	ob efficiency:	148.15	_ LCY/Hour
Optimal No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 296	.29 LCY/F	Iour
					er team production		.29 LCY/H	Iour
			Adjusted multip	le truck/loade	er team production	on: 296	.29 LCY/H	Iour
JOB TIM	ME AN	D COST						
Fleet	size:	1	Team(s)	r.	Fotal job time:	1.31	Hou	rs
Unit	cost:	\$2.632	/LCY		Total job cost:	\$1,02	24	

1.	ask description:	Grade ou	t new r	oad			
e: _	Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
P	ROJECT IDENTIFI	CATION					
	Task #: 013		State:	Colorado		Abbreviation:	None
	Date: 1/28/2022	C	ounty:	Boulder		Filename:	M410-013
	User: AME						
	Agency or organ	nization nam	e: DR	RMS			
H	OURLY EQUIPME	NT COST					
	Basic Machine: Cat	D7R DS XF	R Series	II			
	Horsepower: 240						
	• 1	ni-Universal					
	Attachment: NA						
		er day					
	Data Source: (CR	(G)					
<u>C</u>	ost Breakdown:				Litilization 0/		
(Ownership Cost/Hour:			\$81.02	<u>Utilization %</u> NA		
	Operating Cost/Hour:			\$79.33	100		
	ipper own. Cost/Hour:			\$0.00	NA		
	Ripper op. Cost/Hour:			\$0.00	0		
-	Operator Cost/Hour:			\$40.04	NA		
	- F						
					1111		
	otal unit Cost/Hour:	\$200.39					
	otal unit Cost/Hour: otal Fleet Cost/Hour:	\$200.39 \$200.39					
То	otal Fleet Cost/Hour:	\$200.39					
То		\$200.39					
To M	otal Fleet Cost/Hour:	\$200.39 ITIES					
To M	otal Fleet Cost/Hour:	\$200.39 <u>ITIES</u> 3					
To M	otal Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 2,333 Swell factor: 1.123	\$200.39 <u>ITIES</u> 3					
То <u>М</u>	Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625	\$200.39 ITIES 3 5 5 LCY	land one				
To M So	Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volume	\$200.39 ITIES 3 5 5 5 LCY ne:	-	rator's volur	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M So	Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625	\$200.39 ITIES 3 5 5 5 LCY ne:	sed ope	rator's volur		e x 6 ft H	
To M So So	Initial Volume: 2,333 Swell factor: 1.122 Loose volume: 2,622 Durce of estimated volur	\$200.39 ITIES 3 5 5 LCY ne: <u>U</u> factor: <u>C</u>	-	rator's volur		e x 6 ft H	
To <u>M</u> So So <u>H</u>	Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volume Durce of estimated swell OURLY PRODUCT	\$200.39 ITIES 3 5 5 LCY ne: <u>U</u> factor: <u>C</u> CION	at Hand	rator's volur		e x 6 ft H	
To <u>M</u> So So <u>H</u>	Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volur Durce of estimated swell OURLY PRODUCT verage push distance:	\$200.39 ITIES 3 5 5 CTON 50 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	at Hand	rator's volur		e x 6 ft H	
To <u>M</u> So So <u>H</u>	Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volume Durce of estimated swell OURLY PRODUCT	\$200.39 ITIES 3 5 5 CTON 50 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	at Hand	rator's volur		e x 6 ft H	
To <u>M</u> So So <u>H</u> Ur	Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volur Durce of estimated swell OURLY PRODUCT verage push distance:	\$200.39 ITIES 3 5 5 CY factor: <u>C</u> CION 50 f ction: <u>1,02</u>	eet 22.9 LC	rator's volur	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To <u>M</u> So So <u>H</u> Ui M	Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,625 Durce of estimated swell 000000000000000000000000000000000000	\$200.39 ITIES 3 5 5 5 5 5 5 6 7 6 7 6 7 6 7 6 7 6 7	eet 22.9 LC	 ibook Y/hr	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To <u>M</u> Sco Sco <u>H</u> Un M Ar	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,623 Durce of estimated volume 2,623 Durce of estimated swell 1.124 Durce of estimated swell 1.124	\$200.39 ITIES 3 5 5 5 5 5 5 5 5 5 5 5 5 5	eet 22.9 LC	 ibook Y/hr	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To <u>M</u> Sco Sco <u>H</u> Un M Ar	Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,625 Durce of estimated swell 000000000000000000000000000000000000	\$200.39 ITIES 3 5 5 5 5 5 5 6 7 6 7 6 7 6 7 6 7 6 7	eet 22.9 LC	 ibook Y/hr	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M So So M Un M A	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,623 Durce of estimated volume 2,623 Durce of estimated swell 1.124 Durce of estimated swell 1.124	\$200.39 ITIES 3 5 5 5 5 5 5 5 5 5 5 5 5 5	eet 22.9 LC	 ibook Y/hr	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M So So <u>H</u> Ui M A ¹ A ¹ M	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,623 Durce of estimated swell 2,624 Durce of estimated swell 2,624 Durce of estimated swell 2,625 Durce of estimated swell 2,624 Durce of estimated swell 2,625 Durce of estimatesta swell 2,625	\$200.39 ITIES 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	eet 22.9 LC Consol	 ibook Y/hr idated stockj	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M Sco Sco H Ar Un M Ar Ar M W	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volum Durce of estimated swell COURLY PRODUCT verage push distance: nadjusted hourly product laterials consistency deserverage site altitude: verage fush gradient: verage site altitude: laterial weight: Veight description:	\$200.39 ITIES 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 100 50 100 50 100 50 100 50 100 50 100 50 100 50	eet 22.9 LC Consol	 ibook Y/hr	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M Sco Sco H Ar Un M Ar Ar M W	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volum Durce of estimated swell COURLY PRODUCT verage push distance: nadjusted hourly product laterials consistency destruction: verage fush gradient: verage site altitude: laterial weight: Veight description: ob Condition Correction	\$200.39 ITIES 3 5 5 5 CY factor: <u>C</u> CION cription: <u>50 f</u> cription: <u>50 f</u> 2,650 lbs/l Decompos Factor	eet 22.9 LC Consol	rator's volur book Y/hr idated stockj	ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M Sco Sco H Ar Un M Ar Ar M W	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.123 Loose volume: 2,623 Durce of estimated volume 2,623 Durce of estimated swell 2,623 OURLY PRODUCT 2,623 Verage push distance: 1,123 Naterials consistency deserverage site altitude: 2,123 Verage push gradient: 2,233 Verage site altitude: 2,233 Laterial weight: 2,233 Veight description: 2,243 Description: 2,243	\$200.39 ITIES 3 5 6	eet 22.9 LC Consol		ne; 185 ft L x 50 ft W base	e x 6 ft H	
To M So So M M M A M M M W	Initial Fleet Cost/Hour: Initial Volume: 2,333 Swell factor: 1.125 Loose volume: 2,625 Durce of estimated volum Durce of estimated swell COURLY PRODUCT verage push distance: nadjusted hourly product laterials consistency destruction: verage fush gradient: verage site altitude: laterial weight: Veight description: ob Condition Correction	\$200.39 ITIES 3 5 5 5 5 5 5 5 5 5 5 5 5 5	Consol Consol LCY eed rock	rator's volur book Y/hr idated stockj	ne; 185 ft L x 50 ft W base	e x 6 ft H	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6185	
Adjusted unit production: 63	32.66 LCY/hr	
Adjusted fleet production: 6 .	32.66 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.317/LCY
Total ich time	1 15 Hours

ırs

Task description:	Retopsoil new road area			
e: Cross Gold Mine	Permit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENTIF	ICATION			
Task #: 014 Date: 1/28/2022 User: AME	State: Colorado County: Boulder		Abbreviation: Filename:	None M410-014
Agency or organ	nization name: DRMS			
HOURLY EQUIPME				
Basic Machine: Cat Horsepower: 240	t D7R DS XR Series II			
	ni-Universal	<u> </u>		
Attachment: NA				
	er day			
Data Source: (CH	RG)			
Cost Breakdown:				
COSt DICARGOWII.		Utilization %		
	¢81.02			
Ownership Cost/Hour:	\$81.02	NA		
Operating Cost/Hour:	\$79.33	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$40.04	NA		
-		1		
Total unit Cost/Hour:	\$200.39			
Total Fleet Cost/Hour:	\$200.39			
MATEDIAL OUANT	WTIES			
MATERIAL QUANT	THES			
Initial Volume: 2,19	4			
Swell factor: 1.21				
Loose volume: 2,66	6 LCY			
Source of estimated volu	me: 1.36 ac x 12 in tonsoi	l; use adjacent topsoil berr	ne	
	1	i, use adjacent topson ben	115	
Source of estimated swell	Tactor: Cat Handbook			
HOURLY PRODUCT	ΓΙΟΝ			
Average push distance:	50 feet			
Unadjusted hourly produce	ction: 1,022.9 LCY/hr			
5 • I				
Materials consistency des	scription: Consolidated stock	pile 1.0		
······································	1			
Average push gradient:	0 %			
Average site altitude:	9,700 feet			
Average site annude.	9,700 leet			
Material weight:	1,600 lbs/LCY		_	
Weight description:	Top Soil			
Job Condition Correction	•	Source		
Operator		(EXCL.)		
Material consist		(CAT HB)		
Dozing me		(50% SL)		
Visit	bility: 1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9190	
Adjusted unit production: 94	0.05 LCY/hr	
Adjusted fleet production: 94	0.05 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.213/LCY

