

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

#### C1981022, Elk Creek Mine, SI-1, Adequacy letter and updated RCE

1 message

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: Doug Smith <Doug.Smith@oxbow.com>

Doug.

Please find my letter and draft Reclamation Cost Estimate attached.

Leigh Simmons Environmental Protection Specialist



Division of Reclamation Mining and Safety nt of Natural Re

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

On Thu, Aug 5, 2021 at 11:46 AM Simmons - DNR, Leigh <leigh.simmons@state.co.us> wrote: Thanks for your participation in the informal conference today. Here's my version of what was agreed:

1. Doug will work with Mike Savage to come up with a proposed failure rate for revegetated areas based on the history of re-seeding at the site

2. I will look again at the cost estimate generated with MT8 in an attempt to find cost reductions that were previously overlooked. I will review:

- Dozer push distances
- Truck and Scraper haul distances
- Demo of structures that were entirely or partially within the SL-1 or SL-4 parcels (though I think I already got everything)
- Reveg tasks 016, 120, 121 and 122: I'll remove the cost of initial seeding for areas that have received Phase II bond release, and will review costs for Mulching, Weed Spraying, Re-Savage)

3. Jim will revisit the question of bonding for structure demolition after structures have been demolished, but before the land has been Phase I released, with OSM

We also discussed some possible areas that could easily be bond released (e.g. the Silos) My best summary of how to approach future bond release applications was given in the MT8 findings so I won't duplicate it here, but I'm happy to field any follow-up questions.

Leigh Simmons





P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

On Fri, Jul 23, 2021 at 10:50 AM Simmons - DNR, Leigh <leigh.simmons@state.co.us> wrote: All.

Per the request of Oxbow Mining, LLC. an informal conference on proposed Surety Increase no. 1 (SI-1) has been scheduled for Thursday, August 5th at 10am.

The link to the video conference is meet.google.com/asf-mrur-uji

Leigh Simmons Environmental Protection Specialist COLORADO



P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

nent of Natural Reson

· Forwarded message -From: Mike Ludlow < Mike.Ludlow@oxbow.com> Date: Fri, Jul 23, 2021 at 10:05 AM Subject: RE: Informal Conference To: Simmons - DNR, Leigh <leigh.simmons@state.co.us> Cc: Doug Smith < Doug.Smith@oxbow.com>, Roy Schorsch < Roy.Schorsch@oxbow.com>, Scott Stewart < Scott.Stewart@oxbow.com>

Yes, Thursday August 5 at 10 am will work for me.

Thanks

Mike

#### 11/19/21, 11:47 AM

 From: Simmons - DNR, Leigh [mailto:leigh.simmons@state.co.us]

 Sent: Friday, July 23, 2021 9:27 AM

 To: Mike Ludlow <Mike.Ludlow@OXBOW.COM>

 Cc: Doug Smith <Doug.Smith@OXBOW.COM>; Roy Schorsch <Roy.Schorsch@OXBOW.COM>; Scott Stewart <Scott.Stewart@OXBOW.COM>

 Subject: Re: Informal Conference

 [external email-use caution]

 Thank you Mike.

 Would Thursday, August 5th at 10am work for you for the informal conference?

 Leigh Simmons

 Environmental Protection Specialist

 Image removed by sender.

 P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106

 1313 Sherman Street, Room 215, Denver, CO 80203

leigh.simmons@state.co.us | https://drms.colorado.gov

On Thu, Jul 22, 2021 at 3:45 PM Mike Ludlow <Mike.Ludlow@oxbow.com> wrote:

Leigh, please accept this email as a request for an informal hearing regarding the bonding cost calculations as calculated at the midterm permit review. I have reviewed the cost summ cost on your review calculations was \$1,974,914. I have used the divisions costs to perform the remaining tasks and have added the direct cost for the remaining work to be \$543,468 tasks crossed out that have been completed which should not be included in the remaining work to be performed. Section 3.02.2(4) requires the division to adjust the bond for the futu methodology of calculating the bond for Elk Creek does not give adequate credit for the work that has been completed. The work completed has been clearly documented in the Quar

Best Regards,

Michael W Ludlow President Oxbow Mining, LLC Elk Creek Mine P.O. Box 535 Somerset, CO 81434 970-929-5494 Office 970-261-5142 Cell

Attention: This email was sent from outside the company. Please use caution when opening attachments or clicking on links that are unexpected or arrive from unknown senders.

SI1\_Adequacy\_1.pdf 2963K



Doug Smith Oxbow Mining, LLC. PO Box 535 Somerset, CO 81434

November 18, 2021

#### Re: Elk Creek Mine (C-1981-022) Proposed Surety Increase (SI-1)

Dear Mr. Smith,

Following discussion at the SI-1 informal conference on August 5, 2021, and the subsequent approval of MR-456, I have reviewed the entire site-wide reclamation cost estimate for the Elk Creek Mine.

I edited 5 tasks from the version completed with MT-8, details are given below:

- Task 001 (Dozer)
  - Average push distance reduced from 400' to 200'
  - Direct cost reduced from \$220,672 to \$102,325
- Tasks 016, 121 and 122 (Reveg)
  - Since all areas these tasks apply to have received Phase II bond release, initial seeding costs have been removed
  - o Mulching costs have been removed
  - Re-seeding is applicable to 2% of the total acreage
  - Herbicide is applicable to 5% of the total acreage
  - Work hours = total acreage
  - Direct cost reduced from \$33,770 to \$517 (task 016); from \$82,858 to \$1033 (task 121); and from \$60,188 to \$1033 (task 122)
- Task 120 (Reveg)
  - Since this area has not yet received Phase II bond release, initial seeding costs have been retained
  - Mulching costs have been removed
  - Re-seeding is applicable to 10% of the total acreage
  - Work hours =  $2 \times 10^{-10}$  x total acreage
  - o Direct cost reduced from \$400,136 to \$88,171

I have attached a copy of the full SI-1 cost estimate. As you will see, the total dollar amount including indirect costs is estimated at \$1,755,100.

If you concur with the attached estimate I will update the record and finalize SI-1.



Sincerely,

-Λ 1

Leigh Simmons Environmental Protection Specialist

# COST SUMMARY WORK

]	Fask descrip	otion:	Updated sitewid	e estimate fo	r SI-1			
Site:	e: Elk Creek Mine		Permit Action: SI1		SI1	Permit/Job#: C1981022		
<u>P</u> ]	ROJECT	IDENTIFIC	CATION					
	Task #:	000	State:	Colorado		Abbreviation:	None	
	Date:	11/18/2021	County:	Delta		Filename:	C022-000	
	User:	LDS						

Agency or organization name: DRMS

# TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
001	Backfill and Regrade Elk Creek Facilities Area	DOZER	3	90.27	\$102,325
004	Backfill and Grade Material Used to Widen Access	DOZER	3	1.53	\$1,738
	Road				
005	Backfill and Regrade Elk Creek Mine Area	DOZER	3	101.64	\$115,215
006	Move Fill Material from Elk Creek Mine to Elk	SCRAPER1	1	45.33	\$40,628
	Creek Faciliti				
008	Backfill and Regrade Primary Riprap Borrow Area	DOZER	3	4.75	\$5,390
009	Backfill and Regrade Secondary Riprap Borrow	DOZER	3	12.05	\$13,654
	Area				
010	Backfill and Regrade Elk Creek Mine Rock Safety	DOZER	3	23.52	\$26,665
	Catch Bench				
011	Backfill and Regrade Temporary Conveyor	DOZER	3	11.87	\$13,457
	Corridor				
012	Regrade Expanded Elk Creek Mine Fan Bench	DOZER	3	1.06	\$1,197
016	Re-seed Drill Pads and Roads, 20.72 acres @ 2%	REVEGE	1	20.72	\$812
	failure rate				
023	Spread Overburden on East Refuse Pile	SCRAPER1	1	12.91	\$11,567
034	Rip All Surface Facility Areas	RIPPER	3	29.04	\$36,310
041	Regrade Lower Power Line Access Road	EXCAVATE	1	41.01	\$7,993
042	Regrade Pond C Access Road	DOZER	3	3.85	\$4,364
050	Finish Grade All Disturbed Areas	GRADER	1	53.85	\$9,411
066	Remove Upper Hubbard Creek Sediment Pond	DOZER	1	2.99	\$1,128
067	Regrade East Bench Pond	DOZER	1	0.61	\$229
068	Excavate/Backfill Pond C Wall Area	EXCAVATE	] 1	1.67	\$326
069	Regrade West Valley Fill Diversion	EXCAVATE	] 1	1.81	\$354
071	Remove Sewage Leach Field	DOZER	1	0.61	\$229
072	Regrade Pond A	DOZER	1	0.61	\$229
073	Regrade Pond B	DOZER	1	26.02	\$9,830
075	Regrade Pond E	DOZER	1	4.39	\$1,657
077	Regrade Pond F	DOZER	1	2.26	\$853
090	Replace Topsoil from Stockpile to Previously	SCRAPER1	1	1.86	\$1,670
	Disturbed Elk A				
092	Replace Topsoil from Stockpile to East Refuse Area	SCRAPER1	1	5.07	\$4,545
093	Replace Topsoil from Stockpile to West Valley Fill Area	SCRAPER1	1	27.58	\$24,724
094	Replace Topsoil from Stockpile to II-West Refuse Pile	SCRAPER1	1	5.80	\$5,195