Total job time:	2.84 Hours
Total job cost:	\$568

	ask description:		Orau		R Slope (ind	t does not overlap new ro	Jau)	
: _	Cross Gold Mine			Per	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
P	ROJECT IDEN	TIFI	CATIO	N				
	Task #: 015			State:	Colorado		Abbreviation:	None
	Date: $1/28/20$	022		County:	Boulder		Filename:	M410-015
	User: AME	022		county.	Doulder		-	M110 013
	Agency or o	organi	ization n	ame: DI	RMS			
H	OURLY EQUIP	PME	NT CO	<u>ST</u>				
	Basic Machine:	Cat	D7R DS	XR Series	Π			
	Horsepower:	240						
	Blade Type:		i-Univer	sal				
	Attachment:	NA						
	Shift Basis:	1 pe	r day					
	Data Source:	(ĈR						
<u>C</u>	ost Breakdown:							
						<u>Utilization %</u>		
	Ownership Cost/Ho				\$81.02	NA		
	Operating Cost/Ho				\$79.33	100		
	ipper own. Cost/Ho				\$0.00	NA		
	Ripper op. Cost/Ho	111111			\$0.00	0		
		-						
	Operator Cost/Ho	-			\$40.04	NA		
	-	our:	\$200.3	9		NA		
То	Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hou	our:	\$200.3 \$200.3			NA		
То	otal unit Cost/Hour	our:				NA		
To To	otal unit Cost/Hour otal Fleet Cost/Hou	our: _ : _ ir: _	\$200.3			NA		
To To <u>M</u>	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA	our: :: ir:	\$200.3 [TIES			NA		
To To <u>M</u>	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume:	our: :: ur: ANTI 2,042	\$200.3 [TIES			NA		
To To M	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor:	our: :: ur: <u>ANTI</u> 2,042 1.215	\$200.3			NA		
To To M	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor:	our: :: ur: <u>ANTI</u> 2,042 1.215	\$200.3 [TIES			NA		
To To <u>M</u>	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor:	our: : r: <u>ANTI</u> 2,042 <u>1.215</u> 2,481	\$200.3 TIES LCY	9	\$40.04	NA		
To To M	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor: Loose volume:	our:	\$200.3 TTIES LCY ne:	9	\$40.04			
To To M	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor: Loose volume:	our:	\$200.3 TTIES LCY ne:	9 	\$40.04			
To To M	otal unit Cost/Hour otal Fleet Cost/Hou IATERIAL QUA Initial Volume: Swell factor: Loose volume:	our:	\$200.3 TIES LCY he: factor:	9 	\$40.04			
To To M So So <u>H</u>	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated volume of estimated so Durce of estimated so	our:	\$200.3 TIES LCY he: factor: ION	9 180 ft L 3 Cat Hand	\$40.04			
To To M So So H A	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated volume of estimated so COURLY PRODI	Dur:	\$200.3 TIES LCY he: factor: ION	9 180 ft L 2 Cat Hand	\$40.04			
To To M So So So H A	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated so COURLY PROD verage push distance nadjusted hourly pr	Dur:	\$200.3 (TIES LCY ne: factor: ION	9 180 ft L 2 Cat Hand 100 feet 714.3 LCY	\$40.04 	 de 1:1 to 3:1		
To To <u>M</u> So So <u>H</u> A	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated y burce of estimated s OURLY PROD verage push distance nadjusted hourly pr laterials consistency	Dur:	\$200.3 THES LCY he: factor: ION tion:	9 180 ft L 2 Cat Hand 100 feet 714.3 LCY	\$40.04	 de 1:1 to 3:1		
To To M So So So H A U U M A	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated y burce of estimated y burce of estimated s COURLY PRODI verage push distance nadjusted hourly pr laterials consistency	Dur:	\$200.3 TIES LCY he: factor: ION tion: cription: -5 %	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY Consol	\$40.04 	 de 1:1 to 3:1		
To To So So <u>H</u> A ³ U: M	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated y burce of estimated s OURLY PROD verage push distance nadjusted hourly pr laterials consistency	Dur:	\$200.3 THES LCY he: factor: ION tion:	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY Consol	\$40.04 	 de 1:1 to 3:1		
To To M So So <u>H</u> U: M A	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated y burce of estimated y burce of estimated s COURLY PRODI verage push distance nadjusted hourly pr laterials consistency	Dur:	\$200.3 TIES LCY he: factor: ION tion: p;700 f	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY Consol	\$40.04 	 de 1:1 to 3:1		
To To So So <u>H</u> U: M A ¹ A ¹ M	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated volume of estimated so COURLY PRODI verage push distance nadjusted hourly present for the standard solution of the standard solut	Dur:	\$200.3 (TIES) LCY le: factor: ION tion: cription: 9,700 f 3,300 1	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY, Consol Feet bs/LCY	\$40.04 	 de 1:1 to 3:1 juile 1.0		
To To So So <u>H</u> Ar U: M Ar Ar M W	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated volume of estimated volume of estimated source of	Dur:	\$200.3 TIES LCY he: factor: ION tion: p,700 f 3,300 1 Decom	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY, Consol Feet bs/LCY	\$40.04 	 de 1:1 to 3:1 bile 1.0		
To To So So <u>H</u> A ¹ M A ¹ M W	otal unit Cost/Hour otal Fleet Cost/Hour Initial Fleet Cost/Hour Initial Volume: Swell factor: Loose volume: Durce of estimated volume Durce of estimated volume OURLY PROD verage push distance valerials consistency verage push gradier verage site altitude: laterial weight:	Dur:	\$200.3 TIES LCY he: factor: ION tion: ription: 9,700 f 3,300 1 Decom Factor	9 180 ft L 2 Cat Hand 100 feet 714.3 LCY, Consol eet bs/LCY posed rock	\$40.04 	 de 1:1 to 3:1 juile 1.0		
To To So So <u>H</u> A ¹ M A ¹ M W	otal unit Cost/Hour otal Fleet Cost/Hour IATERIAL QUA Initial Volume: Swell factor: Loose volume: Durce of estimated volume of estimated set. OURLY PRODU verage push distance nadjusted hourly prover age push gradien verage push gradien verage site altitude: laterial weight: Veight description: ob Condition Correct	our:	\$200.3 TIES LCY he: factor: ION tion: ription: 9,700 f 3,300 1 Decom Factor kill:	9 180 ft L 3 Cat Hand 100 feet 714.3 LCY Consol Feet bs/LCY posed rock	\$40.04 \$40.04 \$40.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	de 1:1 to 3:1 pile 1.0 , 25% Earth Source		
To To So So <u>H</u> A ¹ M A ¹ M W	otal unit Cost/Hour otal Fleet Cost/Hour otal Fleet Cost/Hour Initial Volume: Swell factor: Loose volume: Durce of estimated volume: burce of estimated volume: Durce of estimated volume: Outreage push distance Verage push gradient verage push gradient verage site altitude: Iaterial weight: Veight description: Ob Condition Correct Operation	our:	\$200.3 TIES LCY ne: factor: ION tion: tion: ription: 9,700 f 3,300 1 Decom Factor kill: ncy:	9 180 ft L : Cat Hand 100 feet 714.3 LCY Consol eet bs/LCY posed rock 1 1	\$40.04 \$40.04 \$40.04 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	 de 1:1 to 3:1 pile 1.0 , 25% Earth (EXCL.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7740	
Adjusted unit production: 5	52.87 LCY/hr	
Adjusted fleet production: 5	52.87 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.362/LCY
Total job time:	4.49 Hours

Total job time. 44	J 110015
Total job cost: \$89	9

Task description:	Keto	pson waste i	ock area (u	hat does not overlap new	Tuau)	
Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENT	IFICATIO	ON				
Task #: 016		State:	Colorado		Abbreviation:	None
Date: 1/28/202 User: AME	22	County:	Boulder		Filename:	M410-016
Agency or or	ganization	name: DR	MS			
HOURLY EQUIP	MENT CO	DST				
		S XR Series	П			
	240	5 AR Berles				
	Semi-Unive	ersal				
••	NA					
	1 per day					
	(CRG)			<u></u>		
Data Source.	(CKU)			<u> </u>		
Cost Breakdown:						
				Utilization %		
Ownership Cost/Hou	r:		\$81.02	NA		
Operating Cost/Hou			\$79.33	100		
Ripper own. Cost/Hou			\$0.00	NA		
Ripper op. Cost/Hou			\$0.00	0		
\mathbf{K}	1.		\$0.00	0		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour	\$200.3		\$40.04	NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA	\$200.3 \$200.3 NTITIES			NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: _9	\$200.3 \$200.3 \$200.3 NTITIES 04			NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1	\$200.3 \$200.3 \$200.3 NTITIES 04 .215			NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1	\$200.3 \$200.3 \$200.3 NTITIES 04			NA		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39	\$40.04 24 in topsoi			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo	\$200.3 \$200.3 \$200.3 NTITIES 04 .215 .098 LCY blume: vell factor:	39 0.28 ac x	\$40.04 24 in topsoi			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated sw	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5	39 0.28 ac x	\$40.04			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated sw HOURLY PRODU	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/	\$40.04 24 in topsoi book hr			
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5 \$200.5	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c	\$40.04 24 in topsoi book hr	 1		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude:	\$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet	\$40.04 24 in topsoi book hr	 1		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency	\$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY	\$40.04 24 in topsoi book hr	 1		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description:	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY	\$40.04 24 in topsoi book hr	1		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY oil	\$40.04 \$40.04 \$ 24 in topsoi book hr consolidated	1 stockpile 1.1 <u></u>		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY oil 1.	\$40.04 	1 		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat	\$200.3 \$200.5 \$200.3 \$200.5 \$200.3 \$200.5	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY oil 1. 1.	\$40.04 	I stockpile 1.1		
Operator Cost/Hou Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA Initial Volume: 9 Swell factor: 1 Loose volume: 1 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat Material cons Dozing	\$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3 \$200.3	39 0.28 ac x Cat Hand 150 feet 518.9 LCY/ : Partly c feet lbs/LCY oil 1. 1. 1. 1. 1.	\$40.04 	1 		

Job efficienc	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.700	(FND-MF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigl	nt: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correctio	on: 1.0109	
Adjusted unit production:	524.56 LCY/hr	
Adjusted fleet production:	524.56 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.382/LCY

Total job time:	2.09 Hours
Total job cost:	\$420

Task description: Retopsoil Cross Mine Adit area	
e: Cross Gold Mine Permit Action: AM-02 Bond Estimate 2022 Permit/Job	b#: <u>M1977410</u>
PROJECT IDENTIFICATION	
Task #:017State:ColoradoAbbreviationDate:1/28/2022County:BoulderFilenameUser:AMEFilename	
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST	
Basic Machine: Cat D7R DS XR Series II	
Horsepower: 240	
Blade Type: Semi-Universal	
Attachment: NA	
Shift Basis: 1 per day	
Data Source: (CRG)	
Cost Breakdown:	
Utilization %	
Ownership Cost/Hour: \$81.02 NA	
Operating Cost/Hour: \$79.33 100	
Ripper own. Cost/Hour:\$0.00NA	
Ripper own. Cost/Hour:\$0.00IVA\$0.000	
Operator Cost/Hour: \$40.04 NA	
Total unit Cost/Hour: \$200.39	
Total Fleet Cost/Hour: \$200.39	
MATERIAL QUANTITIES	
Initial Volume: 20	
Swell factor: 1.215	
Loose volume: 24 LCY	
Source of estimated volume: 522 sq ft x 12 in topsoil	
Source of estimated swell factor: Cat Handbook	
HOURLY PRODUCTION	
Average push distance: 200 feet	
Unadjusted hourly production: 410.8 LCY/hr	
Materials consistency description: Consolidated stockpile 1.0	
Average push gradient: 0 %	
Average site altitude: 9,700 feet	
Material weight: 1,600 lbs/LCY	
Material weight: 1,600 lbs/LCY Weight description: Top Soil	_
Weight description: Top Soil	
Weight description: Top Soil Job Condition Correction Factor Source	_
Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 1.000	
Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 1.000 (EXCL.) Material consistency: 1.000 (CAT HB)	_
Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 1.000	

Job efficiency	: 0.830	(1 SHIFT/DAY)
Spoil pile	.: 0.700	(FND-MF)
Push gradient	: 1.000	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	: 1.438	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.9190	
Adjusted unit production:	377.53 LCY/hr	
Adjusted fleet production:	377.53 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.531/LCY
Total ich time	0 06 Hours

Total job time:	0.06 Hours
Total job cost:	\$13

Та	ask description:	Retopsoil Idal	10 Tunnel port	al area		
: _	Cross Gold Mine		Permit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
P	ROJECT IDENTIFI	CATION				
	Task #: 018 Date: 1/28/2022 User: AME	State			Abbreviation: Filename:	None M410-018
	Agency or organ	nization name:	DRMS			
т						
<u> </u>	OURLY EQUIPME Basic Machine: Cat	D7R DS XR Seri	es II			
	Horsepower: 240					
	L	ni-Universal				
	Attachment: NA					
	Shift Basis: 1 pe	er day				
	Data Source: (CR					
C	ost Breakdown:					
	ost Dicakuowii.			Utilization %		
(Ownership Cost/Hour:		\$81.02	NA		
	Operating Cost/Hour:		\$79.33	100		
	ipper own. Cost/Hour:		\$0.00	NA		
	Ripper op. Cost/Hour:		\$0.00	0		
	Operator Cost/Hour:		\$40.04	NA		
	· ·		+ • • • • •	14/1		
	otal unit Cost/Hour:	\$200.39				
Τc	otal Fleet Cost/Hour:	\$200.39				
]	IATERIAL QUANT Initial Volume: 6 Swell factor: 1.215 Loose volume: 7 LC	5 Y				
	ource of estimated volum ource of estimated swell		ft x 12 in topso indbook			
H	OURLY PRODUCT	TION				
	verage push distance: nadjusted hourly produc	300 feet etion: 311.1 LC	CY/hr			
Μ	aterials consistency des	cription: Con	solidated stock	pile 1.0		
A	verage push gradient:	0 %				
	verage site altitude:	9,700 feet				
A	verage site altitude: aterial weight:	9,700 feet 1,600 lbs/LCY			_	
Av M	C				-	
Av M W	aterial weight:	1,600 lbs/LCY Top Soil		Source	-	
Av M W	aterial weight: Veight description: <u>b Condition Correction</u> Operator S	1,600 lbs/LCY Top Soil <u>Factor</u> Skill:	1.000	Source (EXCL.)	-	
Av M W	aterial weight: Veight description: <u>b Condition Correction</u> Operator S Material consiste	1,600 lbs/LCY Top Soil <u>Factor</u> Skill: ency:	1.000		-	
Av M W	aterial weight: Veight description: <u>b Condition Correction</u> Operator S	1,600 lbs/LCY Top Soil Factor Skill: ency: thod:		(EXCL.)	-	

Job efficiency:	0.830	(1 SHIFT/DAY)		
Spoil pile:	0.700	(FND-MF)		
Push gradient:	1.000	(CAT HB)		
Altitude:	1.000	(CAT HB)		
Material Weight:	1.438	(CAT HB)		
Blade type:	1.000	(PAT)		
Net correction:	0.9190			
Adjusted unit production: 28	35.90 LCY/hr			
Adjusted fleet production: 28	5.9 LCY/hr			

Fleet size:	1 Dozer(s)
Unit cost:	\$0.701/LCY

Total job time:	0.03 Hours
Total job cost:	\$5

Task description:	Haul an	d replace topsoi	il on Cross Vent S	haft and Escape	way area	
Site: Cross Gold Mir	ie	Permit Act	ion: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
DDA IECT IDE	VTIFIC A TION	T				
PROJECT IDE	NIFICATION	_			1 · .·	
Task #: 019 Date: 1/28/	2022	State: <u>Color</u> County: Bould		Ab	breviation: <u>Nor</u> Filename: M4	ne 10-019
User: AME		County. <u>Bound</u>				10-019
Agency o	r organization nar	ne: DRMS				
	-					
HOURLY EQU	IPMENT COS	<u> </u>			is: <u>1 per day</u>	
	Truck Loader Tea	Translar Ca	Equipment Descri	ption		
	Truck Loader Tea		tt 725 AT 950H			
Sup	oort Equipment -I					
		1	t D7R DS XR Serie	es II		
Road N	Iaintenance – Mot		AT 14M ater Tanker, 3,500	Cal		
	- VV 2	aler Truck. wa	ater Taliker, 5,500	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$146.85	\$111.12	NA	\$180.55	\$162.87	\$31.75
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$404.82	Support:	\$180.55	Maint:	\$194.62
Total work team co)				
Initial volume	e: 21	CCY	Y Swell	factor: 1.215		
Loose volume	26	LCY	Y			
So	ource of estimated	l volume: 550	sq ft x 12 in topsoi	il		
Source	e of estimated swe		Handbook			
	Material Purch	ase Cost: \$0.0 otal Cost: \$0.0				
	10	Jiai CUSI. <u>90.0</u>				
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (we</u> Material Desc		oil	Pounds/LCY			
Rated P			Pounds			

Truck/Loader Worksheet Cont'd		Task # 019		Page 2 of 3			
Payload Capacity:	32.50		LCY				
Truck Bed (volume) Basis:							
Struck Volume:	14.50	LCY					
Heaped Volume:	18.70	LCY					
Average Volume:	16.60	LCY					
Adjusted Volume:	18.70	LCY					
Fina	l Truck Volum	e Based or	Number of	Loader Passes:	18.92	LCY	
Loading Tool Capacity							
				Buc	ket Size Class: N	IA	
Rated Capacity:	4.300	LC	(heaped)				
Bucket Fill Factor:	1.100	Oth	er - rock/dirt	mixtures (100)-120%) 1.100		_
Adjusted Capacity:	4.730	LC	ľ				
Job Condition Corrections	<u>:</u>		Site	e Altitude (ft.):	9700 feet		
	Truck	L	oader	Source			
Altitude Adj:	1.000	1	.000	(CAT HE	3)		
Job Efficiency:	0.830	().830	(CAT HE	3)		
Net Correction:	0.830	().830				
Loading Tool Cycle Time:	Numb	er of Load	ing Tool Pass	ses Required to	Fill Truck:	4 1	basses
Excavators and Front Shove	els:						
Machine Cycle Time	vs. Job Conditi	on Rating:	NA				
Selected Value		U	NA				
Track Loaders –	Material Des	cription:					
Cycle Time Elements (min.)	:						
Load: NA		Maneuver:	NA		Dump: 0.100)	
Wheel and Track Loaders	- Unadjusted I	Basic Load	er Cycle Tim	e (load, dump, 1	maneuver):0	0.500 min	utes
Cycle Time Factors					Factor (min.)	Source	_
Material:	Material up				0.020	(Cat HB)	
Stockpile:	Dumped by				0.020	(Cat HB)	_
Truck Ownership:		-	f trucks and l	oaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant op		04		-0.040	(Cat HB)	
Dump Target:	Nominal tar				0.000	(Cat HB)	_
			•	Adjustment:	-0.040	minutes	
				Cycle Time:	0.460	minutes	
			Net Load Tir	ne per Truck:	1.480	minutes	
<u>Truck Cycle Time:</u>							
Truck Exchange Time	e: 0.50	Minu	tes	Adjusted	for site altitude:	0.500	Minute
Truck Load Time	e: 1.480	Minu	tes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	e: 0.90	Minu	tes	Adjusted	for site altitude:	0.900	Minute
Truck Travel (Haul & Retur maintained 3.0	n) Time:	Road	Condition: <u>Fi</u>	<u>rm, smooth, rol</u>	ling, dirt/lt. surface	d, watered,	

Haul Rou	1							
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	1400.	00	20.00	3.00	23.00	331	4.234	
					Haul Time:	4.234	minutes	
Return Ro								
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1400.	00	-20.00	3.00	-17.00	1170	1.351	
					Return Time:	1.351	minute	S
				Total Tru	ck Cycle Time:	8.465	minute	
Loading Too	Junit							
U	uction	573.33	LCY/Hour		Adjusted for i	ob efficiency:	475.87	LCY/Hour
Truck Unit Produ	-							
		134.11	LCY/Hour		Adjusted for j	ob efficiency:	111.31	LCY/Hour
Optimal No. of Tr	rucks:	4	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 222	.61 LCY	/Hour
					er team production		.61 LCY	//Hour
			Adjusted multip	le truck/loade	er team production	on: 222	.61 LCY	/Hour
		D COST						
JOB TI	ME AN	ND COST						
Fleet	size:	1	Team(s)]	Fotal job time:	0.11	. Ho	ours
Unit	cost:	\$3.504	/LCY	,	Total job cost:	\$89		
					-			

Page 1 of 3

Task description:	Haul an	d replace topsoil	on Potosi Shaft	area		
Site: Cross Gold Min	ie	Permit Action	on: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
PROJECT IDE	NTIFICATION	I				
Task #: 020		<u>-</u> State: Colora	ada	A h	breviation: No	-
	2022	County: Bould		A0		10-020
User: AME						10 020
Agency of	r organization nar	ne: DRMS				
	-			01 : 0 1		
HOURLY EQU	IPMENT COS				is: <u>1 per day</u>	
,	Truck Loader Tea		Equipment Descri 725	iption		
	THUCK LOADER TEA		T 950H			
Supp	oort Equipment -I					
		1	D7R DS XR Seri	es II		
Road M	Iaintenance – Mot		T 14M	C 1		
	- W 2	ater Truck: Wa	ter Tanker, 3,500	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$146.85	\$111.12	NA	\$180.55	\$162.87	\$31.75
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$404.82	Support:	\$180.55	Maint:	\$194.62
Total work team co MATERIAL QU)				
Initial volume		CCY	Cruell	factor: 1.215		
Loose volume		LCY		1actor: <u>1.215</u>		
	ource of estimated		sq ft x 1 ft topsoil Handbook			
500100	Material Purch					
		otal Cost: \$0.00				
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (we Material			Pounds/LCY	,		
	ription: Top So	oil				
Rated P			Pounds			

Truck/Loader Worksheet Cont'd		Task # 020			Page 2 of 3		
Payload Capacity:	32.50		LCY				
Truck Bed (volume) Basis:							
Struck Volume:	14.50	LCY					
Heaped Volume:	18.70	LCY					
Average Volume:	16.60	LCY					
Adjusted Volume:	18.70	LCY					
Final	Truck Volum	e Based on Nurr	ber of Loader Pas	ses: 18.9	D2 LCY		
Loading Tool Capacity							
				Bucket Size Clas	s: NA		
Rated Capacity:	4.300	LCY (hea					
Bucket Fill Factor:	1.100		ck/dirt mixtures	(100-120%) 1.10	0		
Adjusted Capacity:	4.730	LCY					
Job Condition Corrections:	_		Site Altitude (ft.): <u>9700</u> feet			
	Truck	Loader		urce			
Altitude Adj:	1.000	1.000		ΓHB)			
Job Efficiency:	0.830	0.830	(CA	ΓHB)			
Net Correction:	0.830	0.830					
Loading Tool Cycle Time:	Numb	er of Loading To	ool Passes Require	d to Fill Truck:	4	passes	
Excavators and Front Shovel	ls:						
Machine Cycle Time v Selected Value v							
Track Loaders –							
Cycle Time Elements (min.):							
Load: NA	1	Maneuver: NA	A	Dump:	0.100		
Wheel and Track Loaders -	Unadjusted E	Basic Loader Cyc	cle Time (load, du	mp, maneuver):	0.500 m	inutes	
Cycle Time Factors				Factor (m	in.) Source		
Material:	Material up	to 1/8" diameter	: 0.02	0.020	(Cat HB)		
Stockpile:	Dumped by			0.020	· · · · · · · · · · · · · · · · · · ·		
Truck Ownership:			ks and loaders -0.0		· · · · · · · · · · · · · · · · · · ·		
Operation:		eration -0.04		-0.040	· · · · · · · · · · · · · · · · · · ·		
Dump Target:	Nominal tar	0	1 77. 4 1.	0.000			
		•	le Time Adjustme				
			Loader Cycle Tin				
		Net L	oad Time per Truc	ck: 1.480	minutes		
<u>Truck Cycle Time:</u>							
Truck Exchange Time	: 0.50	Minutes	Adjı	isted for site altitu	ıde: 0.500	Minute	
Truck Load Time	: 1.480	Minutes	Adju	isted for site altitu	ıde: 1.480	Minute	
ek Maneuver and Dump Time	: 0.90	Minutes	Adjı	isted for site altitu	ıde: 0.900	Minute	
Truck Travel (Haul & Return maintained 3.0) Time:	Road Condi	tion: <u>Firm, smooth</u>	n, rolling, dirt/lt. s	urfaced, watered,		

Haul Rou		<u>N' 4 </u>	$C = 1 \cdot \langle 0 \rangle$	D 11 D	T . (. 1 D	X7.1'.	Travel	
Seg #	(Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Time (min)	
1	2300.0	00	20.00	3.00	23.00	331	6.953	
					Haul Time:	6.953	minutes	
Return Ro	oute:				_			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	2300.0	00	-20.00	3.00	-17.00	1170	2.087	
					Return Time:	2.087	minutes	
				Total Tru	ck Cycle Time:	11.920	minutes	
	uction	573.33	LCY/Hour		Adjusted for j	ob efficiency:	475.87	LCY/Hour
Truck Unit Produ	- Iction	95.23	LCY/Hour		Adjusted for j	ob efficiency:	79.04	LCY/Hour
Optimal No. of Tr	ucks:	6	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 158	.09 LCY/	Hour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 158	.09 LCY/	Hour
JOB TI	ME AN	D COST						
Fleet	size:	1	Team(s)]	Fotal job time:	0.18	Hor	urs
Unit	cost:	\$4.934	/LCY		Total job cost:	\$144	1	

Page 1 of 3

Site: Cross Gold Min	e	Permit Acti	on: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
PROJECT IDEN	NTIFICATION	I				
Task #: 021 Date: 1/27/ User: AME	2022	State: Color County: Bould		At	breviation: No Filename: M4	ne 10-021
Agency of	r organization na	me: DRMS				
HOURLY EQU	IPMENT COS'	Г		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri		<u> </u>	
r	Fruck Loader Tea		725	ption		
			Т 950Н			
Supp	ort Equipment -I -D		D7R DS XR Seri	es II		
Road M	laintenance – Mot	or Grader: CA	T 14M			
. <u></u>	-Wa	ater Truck: Wa	ter Tanker, 3,500	Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
6Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$146.85	\$111.12	NA	\$180.55	\$162.87	\$31.75
Number of Units:	2 Work:	1	0 Sumport	1 \$180.55	1 Maint:	\$104.62
Group Subtotals:	Work:		Support:	\$180.55	Maint:	\$194.62
Total work team co MATERIAL QU	ANTITIES					
Initial volume Loose volume	: 28	CCY LCY		factor: <u>1.215</u>		
	ource of estimated		sq ft x 1 ft topsoil Handbook			
Source	Material Purch					
		otal Cost: \$0.0				
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (wei</u> Material y	weight: 1,600	ail.	Pounds/LCY			
Rated Pa	ription: <u>Top So</u> ayload: 52,000		Pounds			

Truck/Loader Worksheet Con	nt'd	Task # 021			Page 2 of 3	
Payload Capacity:	32.50	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final	Truck Volum	e Based on Number o	f Loader Passes:	18.92	LCY	
Loading Tool Capacity						
	1 200		Buc	ket Size Class: <u>N</u>	A	
Rated Capacity:	4.300	LCY (heaped)		1200/1100		-
Bucket Fill Factor: _ Adjusted Capacity:	1.100 4.730	Other - rock/di	rt mixtures (100	0-120%) 1.100		-
Aujusted Capacity.	4.750					
Job Condition Corrections:	-	S	ite Altitude (ft.):	<u>9700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Numbe	er of Loading Tool Pa	asses Required to	Fill Truck:	4 1	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time v Selected Value v						
Track Loaders –						
Cycle Time Elements (min.):						
Load: NA	1	Maneuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted B	asic Loader Cycle Ti	me (load, dump,	maneuver):0	.500 min	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Material up	to 1/8" diameter 0.02		0.020	(Cat HB)	_
Stockpile:	Dumped by	truck 0.02		0.020	(Cat HB)	
Truck Ownership:	Common ow	vnership of trucks and	l loaders -0.04	-0.040	(Cat HB)	
Operation:		eration -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal tar	0		0.000	(Cat HB)	_
		•	ne Adjustment:	-0.040	minutes	
			ler Cycle Time:	0.460	minutes	
		Net Load I	Time per Truck:	1.480	minutes	
Truck Cycle Time:						
Truck Exchange Time	0.50	Minutes	Adjusted	for site altitude:	0.500	Minute
Truck Load Time	1.480	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	0.90	Minutes	Adjusted	for site altitude:	0.900	Minute
Truck Travel (Haul & Return maintained 3.0) Time:	Road Condition:	Firm, smooth, rol	lling, dirt/lt. surface	d, watered,	