095	Replace Topsoil from Stockpile to II West Refuse Pile Road	SCRAPER1	1	1.09	\$977
096	Replace Topsoil from Stockpile to Expanded Elk Creek Mine Fa	DOZER	3	0.13	\$152
098	Replace Topsoil from Stockpile to Elk Creek Mine Area	SCRAPER1	1	18.89	\$16,934
103	Replace Topsoil from Stockpile to Pond F, Ditches and Plunge	DOZER	1	2.86	\$1,079
120	Broadcast Seed Mine Site	REVEGE	1	216.50	\$88,281
121	Re-seed Drill Pads, MR's and TR's, 46.23 acres @ 2% failure	REVEGE	1	46.23	\$1,033
122	Re-seed Light-Use Roads, MR's and TR's, 35.59 acres @ 2% fai	REVEGE	1	35.59	\$1,522
130	Demolish and Remove All Mine Facilities	DEMOLISH	1	600.00	\$747,568
131	Plug and Seal 7 Monitoring wells	BOREHOLE	1	42.00	\$11,422
140	Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	10.00	\$25,203
141	Mobilize/Demobilize Equipment for Pond Removal	MOBILIZE	1	7.14	\$5,880
142	Mobilize/Demobilize Equipment for Site Maintenance	MOBILIZE	1	14.00	\$13,875
150	Yearly site maintenance	SITEMAINT ENANCE	1	140.00	\$12,275
		<u>SUBTC</u>	DTALS:	1669.11	\$1,367,896

# **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$27,631
Performance bond:	1.05	Total =	\$14,363
Job superintendent:	834.56	Total =	\$60,113
Profit:	10.00	Total =	\$136,790
		TOTAL O & P =	\$238,897
		CONTRACT AMOUNT (direct + O & P) = $($	\$1,606,793

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 5.23 4.00	Tota	-	\$0 \$84,035 \$64,272
CONTINGENCY:	0.00	Tota	al = _	\$0
	TC	TAL INDIRECT COS	T = _	\$387,204
TOTAL BO	ND AMO	UNT (direct + indirect	t) = _	\$1,755,100

Page 1 of 2

Task description:	Backfill and Reg	rade Elk Cr	eek raciiities Area		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTI	FICATION				
Task #: 001 Date: 11/18/202 User: LDS	State: 1 County:	Colorado Delta		Abbreviation: Filename:	None 022-001
	anization name: DF	RMS			
HOURLY EQUIPM	ENT COST				
	at D10T - 10SU				
Horsepower: 57					
• 1	emi-Universal				
Attachment: NA					
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
Cost Droundo will.			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
		\$0.00	NA		
Ripper own Cost/Hour		\$0.00	0		
Ripper own. Cost/Hour: Ripper on Cost/Hour:			0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:		\$41.30	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$377.84 \$1,133.53 TITIES		NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>80</u> ,	\$377.84 <b>\$1,133.53</b> <b>TITIES</b> 000		NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: <u>80,</u> Swell factor: <u>1.1</u>	\$377.84 <b>\$1,133.53</b> TITIES 000 25		NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: <u>80,</u> Swell factor: <u>1.1</u>	\$377.84 <b>\$1,133.53</b> <b>TITIES</b> 000		NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 80, Swell factor: 1.1 Loose volume: 90,	\$377.84 <b>\$1,133.53</b> <b>TITIES</b> 000 25 <b>000</b> LCY	\$41.30	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: <u>80,</u> Swell factor: <u>1.1</u>	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume:Appendix	\$41.30 	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 80, Swell factor: 1.11 Loose volume: 90, Source of estimated volu	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume:Appendix	\$41.30 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume: <u>Appendix</u> Cat Hand	\$41.30 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC	\$377.84 \$1,133.53 TITIES 000 25 000 LCY ume:Appendix Cat Hand CTION	\$41.30 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume: Appendix cat Hand CTION 200 feet	\$41.30	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume: Appendix cat Hand CTION 200 feet	\$41.30	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume: Appendix Cat Hand CTION 200 feet 946.0 LCY/	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume:Appendix 01 factor:Appendix Cat Hand CTION uction:200 feet 946.0 LCY/ escription:Compa	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN'         Initial Volume:       80, 500000000000000000000000000000000000	\$377.84 \$1,133.53 TITIES 000 25 000 LCY ume:Appendix 25 000 LCY ume:Appendix Cat Hand CTION uction:200 feet 946.0 LCY/ escription:Compa 5 %	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80, Swell factor:         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de	\$377.84 <b>\$1,133.53</b> TITIES 000 25 000 LCY ume:Appendix 01 factor:Appendix Cat Hand CTION uction:200 feet 946.0 LCY/ escription:Compa	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN'         Initial Volume:       80, 500000000000000000000000000000000000	\$377.84 \$1,133.53 TITIES 000 25 000 LCY ume:Appendix 25 000 LCY ume:Appendix Cat Hand CTION uction:200 feet 946.0 LCY/ escription:Compa 5 %	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       80,         Swell factor:       1.1         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly produce         Average push gradient:         Average site altitude:	\$377.84 \$1,133.53 TITIES 000 25 000 LCY ume:Appendix 01 factor:Cat Hand CTION uction:200 feet 946.0 LCY/ escription:Compa 5 % 6,150 feet	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       80,         Swell factor:       1.1         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly product         Materials consistency de         Average site altitude:         Material weight:         Weight description:         Job Condition Correctio	\$377.84 <b>\$1,133.53</b> <b>TITIES</b> 000 25 <b>000</b> LCY ume: <u>Appendix</u> 21 factor: <u>Cat Hand</u> <b>Cat Hand</b> <b>Cat Hand</b>	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       80,         Swell factor:       1.1         Loose volume:       90,         Source of estimated volu         Source of estimated swe         HOURLY PRODUC         Average push distance:         Unadjusted hourly product         Materials consistency de         Average site altitude:         Material weight:         Weight description:	\$377.84 <b>\$1,133.53</b> <b>TITIES</b> 000 25 <b>000</b> LCY ume: <u>Appendix</u> 21 factor: <u>Cat Hand</u> <b>Cat Hand</b> <b>Cat Hand</b>	\$41.30	  mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80,         Swell factor:       1.11         Loose volume:       90,         Source of estimated volu         Source of estimated swee         HOURLY PRODUC         Average push distance:         Unadjusted hourly product         Materials consistency det         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist	$\begin{array}{c c} \$377.84 \\ \hline \$1,133.53 \\ \hline \\ \hline \\ \hline \\ \hline \\ \$1,133.53 \\ \hline \\ $	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       80,         Swell factor:       1.11         Loose volume:       90,         Source of estimated volu         Source of estimated swee         HOURLY PRODUC         Average push distance:         Unadjusted hourly product         Materials consistency defined         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist         Dozing m	$\begin{array}{c c} \$377.84 \\ \hline \$1,133.53 \\ \hline \\ \hline \\ \hline \\ \hline \\ \$1,133.53 \\ \hline \\ $	\$41.30 			

Job efficiency	: 0.830	(1 SHIFT/DAY)
Spoil pile	: 0.800	(FND-RF)
Push gradient	: 0.903	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	: 0.868	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.3513	
Adjusted unit production:	332.33 LCY/hr	
Adjusted fleet production:	996.99 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$1.137/LCY