Haul Rout					T 1 D	TT T T T	Turnel	
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	4800.0	00	20.00	3.00	23.00	331	14.505	
					Haul Time:	14.505	minutes	
Return Ro				1				
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	4800.0)0	-20.00	3.00	-17.00	1170	4.229	
					Return Time:	4.229	minutes	8
				Total Tru	ck Cycle Time:	21.614	minutes	5
Loading Tool	l unit							
Produ		573.33	LCY/Hour		Adjusted for j	ob efficiency:	475.87	LCY/Hour
Truck Unit Produ	ction							
	_	52.52	LCY/Hour		Adjusted for j	ob efficiency:	43.59	LCY/Hour
Optimal No. of Tr	ucks:	11	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 87.	19 LCY	/Hour
					er team production			/Hour
			Adjusted multip				19 LCY.	/Hour
<u>JOB TIN</u>	ME AN	D COST						
Fleet s	size:	1	Team(s)]	Fotal job time:	0.32	e Ho	urs
Unit c	cost:	\$8.946	/LCY	,	Total job cost:	\$250)	

Task description:	Grade slope at Ca	ribou 300 🛛	LP		
e: <u>Cross Gold Mine</u>	Perm	it Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENTIF	ICATION				
Task #: 022 Date: 1/27/2022 User: AME		Colorado Boulder		Abbreviation: Filename:	None M410-022
Agency or organ	nization name: DRM	4S			
HOURLY EQUIPME	ENT COST				
Basic Machine:CatHorsepower:240Blade Type:SerAttachment:NA	D7R DS XR Series II) ni-Universal er day				
Cost Breakdown:					
Ownership Cost/Hour: Operating Cost/Hour: Ripper own. Cost/Hour: Ripper op. Cost/Hour:		\$81.02 \$79.33 \$0.00 \$0.00	Utilization % NA 100 NA 0		
Operator Cost/Hour:		\$40.04	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$200.39 \$200.39				
Source of estimated volu Source of estimated swell	0 LCY me: <u>10 ft H x 10</u> l factor: <u>Cat Handbo</u>		ade 1H:1V to 3H:1V		
HOURLY PRODUCT Average push distance: Unadjusted hourly produc	50 feet	ĥr			
Materials consistency des		ed fill or ei	mbankment 0.9		
Average push gradient: Average site altitude:	-5 % 9,700 feet				
Material weight:	2,650 lbs/LCY			_	
Weight description:	Decomposed rock -	25% Rock,	, 75% Earth		
Job Condition Correction Operator	Skill: 1.00		Source (EXCL.)		
Material consist Dozing me Visit		00	(CAT HB)) (50% SL) (AVG.)		
	•				

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5567	
Adjusted unit production: 50	69.45 LCY/hr	
Adjusted fleet production: 5	69.45 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.352/LCY
Total job time:	0 20 Hours

I otal job time:	0.20 Hours
Total job cost:	\$41

Task description:	Grad	le slope at P	otosi Shaft			
: Cross Gold Mine		Perr	nit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENT	TFICATI	ON				
Task #: 023		State:	Colorado		Abbreviation:	None
Date: 1/27/20 User: AME	22	County:	Boulder		Filename:	M410-023
	·····		MC			
Agency or o	rganization	name: DR	MS			
HOURLY EQUIP	MENT CO	<u>DST</u>				
		S XR Series	Ι	<u> </u>		
Horsepower:	240	1				
Blade Type:	Semi-Univo NA	ersal				
Shift Basis:						
Data Source:	1 per day (CRG)					
	(CKU)					
Cost Breakdown:				Litilization 04		
Ownership Cost/Ho	11 r ·		\$81.02	<u>Utilization %</u> NA		
Operating Cost/Hot			\$79.33	100		
Ripper own. Cost/Hot			\$0.00	NA		
Ripper op. Cost/Hor			\$0.00	0		
Operator Cost/Hor	-		\$40.04	NA		
-			+	1111		
Total unit Cost/Hour:						
Total Fleet Cost/Hour	:: \$200.	39				
	NTITIES 28 1.250					
	85 LCY					
Source of estimated v Source of estimated s		10 ft H x Cat Hand		de 2H:1V to 3H:1V		
HOURLY PRODU	JCTION					
Average push distanc Unadjusted hourly pro		50 feet 1,022.9 LC	//hr			
Materials consistency	-			mbankment 0.9		
Average push gradien	ıt: -5 %					
Average site altitude:	9,700	feet				
Material weight:	2,650	lbs/LCY			_	
Weight description:	Decor	mposed rock	- 25% Rock	, 75% Earth		
Job Condition Correc	tion Factor			Source		
Opera	tor Skill:		000	(EXCL.)		
Material con			900	(CAT HB))		
	method:		100	(50% SL)		
V	isibility:	1.	000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5567	
Adjusted unit production: 5	69.45 LCY/hr	
Adjusted fleet production: 5	69.45 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.352/LCY
Total job time:	0 06 Hours

	sk description:	Grad	le slope at C	ross vent S	haft & Escapeway		
: _	Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PF	ROJECT IDENTI	FICATIO	ON				
	Task #: 024		State:	Colorado		Abbreviation:	None
	Date: $1/27/2022$	2	County:	Boulder		Filename:	M410-024
	User: AME		county.	Doulder			11110 021
	Agency or org	ganization	name: DR	MS			
H	OURLY EQUIPM	IENT CO	<u>DST</u>				
	Basic Machine: C	at D7R D	S XR Series	II			
		40					
		emi-Unive	ersal				
	• I	IA					
		per day					
		CRG)					
<u>C</u> o	st Breakdown:	,					
					Utilization %		
С	Winership Cost/Hour	:		\$81.02	NA		
	Operating Cost/Hour			\$79.33	100		
	pper own. Cost/Hour			\$0.00	NA		
F	Ripper op. Cost/Hour	:		\$0.00	0		
	Operator Cost/Hour			\$40.04	NA		
		•		φ10.01			
m			•	φ10.01	1171		
	tal unit Cost/Hour:	\$200.3		φ TOTO Γ			
	tal unit Cost/Hour: tal Fleet Cost/Hour:			ψ10.01			
То	tal Fleet Cost/Hour:	\$200.3 \$200. 3		\$ 10.01			
То		\$200.3 \$200. 3					
То <u>М</u>	tal Fleet Cost/Hour:	\$200.3 \$200. 3 TITIES					
То <u>М</u>	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: _23	\$200.3 \$200. 3 TITIES					
То <u>М</u> І	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2	\$200.3 \$200. 3 TITIES					
To <u>M</u> I	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1 Loose volume: 29	\$200 \$200 TTITIES 250 LCY	39				
To <u>M</u> I So	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated vol	\$200 \$200 \$200 TITIES 250 LCY lume:	39 10 ft H x	 25 ft L - grad	de 1H:1V to 3H:1V		
To <u>M</u> I So	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1 Loose volume: 29	\$200 \$200 \$200 TITIES 250 LCY lume:	39	 25 ft L - grad			
To M I So So	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volume of estimated sw	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor:	39 10 ft H x	 25 ft L - grad			
To <u>M</u> I So So So	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1.3 Loose volume: 29 urce of estimated volume urce of estimated sw OURLY PRODU	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION	39 10 ft H x Cat Hand	 25 ft L - grad			
To <u>M</u> I So So <u>H</u> (Av	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volurce of estimated sw OURLY PRODUC	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION	39 10 ft H x Cat Hand 50 feet	 25 ft L - grad book			
To <u>M</u> I So So <u>H</u> (Av	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1.3 Loose volume: 29 urce of estimated volume urce of estimated sw OURLY PRODU	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION	39 10 ft H x Cat Hand	 25 ft L - grad book			
To <u>M</u> I So So <u>H</u> (Av Un	tal Fleet Cost/Hour: ATERIAL QUAN nitial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volurce of estimated sw OURLY PRODUC	\$200 \$200 \$200 \$200 \$250 LCY lume: ell factor: CTION luction:	39 10 ft H x Cat Hand 50 feet 1,022.9 LC	 25 ft L - grad book Y/hr			
To <u>M</u> I So So <u>H</u> (Av Un Ma	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volume urce of estimated swell OURLY PRODUC verage push distance: adjusted hourly proceaterials consistency of	\$200 \$200 \$200 \$200 \$200 \$250 LCY lume: ell factor: CTION luction:	39 10 ft H x Cat Hand 50 feet 1,022.9 LC	 25 ft L - grad book Y/hr	de 1H:1V to 3H:1V		
To <u>M</u> I So So <u>H</u> Av Un Ma Av	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2 Loose volume: 29 urce of estimated volume urce of estimated swell OURLY PRODUC verage push distance: adjusted hourly proceaterials consistency of verage push gradient:	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: escription -5 %	39 10 ft H x Cat Hand 50 feet 1,022.9 LC : Compa	 25 ft L - grad book Y/hr	de 1H:1V to 3H:1V		
To <u>M</u> I So So <u>H</u> Av Un Ma Av	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volume urce of estimated swell OURLY PRODUC verage push distance: adjusted hourly proceaterials consistency of	\$200 \$200 \$200 \$200 \$200 \$250 LCY lume: ell factor: CTION luction:	39 10 ft H x Cat Hand 50 feet 1,022.9 LC : Compa	 25 ft L - grad book Y/hr	de 1H:1V to 3H:1V		
To M I So So H Av Un Ma Av	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2 Loose volume: 29 urce of estimated volume urce of estimated swell OURLY PRODUC verage push distance: adjusted hourly proceaterials consistency of verage push gradient:	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: escription <u>-5 %</u> 9,700	39 10 ft H x Cat Hand 50 feet 1,022.9 LC : Compa	 25 ft L - grad book Y/hr	de 1H:1V to 3H:1V		
To <u>M</u> I So So So <u>H</u> Av Un Ma Av Ma	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2 Loose volume: 29 urce of estimated volume: 29 urce of estimated sw OURLY PRODUC rerage push distance: adjusted hourly proc aterials consistency consistency constrained statements rerage push gradient: rerage site altitude:	\$200.3 \$200.3 \$200.3 \$200.3 \$250 LCY lume: ell factor: CTION luction: -5 % 9,700 2,650	39 10 ft H x Cat Hand 50 feet 1,022.9 LC : Compa feet	 25 ft L - grad book Y/hr cted fill or en	de 1H:1V to 3H:1V		
To M I So So So H Un Ma Av Av Av Ma We	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1 Loose volume: 29 urce of estimated volurce of estimated sw OURLY PRODUC verage push distance: adjusted hourly proce- aterials consistency of verage push gradient: verage site altitude: aterial weight:	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: -5 % 9,700 2,650 Decor	39 <u>10 ft H x</u> <u>Cat Hand</u> 50 feet 1,022.9 LC : <u>Compa</u> feet lbs/LCY	 25 ft L - grad book Y/hr cted fill or en	de 1H:1V to 3H:1V		
To M I So So So H Un Ma Av Av Av Ma We	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2 Loose volume: 29 urce of estimated volume: 29 urce of estimated sw OURLY PRODUC rerage push distance: adjusted hourly proc aterials consistency of rerage push gradient: rerage site altitude: aterial weight: eight description:	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: -5 % 9,700 2,650 Decor on Factor	39	 25 ft L - grad book Y/hr cted fill or en	de 1H:1V to 3H:1V		
To M I So So So H Un Ma Av Av Av Ma We	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.2 Loose volume: 29 urce of estimated volurce of estimated sw OURLY PRODUC rerage push distance: adjusted hourly proc aterials consistency contents rerage push gradient: rerage site altitude: aterial weight: eight description: o Condition Correction	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: -5 % 9,700 2,650 Decor on Factor or Skill:	39 <u>10 ft H x</u> <u>Cat Hand</u> 50 feet 1,022.9 LC : <u>Compa</u> feet lbs/LCY mposed rock 1.	 25 ft L - grad book Y/hr cted fill or en - 25% Rock	de 1H:1V to 3H:1V mbankment 0.9 , 75% Earth Source		
To M I So So So H Un Ma Av Av Av Ma We	tal Fleet Cost/Hour: ATERIAL QUAN initial Volume: 23 Swell factor: 1.3 Loose volume: 29 urce of estimated volurce of estimated sw OURLY PRODUC verage push distance: adjusted hourly proce- aterials consistency of verage site altitude: aterial weight: eight description: O Condition Correction Operate	\$200 \$200 \$200 \$200 \$250 LCY ume: ell factor: CTION luction: -5 % 9,700 2,650 Decor on Factor or Skill: stency:	39 10 ft H x Cat Hand 50 feet 1,022.9 LC :	25 ft L - grav book Y/hr cted fill or et - 25% Rock	 de 1H:1V to 3H:1V mbankment 0.9 , 75% Earth (EXCL.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5567	
Adjusted unit production:	569.45 LCY/hr	
Adjusted fleet production:	569.45 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.352/LCY
Total ich time	0 05 Hours