Total job time:	<b>90.27</b> Hours
Total job cost:	\$102,325

Elk Creek Mine	Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	ICATION				
Task #: 004	State:	Colorado		Abbreviation:	None
Date: $11/18/2021$		Delta		Filename:	022-004
User: LDS	County.	Della		T nename.	022 004
Agency or organ	nization name: DF	RMS			
HOURLY EQUIPME					
Basic Machine: Cat Horsepower: 574	t D10T - 10SU				
1	ni-Universal				
Attachment: NA					
	er day				
	RG)				
	,				
Cost Breakdown:		1			
0 11 0		¢1.coco	<u>Utilization %</u>		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
MATERIAL QUANT					
Initial Volume: 1,60	0				
Initial Volume: Swell factor:	0				
Initial Volume: 1,60 Swell factor: 1.16	0				
Initial Volume:1,60Swell factor:1.16Loose volume:1,86	0 5 4 LCY	  I Revision 21			
Initial Volume: Swell factor:	0 5 <b>4</b> LCY me: <u>Technica</u>	  l Revision 21 book			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volume	0 5 <b>4</b> LCY me: <u>Technica</u>				
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: <b>1,86</b> Source of estimated volue Source of estimated swell	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u>				
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT	0 5 4 LCY me: <u>Technica</u> l factor: <u>Cat Hand</u>				
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: <b>1,86</b> Source of estimated volu Source of estimated swell HOURLY PRODUCT	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> <u><b>FION</b> 125 feet</u>	book			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> <u><b>FION</b> 125 feet</u>	book			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: <b>1,86</b> Source of estimated volu Source of estimated swell HOURLY PRODUCT	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> <u><b>FION</b> ction: <u>1,450.0 LC</u></u>	book Y/hr	 		
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	0 5 4 LCY me: <u>Technica</u> l factor: <u>Cat Hand</u> <u><b>FION</b> ction: <u>125 feet</u> 1,450.0 LC scription: <u>Compa</u></u>	book Y/hr			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	0 5 4 LCY me: Technica 1 factor: Cat Hand FION ction: 125 feet 1,450.0 LC scription: Compa 10 %	book Y/hr			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	0 5 4 LCY me: <u>Technica</u> l factor: <u>Cat Hand</u> <u><b>FION</b> ction: <u>125 feet</u> 1,450.0 LC scription: <u>Compa</u></u>	book Y/hr			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	0 5 4 LCY me: Technica 1 factor: Cat Hand FION ction: 125 feet 1,450.0 LC scription: Compa 10 %	book Y/hr			
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	0 5 4 LCY me: Technica 1 factor: Cat Hand FION ction: 125 feet 1,450.0 LC scription: Compa 10 % 6,100 feet	book Y/hr 	mbankment 0.9		
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> FION ction: <u>125 feet</u> 1,450.0 LC scription: <u>Compa</u> <u>10 %</u> 6,100 feet 2,900 lbs/LCY Decomposed rock	book Y/hr 	 mbankment 0.9		
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> FION ction: <u>125 feet</u> 1,450.0 LC scription: <u>Compa</u> <u>10 %</u> 6,100 feet 2,900 lbs/LCY Decomposed rock Factor	book Y/hr 	 mbankment 0.9 , 50% Earth Source		
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> 125 feet ction: <u>1,450.0 LC</u> scription: <u>Compa</u> <u>10 %</u> <u>6,100 feet</u> <u>2,900 lbs/LCY</u> <u>Decomposed rock</u> <u>Factor</u> Skill: <u>0.</u>	book Y/hr 	 mbankment 0.9		
Initial Volume: 1,60 Swell factor: 1.16 Loose volume: 1,86 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	0 5 4 LCY me: <u>Technica</u> 1 factor: <u>Cat Hand</u> <b>FION</b> ction: <u>125 feet</u> ction: <u>1,450.0 LC</u> scription: <u>Compa</u> <u>10 %</u> <u>6,100 feet</u> <u>2,900 lbs/LCY</u> <u>Decomposed rock</u> <u>Factor</u> Skill: <u>0.</u> ency: <u>0.</u>	book Y/hr 	 mbankment 0.9 . 50% Earth Source (AVG.)		

Job efficienc	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradier	nt: 0.786	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigl	nt: 0.793	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.2794	
Adjusted unit production:	405.13 LCY/hr	
Adjusted fleet production:	1215.39 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$0.933/LCY

Total job time:	<b>1.53</b> Hours
Total job cost:	\$1,738

	Ducin	in and Keg	raue Eik Cr	eek Mine Area		
Elk Creek Mine		Peri	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENT	<b>FIFICATIO</b>	N				
Task #: 005		State:	Colorado		Abbreviation:	None
Date: $11/18/2$	2021	County:	Delta		Filename:	022-005
User: LDS		county.				022 000
Agency or c	organization n	ame: DR	RMS			
HOURLY EQUIP	MENT CO	<u>ST</u>				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574					
Blade Type:	Semi-Univer	rsal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Ho	our:		\$169.60	NA		
Operating Cost/Ho			\$166.94	100		
Ripper own. Cost/Ho			\$0.00	NA		
Ripper op. Cost/Ho	our:		\$0.00	0		
Operator Cost/Ho	our:		\$41.30	NA		
Fotal unit Cost/Hour:	: \$377.8					
Fotal Fleet Cost/Hour						
Fotal Fleet Cost/Hour	r: <b>\$1,133</b>					
MATERIAL QUA	r: \$1,133					
MATERIAL QUA	r: <b>\$1,133</b> ANTITIES 88,000					
MATERIAL QUA Initial Volume: Swell factor:	r: <b>\$1,133</b> ANTITIES 88,000 1.165	.53				
MATERIAL QUA Initial Volume: Swell factor: Loose volume:	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY	.53				
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v	r: <b>\$1,133</b> ANTITIES 88,000 1.165 102,520 LCY volume:	Operator				
MATERIAL QUA Initial Volume: Swell factor: Loose volume:	r: <b>\$1,133</b> ANTITIES 88,000 1.165 102,520 LCY volume:	.53				
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor:	Operator				
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor:	Operator				
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU	r: <b>\$1,133</b> ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION	.53 Operator Cat Hand				
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce:	Operator Cat Hand 200 feet	book			
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce:	.53 Operator Cat Hand	book			
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU	xr:       \$1,133         ANTITIES         88,000         1.165         102,520 LCY         volume:         swell factor:         UCTION         ce:         coduction:	.53 Operator Cat Hand 200 feet 946.0 LCY/	book hr	  mbankment 0.9		
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distanc Unadjusted hourly pr Materials consistency	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: y description:	.53 Operator Cat Hand 200 feet 946.0 LCY/	book hr	  mbankment 0.9		
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: y description: nt: 0 %	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa	book hr	  mbankment 0.9		
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distanc Unadjusted hourly pr Materials consistency	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: y description: nt: 0 %	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa	book hr	  mbankment 0.9		
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency	xr:       \$1,133         ANTITIES         88,000         1.165         102,520 LCY         volume:         swell factor:         UCTION         ce:         coduction:         y description:         nt:       0 %         :       6,300 f	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa	book hr	  mbankment 0.9		
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated s HOURLY PRODU Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude:	antime       \$1,133         antime       \$8,000         1.165       102,520 LCY         volume:       \$well factor:         wolume:       \$well factor:         UCTION       \$\$         ce:       \$\$         roduction:       \$\$         y description:       \$\$         nt: $0$ %         : $6,300$ f         2,900 1       \$\$	Operator Cat Hand 200 feet 946.0 LCY/ Compa Feet bs/LCY	book hr			
MATERIAL QUA Initial Volume:	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: nt: 0 % cf,300 f 2,900 f Decom	Operator Cat Hand 200 feet 946.0 LCY/ Compa Feet bs/LCY	book hr 			
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Iob Condition Correct	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: nt: 0 % cf,300 f 2,900 f Decom	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa Feet bs/LCY aposed rock	book hr 	, 50% Earth		
MATERIAL QUA Initial Volume: 2 Swell factor: 2 Loose volume: 2 Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distanc Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Iob Condition Correct	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: y description: nt:0 % :6,300 f 2900 1  ction Factor ator Skill:	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa Seet bs/LCY aposed rock 0.	book hr cted fill or en  - 50% Rock,	, 50% Earth Source	1	
MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Iob Condition Correcc Opera Material cor	r: \$1,133 ANTITIES 88,000 1.165 102,520 LCY volume: swell factor: UCTION ce: roduction: y description: nt:0 % :6,300 f 2900 1  ction Factor ator Skill:	.53 Operator Cat Hand 200 feet 946.0 LCY/ Compa Čeet bs/LCY posed rock 0. 0.	book hr cted fill or en - 50% Rock, 750	. 50% Earth Source (AVG.)	3))	

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	0.800	(FND-RF)
Push gradient	t: 1.000	(CAT HB)
Altitude	2: 1.000	(CAT HB)
Material Weight	t: 0.793	(CAT HB)
Blade type	2: 1.000	(PAT)
Net correctior	n: 0.3554	
Adjusted unit production:	336.21 LCY/hr	
Adjusted fleet production:	1008.63 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$1.124/LCY

Total job time:	101.64 Hours
Total job cost:	\$115,215

# SCRAPER TEAM WORK

HOURLY EQUIPM	St 021 Cou rganization name:	tate: <u>Colorado</u> nty: <u>Delta</u> DRMS		Abbrevia	ation: <u>None</u> name: <u>022-006</u>	
Date: <u>11/18/20</u> User: <u>LDS</u> Agency or or <u>HOURLY EQUIPN</u>	021 Cou rganization name:	nty: Delta				
User: LDS Agency or or HOURLY EQUIPN	rganization name:	•		Filer	name: 022-006	5
HOURLY EQUIPM	-	DRMS				
	<u>MENT</u>					
Support			COSTSh	nift basis: <u>1 per day</u>	<u>/</u>	
Support		Equipme	nt Description			
Support		craper: Cat 637	G w/push-pull			
	t Equipment -Load	Dozer: NA Area: NA				
	-Dump	Area: NA				
Road Mair	ntenance –Motor G -Water					
	- water	TTUCK: NA				
Cost Breakdown:	Scraper Worl	k Team	Support Equip		Maintenance H	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water T
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$223.48	NA	NA	NA	NA	
Operating cost/hour:	\$193.77	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$448.15	NA	NA	NA	NA	
Number of Units:	2	0	0	0	0	
Group Subtotals:	Work:	\$896.30	Support:	\$0.00	Maint:	\$0.00
Total work team cost/l	hour: <u><b>\$896.30</b></u>					
MATERIAL QUA	<u>NTITIES</u>					
Initial volume:	22,000	CCY	Swell fact	or: <u>1.125</u>		
Loose volume:	24,750	LCY				
	ce of estimated vol f estimated swell fa					
Source of	commated Swell la		IUUUK			
HOURLY PRODU	UCTION					
			Scraper Bo	owl (volume) Basis:	:	
Material weight:	2,650 lbs/LCY			Volume: 24.00	<u>-</u> LC	v
	Decomposed rock	- 25% Rock,	Heaped V			
Material description:	75% Earth					

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Competions	0.820	NIA	
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2800.00	-10.00	5.00	-5.00	2972	0.99

Haul Time: **0.99** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2800.00	10.00	5.00	15.00	1047	2.70

Return Time:	2.70	minutes
Total Scraper team cycle time:	5.29	minutes
Adjusted for job conditions:	546.01	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	546.01	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	546.01	LCY/Hour
Unadjusted unit production/hour: 657.84 I CV/Hour		

Unadjusted unit production/hour: 657.84 LCY/Hour Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	45.33	Hours
Unit cost:	\$1.642	/LCY	Total job cost:	\$40,628	_

		<b>,</b>	y Riprap Borrow Area		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 008	State:	Colorado		Abbreviation:	None
Date: $11/18/2021$		Delta		Filename:	022-008
User: LDS	County.	Dena	,	i nename.	022 000
Agency or orga	nization name:]	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D10T - 10SU				
Horsepower: 574	4				
Blade Type: Sei	mi-Universal				
Attachment: NA	1				
Shift Basis: 1 p	er day				
Data Source: (Cl	RG)				
Cost Breakdown:					
<u></u>			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
MATERIAL QUANT					
Initial Volume: 1,50	0				
Swell factor: 1.16	55				
Swell factor: 1.16					
Swell factor:1.16Loose volume:1,74	5 8 LCY				
Swell factor:1.16Loose volume:1,74Source of estimated volu	5 8 LCY me:Map 18	  Ibook			
Swell factor:1.16Loose volume:1,74	5 8 LCY me:Map 18	lbook			
Swell factor:1.16Loose volume:1,74Source of estimated volu	5 8 LCY me: <u>Map 18</u> 1 factor: <u>Cat Hanc</u>	lbook			
Swell factor: 1.16 Loose volume: 1,74 Source of estimated volu Source of estimated swel HOURLY PRODUCT	5 <b>8</b> LCY me: <u>Map 18</u> 1 factor: <u>Cat Hanc</u> <u><b>FION</b></u>	lbook			
Swell factor: 1.16 Loose volume: 1,74 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	5 <b>8</b> LCY me: <u>Map 18</u> 1 factor: <u>Cat Hanc</u> <u><b>FION</b></u> <u>200 feet</u>				
Swell factor: 1.16 Loose volume: 1,74 Source of estimated volu Source of estimated swel HOURLY PRODUCT	5 <b>8</b> LCY me: <u>Map 18</u> 1 factor: <u>Cat Hanc</u> <u><b>FION</b></u> <u>200 feet</u>				
Swell factor: 1.16 Loose volume: 1,74 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	5 8 LCY me: <u>Map 18</u> 1 factor: <u>Cat Hanc</u> FION 200 feet ction: <u>946.0 LCY</u>		stockpile 1.1		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency destance	5         18 LCY         me:       Map 18         1 factor:       Cat Hand <b>TION</b> ction:       200 feet         946.0 LCY         scription:       Partly	/hr	stockpile 1.1		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency dest         Average push gradient:       Source and standard	5         18 LCY         me:       Map 18         1 factor:       Cat Hand <b>TION</b> ction:       200 feet         946.0 LCY         scription:       Partly         _30 %	/hr	stockpile 1.1		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency destance	5         18 LCY         me:       Map 18         1 factor:       Cat Hand <b>TION</b> ction:       200 feet         946.0 LCY         scription:       Partly	/hr	stockpile 1.1		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency dest         Average push gradient:       Source and standard	5         18 LCY         me:       Map 18         1 factor:       Cat Hand <b>TION</b> ction:       200 feet         946.0 LCY         scription:       Partly         _30 %	/hr	stockpile 1.1		
Swell factor:1.16Loose volume:1,74Source of estimated voluSource of estimated swelHOURLY PRODUCTAverage push distance:Unadjusted hourly produMaterials consistency desAverage push gradient:Average site altitude:	55         8 LCY         me:       Map 18         1 factor:       Cat Hand         FION       200 feet         ction:       946.0 LCY         scription:       Partly         30 %       6,400 feet	/hr consolidated s			
Swell factor:1.16Loose volume:1,74Source of estimated voluSource of estimated swelHOURLY PRODUCTAverage push distance:Unadjusted hourly produMaterials consistency desAverage push gradient:Average site altitude:Material weight:Weight description:Job Condition Correction	55         8 LCY         me:       Map 18         1 factor:       Cat Hand         FION       200 feet         ction:       946.0 LCY         scription:       Partly         30 %       6,400 feet         2,900 lbs/LCY       Decomposed rock         Factor       Pactor	/hr consolidated s	50% Earth Source		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator	55         8 LCY         me:       Map 18         1 factor:       Cat Hand         FION       200 feet         ction:       946.0 LCY         scription:       Partly        30 %	/hr consolidated s	50% Earth Source (AVG.)		
Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency dest         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator         Material consist       Operator	55         8 LCY         me:       Map 18         1 factor:       Cat Hand         I factor:       200 feet         ction:       946.0 LCY         scription:       Partly        30 %	/hr consolidated s	50% Earth <u>Source</u> (AVG.) (CAT HB)		
Swell factor: 1.16 Loose volume: 1,74 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	S5         8 LCY         me:       Map 18         1 factor:       Cat Hand         I factor:       200 feet         ction:       946.0 LCY         scription:       Partly         30 %       6,400 feet         2,900 lbs/LCY       Decomposed rock         Factor       Skill:       0         ency:       1	/hr consolidated s	50% Earth Source (AVG.)		