Total job time:	0.05 Hours
Total job cost:	\$10

Task description:	Retopsoil Caribo	u Water Sh	ed area		
Cross Gold Mine	Perr	nit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENTI	FICATION				
Task #: 025	State:	Colorado		Abbreviation:	None
Date: $\frac{023}{1/28/202}$		Boulder		Filename:	M410-025
User: AME	<u> </u>	Douldel		Filename.	W1410-023
Agency or org	ganization name: DR	MS			
HOURLY EQUIPM	IENT COST				
Basic Machine: 0	Cat D7R DS XR Series	Π			
Horsepower: 2	40				
Blade Type: S	emi-Universal				
	IA				
	per day				
Data Source: (CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour		\$81.02	NA		
Operating Cost/Hour		\$79.33	100		
Ripper own. Cost/Hour		\$0.00	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour	•	\$40.04	NA		
Tetal all Oraclus	¢200.20				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$200.39 \$200.39				
Total Fleet Cost/Hour.	\$200.59				
MATERIAL OUAN	TOTOTEC				
MATERIAL QUAN	<u>1111E5</u>				
Initial Volume: 5					
Swell factor: 1.2	215				
Loose volume: 6	LCY				
Source of estimated vo	lume: 112 sa ft s	x 12 in topso	nil		
Source of estimated vo	1				
HOURLY PRODU	CTION				
Average push distance:		-			
Unadjusted hourly proc	luction: 350.0 LCY/	hr			
Materials consistency of	lescription: Consoli	dated stock	pile 1.0		
Average push gradient:	0 %				
Average site altitude:	9,700 feet				
Material weight:	1,600 lbs/LCY			_	
Weight description:	Top Soil				
Job Condition Correcti	on Factor		Source		
Operate		000	(EXCL.)		
			· · · · · · · · · · · · · · · · · · ·		
Material consi	stency:	000	(CAI HB)		
Material consi Dozing r		000 100	(CAT HB) (50% SL)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9190	
Adjusted unit production: 32	21.65 LCY/hr	
Adjusted fleet production: 32	21.65 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.623/LCY
Total job time:	0.02 Hours

10tul job tille.	0.02 110013
Total job cost:	\$4

	description:	Keto	psoil Flow S	neu 1 area			
Cr	ross Gold Mine		Perr	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
<u>PRC</u>	DJECT IDEN	TIFICATI	<u>ON</u>				
	ask #: 026 Date: 1/28/20	022	State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-026
	User: <u>AME</u> Agency or	organization	name: DR	RMS			
HOU	URLY EQUIE	PMENT CO	<u>DST</u>				
Ba	asic Machine:	Cat D7R D	S XR Series	II			
	Horsepower:	240					
	Blade Type:	Semi-Univ	ersal				
	Attachment:	NA 1 man days			_		
	Shift Basis:	1 per day (CRG)					
	-						
<u>Cost</u>	Breakdown:				Utilization %		
Ωw^{r}	vnership Cost/Ho	niir.		\$81.02	NA		
	perating Cost/Ho			\$79.33	100		
	er own. Cost/Ho			\$0.00	NA		
	oper op. Cost/Ho			\$0.00	0		
-	perator Cost/Ho			\$40.04	NA		
Total	l unit Cost/Hour		39				
Total	l unit Cost/Hour l Fleet Cost/Hou	ır: \$200.	39				
Total <u>MA7</u> Init	l Fleet Cost/Hou TERIAL QU A tial Volume:	ır: \$200. ANTITIES 5	39				
Total <u>MA</u> Init	l Fleet Cost/Hou TERIAL QU tial Volume: Swell factor:	ır: \$200. ANTITIES	39				
Total <u>MA7</u> Init Source	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated	r: \$200. ANTITIES 5 1.215 6 LCY volume:	39 60 sq ft x	 12 in topsoi book	1		
Total <u>MA7</u> Init Source Source	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated so ce of estimated so	\$200. ANTITIES 5 1.215 6 LCY volume: swell factor:	39		 1		
Total <u>MA7</u> Init Sourc Sourc Sourc HOU Avera	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated so ce of estimated so URLY PROD rage push distance	r: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce:	39 60 sq ft x Cat Hand 250 feet	book	1		
Total <u>MA7</u> Init Sourc Sourc Sourc HOU Avera	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated so ce of estimated so URLY PROD	r: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce:	39 60 sq ft x Cat Hand	book	 1		
Total <u>MA7</u> Init Source Source Source <u>HOU</u> Avera Unad	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated so ce of estimated so URLY PROD rage push distance	antifies 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction:	39 60 sq ft x Cat Hand 250 feet 350.0 LCY/	book			
Total <u>MA7</u> Init Source Source Source HOU Avera Unad Mater	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: pose volume: ce of estimated so ce of estimated so URLY PROD rage push distance djusted hourly pu	\$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION cce: roduction: y description nt: 0 %	39 60 sq ft x Cat Hand 250 feet 350.0 LCY/ a:Consoli	book			
Total MAT Init Source Source Source HOU Avera Avera Avera Avera	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: oose volume: ce of estimated of ce of estimated of URLY PROD Tage push distance djusted hourly pro- erials consistence rage push gradie	x: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 9,700	39 60 sq ft x Cat Hand 250 feet 350.0 LCY/ a:Consoli	book			
Total MAT Init Source Source Source Source Avera Avera Avera Avera Avera Avera	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: oose volume: ce of estimated s ce of estimated s URLY PROD rage push distance djusted hourly pub- erials consistence rage push gradie rage site altitude	x: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 9,700	39 <u>60 sq ft x</u> <u>Cat Hand</u> <u>250 feet</u> 350.0 LCY/ a: <u>Consoli</u> 9 feet 9 lbs/LCY	book			
Total MAT Init S Lo Source Source Source Mater Avera Avera Avera Avera Mater Weig	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: oose volume: ce of estimated of ce of estimated of trage push distance djusted hourly pub- erials consistency rage push gradie rage site altitude erial weight: ght description:	x: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 9,700	39 <u>60 sq ft x</u> <u>Cat Hand</u> <u>250 feet</u> 350.0 LCY/ a: <u>Consoli</u> 9 feet 9 lbs/LCY	book			
Total MAT Init S Lo Source Source Source Mater Avera Avera Avera Avera Mater Weig	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: oose volume: ce of estimated of ce of estimated of trage push distance djusted hourly pub- erials consistency rage push gradie rage site altitude erial weight: ght description: Condition Correct	x: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 9,700	39 60 sq ft x Cat Hand 250 feet 350.0 LCY/ a: Consoli 0 feet 0 lbs/LCY Soil	book			
Total MAT Init S Lo Source Source Source Mater Avera Avera Avera Avera Mater Weig	I Fleet Cost/Hou TERIAL QUA tial Volume: Swell factor: oose volume: ce of estimated of ce of estimated of the consistency rage push distand djusted hourly pro- erials consistency rage push gradie rage site altitude erial weight: ght description: <u>Condition Correer</u> Material correct	II: \$200. ANTITIES 5 1.215 6 LCY volume: swell factor: UCTION ce: roduction: y description nt: 0 % : 9,700 	39 60 sq ft x Cat Hand 250 feet 350.0 LCY/ a: Consoli 9 feet 9 lbs/LCY Soil 1.	book hr idated stockj			

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	321.65 LCY/hr
Adjusted fleet production:	321.65 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.623/LCY

Total job time:	0.02 Hours
Total job cost:	\$4

			-	hed 2 area			
: _	Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
P	ROJECT IDENT	IFICATI	ON				
	Task #: 027 Date: 1/28/20		State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-027
	User: AME						
	Agency or o	rganization	name: DR	RMS			
H	OURLY EQUIP	MENT CO	<u>OST</u>				
			S XR Series	II			
		240					
	• I	Semi-Univ	ersal				
		NA					
		1 per day					
	Data Source:	(CRG)					
<u>C</u>	ost Breakdown:						
					Utilization %		
(Ownership Cost/Hou	ur:		\$81.02	NA		
	Operating Cost/Hou	ur:		\$79.33	100		
Ri	ipper own. Cost/Hou			\$0.00	NA		
	Dimmon on Cost/Hos	1444		\$0.00	0		
	Ripper op. Cost/Hou	ui					
] To	Operator Cost/Hour otal unit Cost/Hour: otal Fleet Cost/Hour	ur:\$200.		\$40.04	NA		
To To <u>M</u>	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: <u>5</u> Swell factor: <u>1</u>	ur:	39	\$40.04	NA		
To To M	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6	ur: \$200. \$20.	39				
To To M	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: <u>5</u> Swell factor: <u>1</u>	ur: \$200. \$20.	39	 			
To To <u>M</u> So So	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour LATERIAL QUA Initial Volume: <u>5</u> Swell factor: <u>1</u> Loose volume: <u>6</u> ource of estimated vo	ur: \$200. \$20.	39 36 sq ft x	 			
To To To So So So H	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 purce of estimated volume of estimated system	ur: \$200. \$20.	39 36 sq ft x	 12 in topsoi book			
To To M So So So H U	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated sw OURLY PRODU verage push distance	ur: \$200. \$200. NTITIES .215 LCY olume: well factor: <u>JCTION</u> e: oduction:	39 <u>36 sq ft x</u> Cat Hand <u>300 feet</u> <u>311.1 LCY</u> /	 12 in topsoi book	1		
To To To So So <u>H</u> Av UI M	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour Initial Volume:5 Swell factor:1 Loose volume:6 ource of estimated vo ource of estimated so COURLY PRODU verage push distance nadjusted hourly pro	ur:	39 <u>36 sq ft x</u> Cat Hand <u>300 feet</u> 311.1 LCY/ :: <u>Consoli</u>	12 in topsoi book	1		
To To To So So <u>H</u> Av Ut M	Operator Cost/Hour: otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated vo ource of estimated sy COURLY PRODU verage push distance nadjusted hourly pro- laterials consistency verage push gradien	ur:\$200. ::\$200. 	39 <u>36 sq ft x</u> Cat Hand <u>300 feet</u> 311.1 LCY/ :: <u>Consoli</u>	12 in topsoi book	1		
To To To M Sco Sco H Av Ut M Av Av M	Operator Cost/Hou otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated vo ource of estimated sy COURLY PRODU verage push distance nadjusted hourly pro- laterials consistency verage push gradien verage site altitude:	ur:\$200. ::\$200. 	39 <u>36 sq ft x</u> <u>Cat Hand</u> <u>300 feet</u> <u>311.1 LCY/</u> : <u>Consolid</u>) feet) lbs/LCY	12 in topsoi book	1		
To To To So So <u>H</u> A UI M A V M W	Operator Cost/Hour: otal unit Cost/Hour: otal Fleet Cost/Hour IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated vo ource of estimated so COURLY PRODU verage push distance nadjusted hourly pro- laterials consistency verage push gradien verage site altitude: laterial weight: Veight description:	ur:\$200. ::\$200. 	39 <u>36 sq ft x</u> <u>Cat Hand</u> <u>300 feet</u> <u>311.1 LCY/</u> : <u>Consolid</u>) feet) lbs/LCY	12 in topsoi book	1		
To To So So <u>H</u> Au Ui M Au M W	Operator Cost/Hour: otal unit Cost/Hour: otal Fleet Cost/Hour: IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated vo ource of estimated so COURLY PRODU verage push distance nadjusted hourly pro- laterials consistency verage push gradien verage site altitude: laterial weight: Veight description: ob Condition Correct	ur:	39 36 sq ft x Cat Hand 300 feet 311.1 LCY/ a: Consoli 0 feet 0 lbs/LCY Soil	12 in topsoi book	1		
To To To So So <u>H</u> A UI M A V M W	Operator Cost/Hour: otal unit Cost/Hour: otal Fleet Cost/Hour: IATERIAL QUA Initial Volume: 5 Swell factor: 1 Loose volume: 6 ource of estimated vo ource of estimated vo ource of estimated so COURLY PRODU verage push distance nadjusted hourly pro- laterials consistency verage push gradien verage site altitude: laterial weight: Veight description: ob Condition Correct	ur: $$200$. x: $$200$. yourself $$200$. you	39 <u>36 sq ft x</u> Cat Hand <u>300 feet</u> 311.1 LCY/ a: Consoli 9 feet 9 lbs/LCY Soil 1.	hr idated stock	1 pile 1.0 <u></u>		

(1 SHIFT/DAY) (FND-MF) (CAT HB)
. ,
(CAT HB)
(CAT HB)
(CAT HB)
(PAT)

Adjusted unit production:	285.90 LCY/hr
Adjusted fleet production:	285.9 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.701/LCY