	· · · · · · · · · · · · · · · · · · ·	
Job efficience	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 0.298	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weight	nt: 0.793	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.1295	
Adjusted unit production:	122.51 LCY/hr	
Adjusted fleet production:	367.53 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$3.084/LCY

Total job time:	<b>4.75</b> Hours
Total job cost:	\$5,390

			lary Riprap Borrow Ar		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	FICATION				
Task #: 009	State:	Colorado		Abbreviation:	None
Date: $11/18/202$		Delta		Filename:	022-009
User: LDS	<u> </u>	Donu		-	022 00)
Agency or orga	anization name: DF	RMS			
HOURLY EQUIPMI	ENT COST				
Basic Machine: Ca	at D10T - 10SU				
Horsepower: 57-					
Blade Type: Se	emi-Universal				
Attachment: NA					
	per day				
Data Source: (C	(RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Fotal Fleet Cost/Hour:	<u>\$1,133.53</u>				
MATERIAL QUANT	TITIES				
	<b><u>TITIES</u></b> 00				
MATERIAL QUAN Initial Volume: 3,80 Swell factor: 1.10	<b><u>TITIES</u></b> 00				
MATERIAL QUANTInitial Volume:3,80Swell factor:1.10Loose volume:4,42	TITIES       00       65       27 LCY				
MATERIAL QUANTInitial Volume:3,80Swell factor:1.10Loose volume:4,42Source of estimated volu	TITIES           00           65           27 LCY           ime:        Map 18				
MATERIAL QUANTInitial Volume:3,80Swell factor:1.10Loose volume:4,42	TITIES           00           65           27 LCY           ime:        Map 18	  lbook			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       Swell         Source of estimated swell       Swell	TITIES           00           65           27 LCY           ume:         Map 18           11 factor:         Cat Hand	  lbook			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       100	TITIES         00         65         27 LCY         1me:       Map 18         11 factor:       Cat Hand         CTION	  lbook			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC       Average push distance:	TITIES         00         65         27 LCY         1me:       Map 18         11 factor:       Cat Hand         TION        200 feet				
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       100	TITIES         00         65         27 LCY         1me:       Map 18         11 factor:       Cat Hand         TION        200 feet				
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC       Average push distance:	ITTIES           00           65           27 LCY           ime:         Map 18           11 factor:         Cat Hand           TION           200 feet           uction:         946.0 LCY/	/hr	stockpile 1.1		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       300         Source of estimated swell       300         HOURLY PRODUCC       Average push distance:         Unadjusted hourly produ       Materials consistency de	ITTIES           00           65           27 LCY           Ime:         Map 18           11 factor:         Cat Hand           TION           action:         200 feet           946.0 LCY/           escription:         Partly of	/hr	  stockpile 1.1		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       300         Source of estimated swell       300         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       300         Materials consistency de       300         Average push gradient:       300	TITIES         00         65         27 LCY         ume:       Map 18         11 factor:       Cat Hand         TION         action:       200 feet         action:       946.0 LCY/         escription:       Partly of         30 %	/hr	stockpile 1.1		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       300         Source of estimated swell       300         HOURLY PRODUCC       Average push distance:         Unadjusted hourly produ       Materials consistency de	ITTIES           00           65           27 LCY           Ime:         Map 18           11 factor:         Cat Hand           TION           action:         200 feet           946.0 LCY/           escription:         Partly of	/hr			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       300         Source of estimated swell       300         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       300         Materials consistency de       300         Average push gradient:       300	TITIES         00         65         27 LCY         ume:       Map 18         11 factor:       Cat Hand         TION         action:       200 feet         action:       946.0 LCY/         escription:       Partly of         30 %       30 %	/hr			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       3000000000000000000000000000000000000	TITIES         00         65         27 LCY         ame:       Map 18         11 factor:       Cat Hand         200 feet         action:       946.0 LCY/         escription:       Partly of         30 %       6,400 feet	/hr consolidated			
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       Source of estimated swell         BOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Initial Weight Correction       Initial weight:	TITIES         00         65         27 LCY         ime:       Map 18         Il factor:       Cat Hand         TION         action:       200 feet         946.0 LCY/         escription:       Partly of         30 %       6,400 feet         2,900 lbs/LCY       Decomposed rock         n Factor       Partly	/hr consolidated  - 50% Rock,	50% Earth		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       Source of estimated volu         Source of estimated swell       Source         HOURLY PRODUCC       Average push distance:         Unadjusted hourly produce       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator	TITIES         00         65         27 LCY         Ime: Map 18         Il factor: Cat Hand         TION         action: $200$ feet         action: Partly of         action: Partly of $30 \%$ $6,400$ feet $2,900$ lbs/LCY         Decomposed rock         n Factor         Skill: $0.$	/hr consolidated  - 50% Rock, 750	50% Earth		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.10         Loose volume:       4,42         Source of estimated volu       Source of estimated sweld         Source of estimated sweld       Source         HOURLY PRODUCC       Average push distance:         Unadjusted hourly product       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator         Material consist       Operator	TITIES           00           65           27 LCY           ime:         Map 18           ll factor:         Cat Hand           TION           action:         200 feet           action:         946.0 LCY/           escription:         Partly of           30 %         6,400 feet           2,900 lbs/LCY         Decomposed rock           n Factor         0.           Skill:         0.           tency:         1.	/hr consolidated  - 50% Rock, 750 100	, 50% Earth <u>Source</u> (AVG.) (CAT HB)		
MATERIAL QUANT         Initial Volume:       3,80         Swell factor:       1.16         Loose volume:       4,42         Source of estimated volu       Source of estimated sweld         Source of estimated sweld       Source         HOURLY PRODUCC       Average push distance:         Unadjusted hourly product       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator         Material consist       Dozing material	<b>TITIES</b> 00         65 <b>27</b> LCY         Ime: Map 18         Il factor: Cat Hand <b>TION 200</b> feet         action: 946.0 LCY/         escription: Partly of         30 %         6,400 feet         2,900 lbs/LCY         Decomposed rock         n Factor         · Skill:       0.         tency: 1.         ethod:       1.	/hr consolidated  - 50% Rock, 750	50% Earth		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.1295	
Adjusted unit production: 12	22.51 LCY/hr	
Adjusted fleet production: <b>36</b>	67.53 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$3.084/LCY

Total job time:	12.05 Hours
Total job cost:	\$13,654

Page 1 of 2

Task description:	Backfill and Reg				
Elk Creek Mine	Per	rmit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENT	<b>IFICATION</b>				
Task #: 010	State:	Colorado		Abbreviation:	None
Date: $11/18/20$		Delta		Filename:	022-010
User: LDS	<u>21</u> County:	Dona		<u> </u>	022 010
	ganization name: D	RMS			
Agency of or	gamzation name	<u>KW</u> S			
HOURLY EQUIPN	MENT COST				
	Cat D10T - 10SU				
	574				
· · ·	Semi-Universal				
	NA				
	l per day		_		
Data Source: (	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour		\$169.60	NA		
Operating Cost/Hou		\$166.94	100		
Ripper own. Cost/Hou		\$0.00	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou	r:	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUAN					
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1</u> .	\$1,133.53 NTITIES 1,100 .165				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>11</u> Swell factor: <u>1</u> .	\$1,133.53 NTITIES 1,100				
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated volume:       12	\$1,133.53 NTITIES 1,100 .165 2,932 LCY olume:Division	Estimate			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12	\$1,133.53 NTITIES 1,100 .165 2,932 LCY olume:Division				
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw	\$1,133.53 NTITIES 1,100 .165 2,932 LCY blume: Division vell factor: Cat Hance				
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU	\$1,133.53          \$1,133.53         NTITIES         1,100         .165         2,932 LCY         blume:       Division         vell factor:       Cat Hance         CTION				
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         blume:       Division         vell factor:       Cat Hance         CTION         :       200 feet	dbook			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       10	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         blume:       Division         vell factor:       Cat Hance         CTION         :       200 feet	dbook			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hance         CTION         :       200 feet         duction:       946.0 LCY	dbook //hr	   nbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Unadjusted hourly proof       Materials consistency of	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hand         CTION         :       200 feet         duction:       946.0 LCY         description:       Compare	dbook //hr	  nbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Unadjusted hourly production       Materials consistency of a standard system	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         blume:       Division         vell factor:       Cat Hand         CTION         :       200 feet         duction:       946.0 LCY         description:       Compa         :       20 %	dbook //hr	   nbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Unadjusted hourly proof       Materials consistency of	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hand         CTION         :       200 feet         duction:       946.0 LCY         description:       Compare	dbook //hr	  nbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Unadjusted hourly production       Materials consistency of a standard system	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         blume:       Division         vell factor:       Cat Hand         CTION         :       200 feet         duction:       946.0 LCY         description:       Compa         :       20 %	dbook //hr	  nbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Materials consistency of Average push gradient       Average site altitude:	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hance         CTION         :       200 feet         duction:       946.0 LCY         description:       Compa         :       20 %         6,700 feet	dbook //hr acted fill or er			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU       Average push distance         Unadjusted hourly prod       Materials consistency of a stimulation of a state state a state a stimulation of a state state of a stimulation of a state state state of a state state of a state state state of a state st	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hance         CTION         :       200 feet         duction:       946.0 LCY         description:       Compa         :       20 %         6,700 feet       2,900 lbs/LCY         Decomposed rock	dbook //hr acted fill or er			
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated vo         Source of estimated sw       HOURLY PRODU         Average push distance       Unadjusted hourly prod         Materials consistency of       Average push gradient         Average site altitude:       Material weight:         Weight description:       Lob Condition Correcting	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hance         CTION         :       200 feet         duction:       946.0 LCY         description:       Compa         :       20 %	dbook //hr acted fill or er	50% Earth		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU         Average push distance         Unadjusted hourly proof         Materials consistency of         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operate         Material cons	\$1,133.53         NTITIES         1,100         .165         2,932 LCY         olume:       Division         vell factor:       Cat Hand         CTION         :       200 feet         duction:       946.0 LCY         description:       Compation         :       20 %	dbook //hr acted fill or er  x - 50% Rock, 0.750 0.900	50% Earth		
Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       11         Swell factor:       1.         Loose volume:       12         Source of estimated vo       Source of estimated sw         HOURLY PRODU         Average push distance         Unadjusted hourly prod         Materials consistency of         Average push gradient         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operate         Material cons         Dozing ref	\$1,133.53NTITIES1,100.1652,932 LCYolume:Divisionvell factor:Cat HandcTION:200 feetduction:946.0 LCYdescription:Compa:20 %6,700 feet2,900 lbs/LCYDecomposed rockion Factoror Skill:0method:1	dbook //hr acted fill or er  x - 50% Rock, 0.750	50% Earth Source (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.1937	
Adjusted unit production: 1	83.24 LCY/hr	
Adjusted fleet production: 5	49.72 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$2.062/LCY

Total job time:	23.52 Hours
Total job cost:	\$26,665

Page 1 of 2

Task description:	Backfill and Reg	rade Tempo	orary Conveyor Corrie	lor	
Elk Creek Mine	Peri	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 011 Date: 11/18/2021 User: LDS	State: County:	Colorado Delta		Abbreviation: Filename:	None 022-011
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	ENT COST				
	D10T - 10SU				
Horsepower: 574					
Blade Type: Sen Attachment: NA	ni-Universal				
	er day				
Data Source: (CF	<u>,</u>				
	(0)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00	0		
Ripper op. Cost/Hour:		¢ 11 20	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$377.84 <b>\$1,133.53</b>	\$41.30			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u>	\$1,133.53 <u>TTIES</u>	\$41.50	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:7,40	\$1,133.53 TTIES 0	\$41.3U	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16	\$1,133.53 TTIES 0 5		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16	\$1,133.53 TTIES 0				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum	\$1,133.53 TTIES 0 5 1 LCY me:Operator	Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62	\$1,133.53 TTIES 0 5 1 LCY me:Operator	Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell	\$1,133.53 <b>TTIES</b> 0         5         1 LCY         me:       Operator         1 factor:       Cat Hand	Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum	\$1,133.53 <b>TTIES</b> 0         5         1 LCY         me:       Operator         1 factor:       Cat Hand	Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$1,133.53 TTIES 0 5 1 LCY me: Operator 1 factor: Cat Hand FION	Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         CION         250 feet	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         CION         250 feet	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand <b>EION</b> ction:       250 feet         754.3 LCY/	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand <b>EION</b> ction:       250 feet         754.3 LCY/	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         Cat Hand         CION         ction:       250 feet         754.3 LCY/         scription:       Compa	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         FION         ction:       250 feet         ction:       754.3 LCY/         scription:       Compa         5 %	Estimate book			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         FION         ction:       250 feet         ction:       754.3 LCY/         scription:       Compa         5 %       6,250 feet	Estimate book hr cted fill or en	  mbankment 0.9		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         FION         ction:       250 feet         ction:       754.3 LCY/         scription:       Compa         5 %       6,250 feet         2,900 lbs/LCY       Decomposed rock	Estimate book hr cted fill or en	  mbankment 0.9		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         FION         ction:       250 feet         ction:       754.3 LCY/         scription:       Compa         5 %       6,250 feet         2,900 lbs/LCY       Decomposed rock         Factor       Factor	Estimate book hr cted fill or en 			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volut Source of estimated volut Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator 3	\$1,133.53         TTIES         0         5         1 LCY         me:       Operator         1 factor:       Cat Hand         Cat Hand         Composed feet         ction:       250 feet         ction:       250 feet         ction:       Compa         5 %       6,250 feet         2,900 lbs/LCY       Decomposed rock         Factor       Skill:       0.	Estimate book hr cted fill or en			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,40 Swell factor: 1.16 Loose volume: 8,62 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$1,133.53TTIES051 LCYme:Operator1 factor:Cat HandCat HandCompaction: $\frac{250 \text{ feet}}{754.3 \text{ LCY/}}$ scription:Compa $\frac{5 \%}{6,250 \text{ feet}}$ 2,900 lbs/LCYDecomposed rockFactorSkill:0.ency:0.	Estimate book hr cted fill or en 			

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(FND-RF)
Push gradie	nt:	0.903	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weig	ht:	0.793	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3209	
Adjusted unit production:	24	2.05 LCY/hr	
Adjusted fleet production:	72	6.15 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$1.561/LCY
Unit cost:	\$1.501/LC I

Total job time:	<b>11.87</b> Hours
Total job cost:	\$13,457

Page 1 of 2

Task description:	Regrade Expand	ieu Eik Ciee	k white Fair Denen		
Elk Creek Mine	Peri	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	TICATION				
Task #:         012           Date:         11/18/202           User:         LDS	State: 1 County:	Colorado Delta		Abbreviation: Filename:	None 022-012
Agency or orga	nization name: DR	RMS			
HOURLY EQUIPMI	ENT COST				
	tt D10T - 10SU				
Horsepower: 57					
••	mi-Universal				
	ber day				
1	RG)				
	NU)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
		\$0.00	NA		
Ripper own. Cost/Hour:		\$0.00	0		
Ripper op. Cost/Hour:					
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$377.84 \$1,133.53	\$41.30	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$1,133.53 <u>FITIES</u>				
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:1,50	\$1,133.53 FITIES 00				
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16	\$1,133.53 FITIES 00				
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,72	\$1,133.53 FITIES 00 65 48 LCY	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:         1,50         Swell factor:         1,74         Source of estimated volu	\$1,133.53 <b><u>FITIES</u></b> 00 55 <b>18</b> LCY ume:Operator	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,72	\$1,133.53 <b>FITIES</b> 00 55 <b>48</b> LCY ume:Operator	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.10         Loose volume:       1,74         Source of estimated volu       Source of estimated swell	\$1,133.53 FITIES 00 55 48 LCY Ime: Operator Il factor: Cat Hand	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:         1,50         Swell factor:         1,74         Source of estimated volu	\$1,133.53 FITIES 00 55 48 LCY Ime: Operator Il factor: Cat Hand	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1,10         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC       Average push distance:	\$1,133.53 <u>FITIES</u> 00 55 48 LCY 100 feet 100 feet	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.10         Loose volume:       1,72         Source of estimated volu       Source of estimated swell         HOURLY PRODUCC       100	\$1,133.53 <u>FITIES</u> 00 55 48 LCY 100 feet 100 feet	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1,10         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCC       Average push distance:	\$1,133.53         FITIES         00         55         48 LCY         ume:       Operator         11 factor:       Cat Hand         TION         action:       100 feet         1,718.9 LCY	\$41.30  Estimate book			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ         Materials consistency de         Average push gradient:	\$1,133.53 <b>FITIES</b> 00 55 <b>18</b> LCY Ime: Operator If factor: Cat Hand <b>TION</b> iction: 100 feet 1,718.9 LC scription: Compa 5 %	\$41.30  Estimate book	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ         Materials consistency de	\$1,133.53         FITIES         00         55         48 LCY         ume:       Operator         11 factor:       Cat Hand         TION         action:       100 feet         1,718.9 LC*         escription:       Compa	\$41.30  Estimate book	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ         Materials consistency de         Average push gradient:	\$1,133.53 <b>FITIES</b> 00 55 <b>18</b> LCY Ime: Operator If factor: Cat Hand <b>TION</b> iction: 100 feet 1,718.9 LC scription: Compa 5 %	\$41.30  Estimate book	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.10         Loose volume:       1,74         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:	\$1,133.53 <b>FITIES</b> 00         55 <b>48</b> LCY         ume:       Operator         11 factor:       Cat Hand <b>TION</b> action:       100 feet         action:       1,718.9 LCY         escription:       Compa <u>5</u> %       7,500 feet	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.10         Loose volume:       1,72         Source of estimated volu         Source of estimated swel         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average site altitude:         Material weight:	\$1,133.53         ITTIES         00         55         48 LCY         ume:       Operator         11 factor:       Cat Hand         TION         action:       100 feet         action:       1,718.9 LCY         escription:       Compa         5 %       7,500 feet         2,900 lbs/LCY       Decomposed rock	\$41.30			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1,10         Loose volume:       1,72         Source of estimated volu       Source of estimated swel         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator	\$1,133.53ITTIES00 $55$ $48 LCY$ ume:Operator11 factor:Cat HandTIONaction: $100$ feetaction: $100$ feetaction: $100$ feetaction: $100$ feetaction: $100$ feetaction: $2,900$ feet $2,900$ lbs/LCYDecomposed rockan Factor $0.$	\$41.30 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,72         Source of estimated volu         Source of estimated swel         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist	\$1,133.53 <b>FITIES</b> $00$ $55$ <b>18</b> LCY         Ime:       Operator         If factor:       Cat Hand <b>TION</b> Inction: $100$ feet         inction: $100$ feet         inction: $100$ feet         inction: $2,900$ feet $2,900$ lbs/LCY       Decomposed rock <b>n</b> Factor       Skill:       0.         still:       0. $0.$ $0.$	\$41.30 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,50         Swell factor:       1.16         Loose volume:       1,74         Source of estimated volu         Source of estimated swell         HOURLY PRODUCC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist         Dozing ma	\$1,133.53 <b>FITIES</b> $00$ $55$ <b>18</b> LCYtime:OperatorIl factor:Cat Hand <b>TION</b> action: $100$ feetaction: $1,718.9$ LCescription:Compa $5\%$ 7,500 feet2,900 lbs/LCYDecomposed rock <b>n</b> FactorSkill:0.tency:0.ethod:1.	\$41.30 			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3209	
Adjusted unit production: 55	51.60 LCY/hr	
Adjusted fleet production: 16	554.8 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$0.685/LCY