Total job time:	0.02 Hours
Total job cost:	\$4

1 as	sk description:	Reto	psoil Cross	Ore Buildin	g area		
: _(Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PR	ROJECT IDEN	FIFICATIO	<u>ON</u>				
	Task #: 028		State:	Colorado		Abbreviation:	None
	Date: 1/28/20	022	County:	Boulder		Filename:	M410-028
	User: AME						
	Agency or o	organization	name: DR	RMS			
<u>H(</u>	OURLY EQUIP	MENT CO	<u>)ST</u>				
]	Basic Machine:	Cat D7R DS	S XR Series	II			
	Horsepower:	240					
	Blade Type:	Semi-Unive	ersal				
	Attachment:	NA					
	Shift Basis:	1 per day					
	Data Source:	(CRG)					
Co	st Breakdown:						
					Utilization %		
0	wnership Cost/Ho	our:		\$81.02	NA		
	Operating Cost/Ho			\$79.33	100		
	pper own. Cost/Ho			\$0.00	NA		
	Ripper op. Cost/Ho	-		\$0.00	0		
(Operator Cost/Ho	our:		\$40.04	NA		
Tet	tal unit Cost/Hour	: \$200.3	30			-	
	tal unit Cost/Hour tal Fleet Cost/Hou						
101	iai Fieel Cost/Hou	1. \$200.	37				
M	ATERIAL QUA	ANTITIES					
Ĭı		119					
-		1.215					
I	Loose volume:	145 LCY					
Sou	urce of estimated v	volume:	3,200 sq f	ft x 12 in top	osoil		
Sou	urce of estimated s	swell factor:	Cat Hand				
					_		
	OURLY PROD	UCTION					
<u>H</u> (
_			200 frat				
Av	erage push distanc	ce:	300 feet	'he			
Av		ce:	300 feet 311.1 LCY/	ĥr			
Ave Un	erage push distanc	ce: roduction:	311.1 LCY/	hr idated stockj	pile 1.0		
Ave Una Ma	erage push distanc adjusted hourly pr aterials consistency	ce: roduction:	311.1 LCY/		pile 1.0		
Ave Una Ma	erage push distance adjusted hourly pr aterials consistency erage push gradier	ce: roduction: y description: nt: 0 %	311.1 LCY/		pile 1.0		
Ave Una Ma	erage push distanc adjusted hourly pr aterials consistency	ce: roduction: y description: nt: 0 %	311.1 LCY/		pile 1.0		
Ave Una Ma Ave Ave	erage push distance adjusted hourly pr aterials consistency erage push gradier	$\begin{array}{c} ce: & -\\ coduction: & -\\ y description: \\ nt: & 0 \% \\ cs: & -9,700 \end{array}$	311.1 LCY/		pile 1.0		
Ave Una Ma Ave Ave Ma	erage push distance adjusted hourly pr aterials consistency erage push gradies erage site altitude:	$\begin{array}{c} ce: & -\\ coduction: & -$	311.1 LCY/ Consol: feet lbs/LCY		pile 1.0	_	
Ave Una Ma Ave Ave Ma	erage push distance adjusted hourly pr aterials consistency erage push gradier erage site altitude: aterial weight:	ce:	311.1 LCY/ Consol: feet lbs/LCY		 pile 1.0 		
Ave Una Ma Ave Ave Ma	erage push distance adjusted hourly pr aterials consistency erage push gradien erage site altitude: aterial weight: eight description: <u>o Condition Correc</u>	ce:	311.1 LCY/ : <u>Consol</u> feet lbs/LCY oil				
Ave Una Ma Ave Ave Ma	erage push distance adjusted hourly pr aterials consistency erage push gradien erage site altitude: aterial weight: eight description: <u>o Condition Correc</u>	ve: roduction: y description: nt: 9,700 	311.1 LCY/ : <u>Consol</u> feet lbs/LCY oil 1.	idated stockj	Source	-	

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
71		, , , , , , , , , , , , , , , , ,
Net correction:	0.9190	

Adjusted unit production:	285.90 LCY/hr
Adjusted fleet production:	285.9 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.701/LCY

Total job time:	0.51 Hours
Total job cost:	\$101

Task description:	Retopso	II Explos	ives biorage			
: Cross Gold Mine		Peri	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
PROJECT IDENTIF	ICATION					
Task #: 029 Date: 1/28/2022 User: AME		State: County:	Colorado Boulder		Abbreviation: Filename:	None M410-029
Agency or orga	nization nar	ne. DB	RMS			
HOURLY EQUIPMI	ENT COST	<u>[</u>				
	t D7R DS X	R Series	II			
Horsepower: 24						
Blade Type: Se	mi-Universa	1				
Attachment: NA	I					
Shift Basis: 1 p	ber day					
	RG)					
Cost Breakdown:						
<u>Cost Dicardown</u> .				Utilization %		
Ownership Cost/Hour:			\$81.02	NA		
Operating Cost/Hour:			\$79.33	100		
Ripper own. Cost/Hour:			\$0.00	NA		
			\$0.00	0		
			JU.UU	0		
Ripper op. Cost/Hour:						
			\$40.04	NA		
Ripper op. Cost/Hour:	\$200.39 \$200.39			NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour:	\$200.39			NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21	\$200.39 FITIES 15			NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>5</u>	\$200.39 FITIES 15			NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21	\$200.39 FITIES 15 CY	100 sq ft :				
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo	\$200.39 FITIES 15 CY ume:	100 sq ft : Cat Hand	\$40.04 x 12 in topso			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu Source of estimated swell	\$200.39 <u>FITIES</u> 15 CY Ime: Il factor:		\$40.04 x 12 in topso			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu 5 HOURLY PRODUCC 100	\$200.39 FITIES 15 CY Ime: Il factor:	Cat Hand	\$40.04 x 12 in topso			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu 5 Source of estimated swell 4 HOURLY PRODUCC Average push distance:	\$200.39 FITIES 15 CY Inme: Il factor: TION 30	Cat Hand	\$40.04			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu 5 HOURLY PRODUCC 100	\$200.39 FITIES 15 CY Inme: Il factor: TION 30	Cat Hand	\$40.04			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu 5 Source of estimated swell 4 HOURLY PRODUCC Average push distance:	\$200.39 FITIES 15 CY ume: Il factor: TION action: 30	Cat Hand 0 feet 1.1 LCY/	\$40.04			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lot Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance: Unadjusted hourly product 1000000000000000000000000000000000000	\$200.39 FITIES 15 CY ume: Il factor: TION action: 30	Cat Hand 0 feet 1.1 LCY/ Consoli	\$40.04 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo Source of estimated volu 5 Source of estimated swell 4 HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: 1	\$200.39 FITIES 15 CY ume: Il factor: TION action: 31 scription: 0 %	Cat Hand 0 feet 1.1 LCY/ Consoli t	\$40.04 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo Source of estimated volu 5 Source of estimated swell 4 HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$200.39 FITIES 15 CY II factor: TION action: scription: 9,700 fee	Cat Hand 0 feet 1.1 LCY/ Consoli t	\$40.04 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight: Weight description:	\$200.39 FITIES 15 CY Ime: Il factor: TION action: 30 action: 31 scription: 0 % 9,700 fee 1,600 lbs Top Soil	Cat Hand 0 feet 1.1 LCY/ Consoli t	\$40.04 	 bil pile 1.0		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight: Weight description: Job Condition Correction	\$200.39 FITIES 15 CY ume: 11 factor: 11 factor: 0 action: 30 action: 31 scription: 0 % 9,700 fee 1,600 lbs Top Soil n Factor	Cat Hand 0 feet 1.1 LCY/ Consoli t /LCY	\$40.04 	bil bil pile 1.0 Source		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5 Swell factor: 1.21 Loose volume: 6 Lo Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight: Weight description:	\$200.39 FITIES 15 CY ume: 11 factor: 11 factor: 11 factor: 11 factor: 11 factor: 12 factor: 30 action: 31 scription: 0 % 9,700 fee 1,600 lbs Top Soil n Factor Skill:	Cat Hand 0 feet 1.1 LCY/ Consoli t /LCY 1.	\$40.04 	 bil pile 1.0		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	285.90 LCY/hr
Adjusted fleet production:	285.9 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.701/LCY

Total job time:	0.02 Hours
Total job cost:	\$4

Page 1 of 3

TRUCK/LOADER TEAM WORK

		Historic Shaft D				
Site: Cross Gold Min	e	Permit Actio	on: AM-02 Bon 2022		Permit/Job#: <u>M</u>	1977410
PROJECT IDE	NTIFICATION	[
Task #: 030		State: Colora	ado	Ab	breviation: No	ne
Date: 1/27/ User: AME		County: Bould	er		Filename: M4	10-030
Agency o	r organization nar	ne: DRMS				
HOURLY EQU	IPMENT COS	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
,			Equipment Descri	ption		
	Truck Loader Tea		<u>725</u> Г 950Н			
Supp	oort Equipment -I	Load Area: NA				
Road M	D- Iaintenance –Mot		D7R DS XR Seri Γ 14Μ	es II		
			ter Tanker, 3,500	Gal.		
Cost President	Tmal/L o	adan Taam	Summert	Davinment	Maintanan	as Equipment
<u>Cost Breakdown</u> :	Truck	ader Team Loader	Load Area	Equipment Dump Area	Motor Grader	ce Equipment Water Truck
%Utilization-machine:	100	100	NA	75	50	50
Ownership cost/hour:	\$72.63	\$38.59	NA	\$81.02	\$85.80	\$17.15
Operating cost/hour:	\$49.40	\$36.56	NA	\$59.50	\$30.20	\$14.60
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour: Operator cost/hour:	NA \$24.82	\$0.00 \$35.97	NA NA	\$0.00 \$40.04	\$0.00 \$46.87	\$0.00
Unit Subtotals:	\$146.85	\$111.12	NA	\$180.55	\$162.87	\$31.75
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$404.82	Support:	\$180.55	Maint:	\$194.62
Total work team co	st/hour: \$779.9 9)				
<u>MATERIAL QU</u>	JANTITIES					
Initial volume Loose volume		0 CCY LCY		factor: <u>1.125</u>		
	· · · · · ·					
	ource of estimated		ox 2,000 sq ft x 1 Iandbook	5ft depth=30,000	CF; haul from Ca	ribou
	Material Purch	ase Cost: \$0.00)			
	Te	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u>						
<u>Truck Capacity:</u> <u>Truck Payload (we</u>	ight) Basis:					
Material	weight: 2,650	posed rock - 25%	Pounds/LCY			
	rintion Docom	mound rook 250/	Look (50/ Low	n		

Truck/Loader Worksheet Cor	ıt'd	Task # 030			Page 2 of 3	
Payload Capacity:	19.62	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final	Truck Volume	Based on Number of L	oader Passes:	18.92	LCY	
Loading Tool Capacity						
		1	Buc	ket Size Class: N	A	_
Rated Capacity:	4.300	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt r	nixtures (100	0-120%) 1.100		_
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:	-	Site	Altitude (ft.):	<u>9700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI	-		
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Passe	es Required to	Fill Truck:	4 1	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v						
Track Loaders –						
Cycle Time Elements (min.):		.p				
Load: NA	М	laneuver: NA		Dump: 0.100		
Wheel and Track Loaders -	- Unadjusted Ba	sie Londer Cycle Time	(load dump)	manauwar); 0	500 min	itos
	Unaujusted Da	isie Loader Cycle Time	(Ioau, uump, I	· · · · ·	1	ues
Cycle Time Factors	N 1.1.(0)			Factor (min.)	Source	
Material:	Dumped by tr	to $3/4$ " diameter -0.02		-0.020	(Cat HB)	
Stockpile:	1 7		adama 0.04	0.020	(Cat HB)	_
Truck Ownership: Operation:	Constant oper	hership of trucks and lo	aders -0.04	-0.040 -0.040	(Cat HB) (Cat HB)	_
Dump Target:	Nominal targ			0.000	(Cat HB) (Cat HB)	_
Dump Target.	Nominal targe	Net Cycle Time	A diustment.	-0.080	minutes	
		Adjusted Loader	•	0.420	minutes	
		Net Load Tim		1.360	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time:	0.50	Minutes	Adjusted	for site altitude:	0.500	Minute
Truck Load Time:		Minutes	5	for site altitude:	1.360	Minute
ck Maneuver and Dump Time:		Minutes	5	for site altitude:	0.900	Minute
		_				_
Truck Travel (Haul & Return maintained 3.0) Time:	Road Condition: Fir	<u>m, smooth, rol</u>	lling, dirt/lt. surfaced	l, watered,	

Haul Rou								
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1600.0	00	20.00	3.00	23.00	331	4.838	
					Haul Time:	4.838	minutes	
Return Ro	oute:				-			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	1600.0	00	-20.00	3.00	-17.00	1170	1.509	
					Return Time:	1.509	minutes	
				Total Tru	ck Cycle Time:	9.107	minutes	
Loading Too	ol unit							
Produ		610.32	LCY/Hour		Adjusted for j	ob efficiency:	506.57	LCY/Hour
Truck Unit Produ		124.65	LCY/Hour		Adjusted for j	ob efficiency:	103.46	_ LCY/Hour
Optimal No. of Tr	ucks:	5	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 206	.92 LCY/	Hour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 206	.92 LCY/	Hour
JOB TIM	ME AN	D COST						
Fleet	size:	1	Team(s)]	Fotal job time:	6.04	Hou	irs
Unit	cost:	\$3.770	/LCY		Total job cost:	\$4,71	1	

Task description:	Grade Histor	ic Shaft Distur	bance		
e: Cross Gold Mine]	Permit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
DDAIECT IDENTIE	Ισατιον				
PROJECT IDENTIF	ICATION				
Task #: 031 Date: 1/27/2022 User: AME	Stat			Abbreviation: Filename:	None M410-031
Agency or organ	nization name:	DRMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D7R DS XR Ser	ies II			
Horsepower: 240					
	mi-Universal				
Attachment: NA	L				
Shift Basis: 1 p	er day				
	RG)				
Cost Breakdown:					
COSt DICAKUOWII			Utilization %		
Ownership Cost/Hour:		\$81.02	NA		
Operating Cost/Hour:		\$79.33	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:	\$200.39				
Total Fleet Cost/Hour:	\$200.39				
	φ200.57				
MATERIAL OUANT					
MATERIAL QUANT	<u>.111E5</u>				
Initial Volume: 74					
Swell factor: 1.25	0				
Loose volume: 93 L					
Source of estimated volume	11	x surf area $= 2,0$	000 sq ft		
Source of estimated swell	l factor: Cat H	andbook			
HOURLY PRODUCT	ΓΙΟΝ				
Average push distance:	50 feet				
Unadjusted hourly produce	ction: 1,022.9	LCY/hr			
Materials consistency des	scription: <u>Cor</u>	npacted fill or e	mbankment 0.9		
Amongo much and list	0.0/				
Average push gradient:	0%				
Average site altitude:	9,700 feet				
Material weight:	2,650 lbs/LCY			_	
Weight description:	Decomposed re	ock - 25% Rock	, 75% Earth		
Job Condition Correction	Factor		Source		
<u>Job Condition Correction</u> Operator		1.000	(EXCL.)		
Material consist		0.900	(CAT HB))		
Dozing me		1.100	(50% SL)		
			· · · · · · · · · · · · · · · · · · ·		
V1810	oility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4993	
Adjusted unit production: 51	10.73 LCY/hr	
Adjusted fleet production: 51	10.73 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.392/LCY
Total ich time	0 19 Hours

I otal job time:	0.18 Hours	
Total job cost:	\$36	

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Task description:	Haul an	d replace tops	oil on Historic Shat	ft Disturbance	area	
Site: Cross Gold Min	10	Permit Ac	tion: AM-02 Bon 2022	d Estimate	Permit/Job#: <u>N</u>	11977410
PROJECT IDE	NTIFICATION	I				
Task #: 032	/2022	-	orado Ider	A		one 410-032
Agency o	r organization nar	me: DRMS				
HOURLY EQU	IPMENT COS'	Г		Shift b	asis: <u>1 per day</u>	
HOUKLI EQU		<u>1</u>	Equipment Decer		asis. <u>1 per day</u>	
	Truck Loader Tea	m -Truck: C	Equipment Descri at 725	ption		
			AT 950H			
Sup	port Equipment -I					
Pood N	-D Iaintenance –Mot		at D7R DS XR Seri AT 14M	es II		
Koad N			ater Tanker, 3,500	Gal.		
			i			
<u>Cost Breakdown</u> :	Truck/Lo Truck	ader Team Loader	Support Load Area	Equipment Dump Area	Maintenar Motor Grader	nce Equipment Water Truck
				-		
%Utilization-machine:	100	100		75		50
Ownership cost/hour:	\$72.63	\$38.59		\$81.02		\$17.15
Operating cost/hour:	\$49.40	\$36.56		\$59.50		\$14.60
%Utilization-riper:	NA	0		NA ¢0.00		NA ¢0.00
Ripper own. cost/hour: Ripper op. cost/hour:	NA	\$0.00		\$0.00		\$0.00
Operator cost/hour:	NA \$24.82	\$0.00		\$0.00		\$0.00
Unit Subtotals:	\$146.85	\$111.12		\$180.55		\$31.75
Number of Units:	2	J111.12		100.55		451.75
Group Subtotals:	Work:	\$404.82	Support:	\$180.55	Maint:	\$194.62
*			Support.	\$100.55	ivianit.	\$174.02
Total work team co	ost/hour: <u>\$779.99</u>)				
MATERIAL QU	JANTITIES					
Initial volume Loose volume	e: 75	CC LC		factor: <u>1.215</u>		
	ource of estimated e of estimated swe Material Purch To	ell factor: Cat		ft topsoil		
HOURLY PRO	DDUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (we</u> Material Desc	ight) Basis: weight: 1,600 ription: Top So		Pounds/LCY			
Rated P	ayload: 52,000	1	Pounds			

Truck/Loader Worksheet Cont'd		Task # 032		Page 2 of 3		
Payload Capacity:	32.50	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final	Truck Volum	e Based on Number of	Loader Passes:	18.92	LCY	
Loading Tool Capacity					T A	
	4.000		Buc	ket Size Class: <u>N</u>	IA	_
Rated Capacity:	4.300	LCY (heaped)		1200/1100		-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	0-120%) 1.100		-
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:	_	Si	te Altitude (ft.):	<u>9700</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Numb	er of Loading Tool Pa	sses Required to	Fill Truck:	4 r	basses
Excavators and Front Shove		C	1		1	
Machine Cycle Time v	s. Job Conditi	on Rating: NA				
Selected Value	within this Bas	sic Rating: NA				
Track Loaders –	Material Desc	cription:				
Cycle Time Elements (min.):						
Load: NA	1	Maneuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted B	Basic Loader Cycle Tir	ne (load, dump, i	maneuver):0	0.500 minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Material up	to 1/8" diameter 0.02		0.020	(Cat HB)	_
Stockpile:	Dumped by	truck 0.02		0.020	(Cat HB)	_
Truck Ownership:	Common ownership of trucks and loaders -0.04			-0.040	(Cat HB)	_
Operation:		eration -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal tar			0.000	(Cat HB)	_
		•	ne Adjustment:	-0.040	minutes	
		Adjusted Load		0.460	minutes	
		Net Load T	ime per Truck:	1.480	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.50	Minutes	Adjusted	for site altitude:	0.500	Minute
Truck Load Time	: 1.480	Minutes	Adjusted	for site altitude:	1.480	Minute
k Maneuver and Dump Time	: 0.90	Minutes	Adjusted	for site altitude:	0.900	Minute
Truck Travel (Haul & Return maintained 3.0	<u>) Time:</u>	Road Condition: <u>I</u>	Firm, smooth, rol	lling, dirt/lt. surface	d, watered,	

Haul Rou	te:							
Seg # Haul Distance		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1550.0	00	20.00	3.00	23.00	331	4.687	
					Haul Time:	4.687	minutes	
Return Ro	oute:					1.007		
Seg #			Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1550.0	00	-20.00	3.00	-17.00	1170	1.462	
					Return Time:	1.462	minutes	
				Total Tru	ck Cycle Time:	9.029	minutes	
Loading Too	ol unit							
Production		573.33	LCY/Hour		Adjusted for job efficiency		475.87	LCY/Hour
Truck Unit Produ	iction _	125.73	LCY/Hour	Adjusted for job eff		ob efficiency:	104.35	_ LCY/Hour
Optimal No. of Trucks: 5		5	Truck(s)		Selected Num	per of Trucks:	2	Truck(s)
			Adjusted hourly truck team production:			on: 208.	.71 LCY/H	Iour
Adjusted single truck/loader team production: 208.71						.71 LCY/H	Iour	
		Adjusted multip	ljusted multiple truck/loader team productio		on: 208.	.71 LCY/H	Iour	
JOB TIM	ME AN	D COST						
Fleet size: 1		1	Team(s) T		Cotal job time: 0.4		4 Hours	
Unit cost: \$3.73		\$3.737	/LCY		Fotal job cost: \$34		L	

BULLDOZER WORK

Т	ask description:	Retopsoil	listurl	bance betwe	en mine features		
: _	Cross Gold Mine		Per	mit Action:	AM-02 Bond Estimate 2022	Permit/Job#:	M1977410
Р	ROJECT IDENTIFI	CATION					
	Task #: 033 Date: 1/28/2022		State: unty:	Colorado Boulder		Abbreviation: Filename:	None M410-033
	User: AME						
	Agency or organi	zation name:	DF	RMS			
Н	IOURLY EQUIPMEN	NT COST					
	Basic Machine: Cat I	D7R DS XR	Series	II			
	Horsepower: 240						
		i-Universal					
	Attachment: NA						
	Shift Basis: 1 per						
	Data Source: (CRC	G)					
C	ost Breakdown:						
					Utilization %		
(Ownership Cost/Hour:			\$81.02	NA		
	Operating Cost/Hour:			\$79.33	100		
	ipper own. Cost/Hour:			\$0.00	NA		
	Ripper op. Cost/Hour:			\$0.00	0		
	Operator Cost/Hour:			\$40.04	NA		
т	otal unit Cost/Hour:	\$200.39					
	otal Fleet Cost/Hour:	\$200.39 \$200.39					
-		φ200.09					
N	IATERIAL QUANTI	TIES					
	Initial Volume: 2,779						
	Swell factor: 1.215						
	Loose volume: 3,376	LCY					
S	ource of estimated volum	e: 75.	,024 sc	ft x 12 in to	psoil		
	ource of estimated swell f		t Hand		1		
H	IOURLY PRODUCT	ION					
	verage push distance:	300 f					
U	nadjusted hourly product	ion: <u>311.</u>	LCY	/hr			
Μ	laterials consistency desc	ription:	Consol	idated stock	pile 1.0		
	verage push gradient:	0 %					
A	verage site altitude:	9,700 feet					
Μ	Interial weight:	1,600 lbs/L	CY			_	
W	Veight description:	Top Soil					
Jo	ob Condition Correction H	Factor			Source		
	Operator Sl	kill:	1.	.000	(EXCL.)		
	Material consister			.000	(CAT HB)		
	Dozing meth			.100	(50% SL)		
	Visibil	lity:	1.	.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9190	
Adjusted unit production: 2	85.90 LCY/hr	
Adjusted fleet production: 2	85.9 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.701/LCY

Total job time:	11.81 Hours
Total job cost:	\$2,367

Cross Go	old Mine	Pe	rmit Action:	AM-02 Bond Estimate 2022	Permit/Job	o#: <u>M1977410</u>
	IDENTIFIC					
Task #:	035	State:	Colorado		Abbreviation:	None
D	1/27/2022	County:	Boulder		Filename:	M410-035
Date:			-			

FERTILIZING

Materials

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

Application

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

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$96.50
	Total Tilling Cost/Acre	\$96.50

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Wildrye - Arlington or Elkton	2.30	7.92	\$15.32
Nodding Brome	5.00	12.45	\$42.50
Creeping Red Fescue, Slender	1.00	12.63	\$2.05
Hard Fescue - Durar	1.00	12.97	\$2.93
Lupine, Mountain	0.20	0.11	\$16.00
Sheep Fescue - Covar	1.00	15.61	\$6.10
Slender Wheatgrass - San Luis	2.80	10.22	\$11.90
Muttongrass	1.00	20.66	\$34.40
Red Top	0.20	22.91	\$1.58

Tufted Hairgrass	1.00	57.39	\$11.03
Old Man of the Mountain	0.20	1.44	\$9.55
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	15.90	186.48	\$161.70

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
Hydromulch, 1 ton/ac. rate {Materials Only}	1.50	ACRE	\$424.71	\$637.07
Total Mulch Materials Cost/Acre				\$637.07

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$96.80
	Total Mulch Application Cost/Acre	\$96.80

NURSERY STOCK PLANTING

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

Estimated *Selected Replantin	No. of Acres: d Failure Rate: g Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: _ 	\$521.14 \$6,641		-	

Cross Go	old Mine	Pe	rmit Action:	AM-02 Bond Estimate 2022	Permit/Job	o#: <u>M1977410</u>
ROJECT	<u>IDENTIFI(</u>					
		State:	Colorado		Abbreviation:	None
Task #:	036	State.	Colorado			
Task #: Date:	036	County:	Boulder		Filename:	M410-036

FERTILIZING

Materials

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

Application

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

TILLING

		a
Description		Cost /Acre
Chisel plowing {DMG}		\$96.50
	Total Tilling Cost/Acre	\$96.50