Total job time:	<b>1.06</b> Hours
Total job cost:	\$1,197

# **REVEGETATION WORK**

Task descr	iption:	<b>Re-seed Drill Pads and Road</b>	ls, 20.72 acres	@ 2% failure rate	
ite: Elk Cre	ek Mine	Permit Action:	SI1	Permit/Jol	o#: <u>C1981022</u>
PROJECT	<u>IDENTIFIC</u>	<u>CATION</u>			
Task #:	016	State: Colorado		Abbreviation:	None
	11/18/2021	County: Delta		Filename:	022-016
Date:	11/10/2021				

## **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
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$17.59
Indian Ricegrass - Native	0.50	1.62	\$3.25
Mountain Brome - Bromar	2.00	3.21	\$7.60
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Coreopsis, Lance Leafed	0.15	3.84	\$4.28
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Prairie Junegrass	0.25	13.29	\$6.50
Penstemon, Rocky Mountain	0.15	2.35	\$4.43
Yarrow, White	0.05	3.18	\$2.00

Totals Seed Mix	8.10	69.28	\$71.25
I Utals Seeu MIX	0.10	07.20	

#### Application

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

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

Application

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

## NURSERY STOCK PLANTING

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

Estimated	No. of Acres: Failure Rate:	0%	Cost /Acre*	\$1,033.47 \$0.00
*Selected Replanting Initial Job Cost:	\$516.74	NONE		
Reseeding Job Cost:	\$517		-	

Page 1 of 2

## SCRAPER TEAM WORK

Site: Elk Creek Mine		Permit	Action:	SI1	Perr	mit/Job#: <u>C198</u>	1022
PROJECT IDEN	<b>FIFICATION</b>						
Task #: 023	Stat	to: (	Colorado		Abbrox	viation: None	
Date: $11/18/2$			Delta			ename: 022-02	23
User: LDS							
Agency or o	organization name: _	DRM	S				
HOURLY EQUIE	<u>PMENT</u>			COSTS	hift basis: <u>1 per d</u>	ay	
			Equipme	nt Description			
		aper:		G w/push-pull			
Suppo	-Do rt Equipment -Load A	ozer:	NA NA				
Suppo	-Dump A	ł	NA				
Road Ma	intenance – Motor Gra	4	NA				
	-Water Tr	ruck:	NA				
Cost Breakdown:	Scraper Work	Team		Support Equi	oment	Maintenance	e Equipmer
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water
%Utilization-machine:	100		NA	NA	NA	NA	
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	
Operating cost/hour:	\$193.77		NA	NA	NA	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		NA	NA	NA	NA	
Ripper op. cost/hour:	NA		NA	NA	NA	NA	
Operator cost/hour:	\$30.90		NA	NA	NA	NA	
Unit Subtotals:	\$448.15		NA	NA	NA	NA	
Number of Units:	2		0	0	0	0	
Group Subtotals:	Work:	\$896	5.30	Support:	\$0.00	Maint:	\$0.0
Total work team cost	/hour: <u><b>\$896.30</b></u>						
MATEDIAL OU	NTTTEC						
MATERIAL QUA							
Initial volume: Loose volume:	<u>14,100</u> <b>15,863</b>		CCY LCY	Swell fact	tor: <u>1.125</u>		
	rce of estimated volum of estimated swell fact		Cat Hand	of Reclamation, 1	winning & Safety		
HOURLY PROD	UCTION						
				Scraper B	owl (volume) Basi	is:	
Material weight:	2,650 lbs/LCY			Struck	Volume: 24.00	Ι	CY
Material description:	Decomposed rock - 75% Earth	25% F	Rock,		Volume: 34.00		CY
Rated Payload:	81,600 pounds			Average	Volume: 29.00	I	CY
Rated I dyload.	01,000 poundo						

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.40

Haul Time: **0.40** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.35

Return Time:	0.35	minutes
Total Scraper team cycle time:	2.35	minutes
Adjusted for job conditions:	1,229.11	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,229.11	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,229.11	LCY/Hour
Unadjusted whit production (hours 1,490,95 LCV/Usur		

Unadjusted unit production/hour: 1,480.85 LCY/Hour Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	12.91	Hours
Unit cost:	\$0.729	/LCY	Total job cost:	\$11,567	-

## BULLDOZER RIPPING WORK

	Task description:	Rip All Su	rface Facility Area	IS				
Site	: Elk Creek Mi	ne	Permit Action:	SI1	Р	ermit/Job#:	C19810	22
	PROJECT ID	ENTIFICATION						
	Task #:     034       Date:     11/       User:     LD	(18/2021 Con	tate: Colorado inty: Delta			reviation: Filename:	None 022-034	
	Agency	or organization name:	DRMS					
	HOURLY EQ	UIPMENT COST						
	Basic Ripper Att	Machine: Cat D10T achment: 3-Shank R			Horsepower: Shift Basis: Data Source:	1 r	574 ber day CRG)	
	Cost Breakdown:				Bulu Source.	(	(110)	
	<u>Cost Broakdown</u>	Ownership Cost/Hou		\$169.60	Utilization % NA	_		
	Pinn	Operating Cost/Hou er Ownership Cost/Hou		\$166.94 \$25.19	100 NA	-		
		per Operating Cost/Hot		\$23.19	100	_		
	r i	Operator Cost/Hou	ır:	\$41.30	NA	-		
		Total Unit Cost/Hou	ır:	\$416.77				
		Total Fleet Cost/Hou	ır: <b>\$1,25</b>	0.32				
	MATERIAL (	<u>UANTITIES</u>	Sele	cted estimating	method: Area	a		
	Alternate Method	<u>ls:</u>						
Seismic: Area:	NA 70.80	acres	Bank Volume:	NA 2.00	BCY	228,448	NA	BCY or CCY
		Source of estimated of				- , -		
			1 uge 2.	.05 20				
	HOURLY PRO	JUCTION						
	Seismic:	Seismi	c Velocity:	NA	feet/sec	ond		
		beisini		1111		ond		
	<u>Area:</u>	Average Ripp	ing Denth <sup>.</sup>	2.00	feet/pas	s		
		Average Ripp		8.67	feet/pas			
		Average Rippi		300.00	feet/pas			
		Average Do		88.00	feet/min			
		Average Mane		0.25 0.979	minutes	-		
		Production pe		0.979	acres/he	Jur		
	Job Condition Co							
	Un	adjusted Hourly Unit F	Production:	0.979	Acres/h	r		
			e Altitude:	6,200	feet			
			titude Adj:	1.00	(CAT H			
			Efficiency: Correction:	0.83	(1 shift/	•		
					multipli	ler		
			Unit Production: Fleet Production:	0.81 2.44	Acres/hr Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	3 Grad	ler(s)	Total job tim	e:2	29.04	Но	ours
	Unit cost:	\$512.847 Per a	acre	Total job cos	st:\$.	36,310		