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Wildrye - Arlington or Elkton	2.30	7.92	\$15.32
Nodding Brome	5.00	12.45	\$42.50
Creeping Red Fescue, Slender	1.00	12.63	\$2.05
Hard Fescue - Durar	1.00	12.97	\$2.93
Lupine, Mountain	0.20	0.11	\$16.00
Sheep Fescue - Covar	1.00	15.61	\$6.10
Slender Wheatgrass - San Luis	2.80	10.22	\$11.90
Muttongrass	1.00	20.66	\$34.40
Red Top	0.20	22.91	\$1.58

Tufted Hairgrass	1.00	57.39	\$11.03
Old Man of the Mountain	0.20	1.44	\$9.55
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	15.90	186.48	\$161.70

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
Hydromulch, 1 ton/ac. rate {Materials Only}	1.50	ACRE	\$424.71	\$637.07
Total Mulch Materials Cost/Acre				\$637.07

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$96.80
	Total Mulch Application Cost/Acre	\$96.80

NURSERY STOCK PLANTING

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$12.59			
Reseeding Job Cost:	\$1.07			
Total Job Cost:	\$14			
Job Hours:	0.01			

Cross Go	old Mine	Pe	rmit Action:	AM-02 Bond Estimate 2022	Permit/Job	o#: <u>M1977410</u>
	IDENTIFIC					N
Task #:	037	State:	Colorado		Abbreviation:	None
Date:	1/27/2022	County:	Boulder		Filename:	M410-037
User:	AME					

FERTILIZING

Materials

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

Application

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

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$96.50
Total Tilling Cost/Acre	\$96.50

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Wildrye - Arlington or Elkton	2.30	7.92	\$15.32
Nodding Brome	5.00	12.45	\$42.50
Creeping Red Fescue, Slender	1.00	12.63	\$2.05
Hard Fescue - Durar	1.00	12.97	\$2.93
Lupine, Mountain	0.20	0.11	\$16.00
Sheep Fescue - Covar	1.00	15.61	\$6.10
Slender Wheatgrass - San Luis	2.80	10.22	\$11.90
Muttongrass	1.00	20.66	\$34.40
Red Top	0.20	22.91	\$1.58

Tufted Hairgrass	1.00	57.39	\$11.03
Old Man of the Mountain	0.20	1.44	\$9.55
Yarrow, Western	0.20	12.16	\$8.36
Totals Seed Mix	15.90	186.48	\$161.70

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
Hydromulch, 1 ton/ac. rate {Materials Only}	1.50	ACRE	\$424.71	\$637.07
Total Mulch Materials Cost/Acre				\$637.07

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$96.80
	Total Mulch Application Cost/Acre	\$96.80

NURSERY STOCK PLANTING

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$12.59			
Reseeding Job Cost:	\$1.07			
Total Job Cost:	\$14			
Job Hours:	0.01			

Cross Go	old Mine	Pe	rmit Action:	AM-02 Bond Estimate 2022	Permit/Job	o#: <u>M1977410</u>
ROJECT	IDENTIFIC	CATION				
Task #:	038	State:	Colorado		Abbreviation:	None
Date:	1/27/2022	County:	Boulder		Filename:	M410-038
Date.	AME					

FERTILIZING

Materials

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

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	- 4	Cost /Acre

	\$
Total Seed Application Cost/Acre	\$0.00

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
Alder	10	Small potted, 2.25 inch diameter (MEANS)	\$1.60	\$2.40	\$16.00
Chokecherry	20	Small potted, 2.25 inch diameter (MEANS)	\$1.63	\$2.40	\$32.60
Currant, Squaw or Wax	20	Small potted, 2.25 inch diameter (MEANS)	\$1.63	\$2.40	\$32.60
Spruce, Blue	10	Small potted, 4.00 inch diameter (MEANS)	\$2.29	\$2.40	\$22.90
Willow, Sandbar	20	Small potted, 2.25 inch diameter (MEANS)	\$1.60	\$2.40	\$32.00
Rose, Wood's	20	Small potted, 2.25 inch diameter (MEANS)	\$4.03	\$2.40	\$80.60
		Totals	Nursery Stoc	k Cost / Acre	\$216.70

No. of Acres:	0.65	Cost /Acre:	\$216.70
Estimated Failure Rate:	25%	Cost /Acre*:	\$216.70
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$140.86
Reseeding Job Cost:	\$35.21
Total Job Cost:	
Job Hours:	0.65

Cross Go	old Mine	Pe	rmit Action:	AM-02 Bond Estimate 2022	Permit/Job	o#: <u>M1977410</u>
ROJECT	<u>IDENTIFIC</u>	CATION				
Task #:	039	State:	Colorado		Abbreviation:	None
Date:	1/27/2022	County:	Boulder		Filename:	M410-039
Date.						

FERTILIZING

Materials

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

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Black-eyed Susan	10.00	385.06	\$315.00
Penstemon, Rocky Mountain	10.00	156.74	\$295.00
Totals Seed Mix	20.00	541.80	\$610.00

Application

Description	Cost /Acre
-------------	------------

Broadcast seeding [DMG]		\$267.22
	Total Soud Application Cost/Acro	.

Total Seed Application Cost/Acre \$267.22

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
Aspen	15	Small potted, 4.00 inch diameter (MEANS)	\$1.77	\$2.40	\$26.55
Chokecherry	10	Small potted, 4.00 inch diameter (MEANS)	\$1.78	\$2.40	\$17.80
Juniper, Rocky Mountain	15	Small potted, 4.00 inch diameter (MEANS)	\$2.29	\$2.40	\$34.35
Cinquefoil, Shrubby	10	Small potted, 4.00 inch diameter (MEANS)	\$1.78	\$2.40	\$17.80
Currant, Squaw or Wax	10	Small potted, 4.00 inch diameter (MEANS)	\$1.78	\$2.40	\$17.80
Pine, Ponderosa	40	Small potted, 4.00 inch diameter (MEANS)	\$2.29	\$2.40	\$91.60
Mahogany, Mountain	15	Small potted, 4.00 inch diameter (MEANS)	\$1.78	\$2.40	\$26.70
Rose, Wood's	10	Small potted, 4.00 inch diameter (MEANS)	\$4.18	\$2.40	\$41.80
Totals Nursery Stock Cost / Acre				\$274.40	

No. of Acres:	0.14	Cost /Acre:	\$1,151.62
Estimated Failure Rate:	25%	Cost /Acre*:	\$274.40
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$161.23
Reseeding Job Cost:	\$9.60
Total Job Cost:	\$171
Job Hours:	0.14

EQUIPMENT MOBILIZATION/DEMOBILIZATION

: Cross Gold Mi	ine	Permit	Action: AM- 2022	02 Bond E		Permit/Job#	: <u>M197</u>	77410
PROJECT IDEN	NTIFICATI	<u>ON</u>						
Task #: 040		State: Co	lorado		Abbre	viation:	None	
Date: 1/28	8/2022		oulder		Fi		M410-04	40
User: AM	E	·						
Agency of	or organization	n name: DRMS						
EQUIPMENT T	<u>'RANSPOR</u>	<u>T RIG COST</u>						
					Shift ba		per day	
				(Cost Data Sour	ce: CR	G Data	
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAV TRI		DR 6Y4 DI	ESEL D	OWEBED
TIUCK	Tractor Desc	npuon. OENE	NC ON-IIIOI	WATIK	CK IKACIC	л, од4, Di	LOLL IV	O W EKED,
				400 HP	(2ND HALE	2006)		
Truch	z Trailer Desc	ription: G	ENERIC FOLI		(2ND HALF,		FOLIDA	IENT
Truck	x Trailer Desc	ription: G	ENERIC FOLI	DING GOO	SENECK, DR	ROP DECK	EQUIPN	MENT
Truck	x Trailer Desc	ription: G		DING GOO		ROP DECK	EQUIPN	MENT
Trucł <u>Cost Breakdown:</u>	< Trailer Desc	ription: G		DING GOO	SENECK, DR	ROP DECK	EQUIPN	MENT
		ription: G		DING GOO TRAILER	SENECK, DR	ROP DECK	EQUIPN	AENT
Cost Breakdown: Available Rig Ca				DING GOO TRAILER 51+	SENECK, DR (25T, 50T, AN	ROP DECK	EQUIPM	ЛЕNT
Cost Breakdown: Available Rig Ca Ownership	apacities	0-25 Tons	26-50 Tons	DING GOO TRAILER 51+ \$4	SENECK, DF (25T, 50T, AN	ROP DECK	EQUIPN	ЛЕNT
Cost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour:	0-25 Tons \$21.28	26-50 Tons \$37.94	DING GOO TRAILER 51+ \$4 \$5	SENECK, DF (25T, 50T, AN - Tons (7.67	ROP DECK	EQUIPN	AENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$21.28 \$26.55	26-50 Tons \$37.94 \$50.48	DING GOO TRAILER 51+ \$2 \$5 \$2 \$2	SENECK, DF (25T, 50T, AN • Tons • 7.67 • 56.21	ROP DECK	EQUIPN	AENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$21.28 \$26.55 \$20.54	26-50 Tons \$37.94 \$50.48 \$20.54	DING GOO TRAILER 51+ \$2 \$2 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN 7.67 66.21 20.54	ROP DECK	EQUIPN	ЛЕNT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	DING GOO TRAILER 51+ \$2 \$2 \$2 \$2 \$2 \$2	SENECK, DR (25T, 50T, AN 7.67 66.21 20.54 23.53	ROP DECK	EQUIPN	ЛЕNT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	DING GOO TRAILER 51+ \$2 \$2 \$2 \$2 \$2 \$2	SENECK, DR (25T, 50T, AN 7.67 66.21 20.54 23.53	ROP DECK	EQUIPN	ЛЕNT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT:	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49	DING GOO TRAILER 51+ \$4 \$5 \$2 \$2 \$2 \$1	SENECK, DR (25T, 50T, AN 7.67 66.21 20.54 23.53 47.95	OP DECK ND 100T)		
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig	DING GOO TRAILER 51+ \$2 \$5 \$2 \$2 \$1 \$1 Fleet	SENECK, DR (25T, 50T, AN 7.67 66.21 20.54 23.53 47.95 Haul Trip	OP DECK ND 100T) Return Tr	ip 1	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT:	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49	DING GOO TRAILER 51+ \$4 \$5 \$2 \$2 \$2 \$1	SENECK, DF (25T, 50T, AN 7.67 66.21 20.54 23.53 47.95 Haul Trip Cost/hr/	OP DECK ND 100T)	ip 1	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig Cost/hr/unit	Fleet Size	SENECK, DF (25T, 50T, AN 7.67 66.21 20.54 23.53 47.95 Haul Trip Cost/hr/ fleet	Return Tr Cost/hr/ fl	ip l leet (DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D7R DS XR	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig	DING GOO TRAILER 51+ \$2 \$5 \$2 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 7.67 66.21 20.54 23.53 47.95 Haul Trip Cost/hr/	OP DECK ND 100T) Return Tr	ip l leet (DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D7R DS XR Series II	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 32.01	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship Cost/hr/ unit \$81.02	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig Cost/hr/unit \$132.49	DING GOO TRAILER	SENECK, DF (25T, 50T, AN - Tons (7.67 (6.21) 20.54 23.53 47.95 Haul Trip Cost/hr/ fleet \$427.02	Return Tr Cost/hr/ fl \$264.98	ip l leet 0	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D7R DS XR Series II CAT 14M	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 32.01 23.57	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship Cost/hr/ unit \$81.02 \$85.80	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig Cost/hr/unit \$132.49 \$68.37	DING GOO TRAILER	SENECK, DF (25T, 50T, AN - Tons (7.67) (6.21) (0.54) (23.53) (47.95) Haul Trip Cost/hr/ fleet \$427.02 \$308.34	Return Tr Cost/hr/ fl \$264.98 \$136.74	ip l leet 0	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D7R DS XR Series II	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 32.01	0-25 Tons \$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT: Owner ship Cost/hr/ unit \$81.02	26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig Cost/hr/unit \$132.49	DING GOO TRAILER	SENECK, DF (25T, 50T, AN - Tons (7.67 (6.21) 20.54 23.53 47.95 Haul Trip Cost/hr/ fleet \$427.02	Return Tr Cost/hr/ fl \$264.98	ip I leet 0	DOT Permit Cost/ fleet

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$46.35	1	\$46.35	\$46.35
Fuel Tanker, 4x2, 170 HP	\$29.70	1	\$29.70	\$29.70
Lube Truck, 4x2, 190 HP	\$35.20	1	\$35.20	\$35.20
Light Duty Pickup, 4x4, 1 T.	\$20.51	1	\$20.51	\$20.51
Crew				
		Subtotals:	\$131.76	\$131.76

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	BOULDER 24.00 30.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$27,750.85	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$210.82	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.80 0.80	Roadable Equipment 0.80 0.80
Loading Time (Hours):	4.00	NA
Unloading Time (Hours): Subtotals:	4.00 9.60	NA 1.60

JOB TIME AND COST

Total job time: **19.20** Hours

Total job cost: \$27,962