#### HYDRAULIC EXCAVATOR WORK

Elk Creek Mine     Permit Action:     SI1		
	Permit/Job#:	C1981022
PROJECT IDENTIFICATION		
Task #:041State:ColoradoDate:11/18/2021County:DeltaUser:LDSCounty:Delta	Abbreviation: Filename:	None 022-041
Agency or organization name: DRMS		
HOURLY EQUIPMENT COST		
Attachment 1: ROPS Cab We	eight (MT): 2 Shift Basis: 1 p	268 99.30 ber day CRG)
Cost Breakdown:		
Ownership Cost/Hour:\$83.42Utilization %Operating Cost/Hour:\$74.14100Operator Cost/Hour:\$37.32NA		
Total Unit Cost/Hour:   \$194.88		
Total Fleet Cost/Hour: \$194.88		
MATERIAL QUANTITIES         Initial volume:       7,500       CCY       Swell factor:         Loose volume:       8,438       LCY	1.125	
Source of estimated swell factor: Appendix E-1; Map S-038 Cat Handbook		
HOURLY PRODUCTION		
Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty)	).	
Basic Job Condition Description		
Secondary Job Condition within Basic Description	n: AVERAGE	
Cycle Time Value Load Bucket Capacity	e: 0.321	minutes
	Bucket Size Class: Sn	nall
Rated Capacity:1.56LCY (heaped)Bucket Fill Factor:0.850Hard, tough clay (80% - 90%)Adjusted Capacity:1.33LCY		
	ltitude: <u>6400</u> feet	
	11111111111 <u>0-100</u> 1001	
Source		
Altitude Adj:SourceJob Efficiency:0.83(1 shift/day)		
Altitude Adj: 1.00 (CAT HB)		
Altitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)	LCY/Hour LCY/Hour LCY/Hour	
Altitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierUnadjusted Hourly Unit Production:Adjusted Hourly Unit Production:247.85Adjusted Hourly Unit Production:205.72	LCY/Hour	
Altitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierUnadjusted Hourly Unit Production:Adjusted Hourly Unit Production:247.85Adjusted Hourly Unit Production:205.72Adjusted Hourly Fleet Production:205.72	LCY/Hour	Hours

Task description:	<b>Regrade Pond C Access Road</b>			
Elk Creek Mine	Permit Action: S	I1	Permit/Job#:	C1981022
PROJECT IDENTIF	ICATION			
Task #: 042	State: Colorado		Abbreviation:	None
Date: 11/18/2021	County: Delta		Filename:	022-042
User: LDS				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D10T - 10SU			
Horsepower: 574				
VI	ni-Universal			
Attachment: NA				
	er day			
Data Source: (CH	RG)			
Cost Breakdown:				
<b>_</b> _		Utilization %		
Ownership Cost/Hour:	\$169.60	NA		
Operating Cost/Hour:	\$166.94	100		
Ripper own. Cost/Hour:	\$0.00	NA		
	¢0.00	0		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$41.30 \$377.84 <b>\$1,133.53</b>	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:3,33	\$41.30 \$377.84 \$1,133.53 TTIES 3			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16	\$41.30 \$377.84 \$1,133.53 TTIES 3			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16	\$41.30 \$377.84 <b>\$1,133.53</b> <b>ITIES</b> 3 5 3 LCY me: Division Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY me: Division Estimate			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         I factor:       Cat Handbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volut Source of estimated swell HOURLY PRODUCT	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY me: Division Estimate I factor: Cat Handbook TION			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volut Source of estimated swell HOURLY PRODUCT	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY me: Division Estimate I factor: Cat Handbook TION 200 feet			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY me: Division Estimate I factor: Cat Handbook TION 200 feet ction: 946.0 LCY/hr			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         1 factor:       Cat Handbook         TION         ction:       200 feet         946.0 LCY/hr         scription:       Compacted fill or emb			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$41.30 \$377.84 \$1,133.53 TTIES 3 5 3 LCY me: Division Estimate I factor: Cat Handbook TION 200 feet ction: 946.0 LCY/hr			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         1 factor:       Cat Handbook         Cat Handbook         Constant         200 feet         ction:       946.0 LCY/hr         scription:       Compacted fill or emb         0 %			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NA NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         1 factor:       Cat Handbook         TION         ction:       946.0 LCY/hr         scription:       Compacted fill or emb         0 %       6,100 feet         2,900 lbs/LCY       Decomposed rock - 50% Rock, 50         Factor       Factor	NA NA NA NA NA NA NA NA NA NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NA NA NA NA NA NA NA NA NA NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volut Source of estimated volut Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         1 factor:       Cat Handbook         TION         200 feet         ction:       946.0 LCY/hr         scription:       Compacted fill or emb         0 %       6,100 feet         2,900 lbs/LCY       Decomposed rock - 50% Rock, 50         Factor       Skill:       0.750         ency:       0.900	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,33 Swell factor: 1.16 Loose volume: 3,88 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	\$41.30         \$377.84         \$1,133.53         TTIES         3         5         3 LCY         me:       Division Estimate         1 factor:       Cat Handbook         TION         200 feet         ction:       946.0 LCY/hr         scription:       Compacted fill or emb         0 %       6,100 feet         2,900 lbs/LCY       Decomposed rock - 50% Rock, 50         Factor       Skill:       0.750         ency:       0.900	NA NA NA NA NA NA NA NA NA NA		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3554	
Adjusted unit production: 33	36.21 LCY/hr	
Adjusted fleet production: 10	008.63 LCY/hr	

Fleet size:	3 Dozer(s)
Unit cost:	\$1.124/LCY

Total job time:	<b>3.85</b> Hours
Total job cost:	\$4,364

## MOTOR GRADER WORK

			Areas		
Elk Creek Mine	Per	mit Action:	SI1	Perm	it/Job#: <u>C1981022</u>
PROJECT IDENTI	<b>FICATION</b>				
Task #: 050	State:	Colorado		Abbrevi	ation: None
Date: $11/18/202$		Delta			name: 022-050
User: LDS	<u> </u>				
Agency or org	ganization name: DI	RMS			
HOURLY EQUIPM	IENT COST				
Basic Machi	ne: CAT 14M			Horsepower:	259
Ripper Attachme				Shift Basis:	1 per day
				Data Source:	(CRG)
<u>Cost Breakdown:</u>			1	TT.'1' .' 0/	
<u>^</u>	northin Cost/II		¢05 00	Utilization %	
	nership Cost/Hour: erating Cost/Hour:		\$85.80 \$60.40	NA 100	
	nership Cost/Hour:		\$0.40	NA	
	erating Cost/Hour:		\$0.00	11/1	
	perator Cost/Hour:		\$28.56	NA	
	al Unit Cost/Hour:		\$174.76		
Tota	al Fleet Cost/Hour:	\$174	.76		
		Daga 2	05 20. Division		
Sou	rce of estimated acreas	ge: Page 2.	03-20, Division	Estimate	
	rce of estimated acreas	ge: <u>Page 2.</u>	05-20; Division	Estimate	
Sou	CTION				
	C <b>TION</b> Average Grader Sp	beed:	1.50	mph	15
	C <b>TION</b> Average Grader Sp Selected Applica	beed: tion:	1.50 Finish g	mph grading (0-2.5 mph)	- 1.5
	<u>CTION</u> Average Grader Sp Selected Applica Selected Blade A	beed: tion: ngle:	1.50 Finish ş 30	mph grading (0-2.5 mph) degrees	- 1.5
HOURLY PRODUC	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Ler	beed: tion: ngle: ngth:	1.50 Finish g 30 12.10	mph grading (0-2.5 mph) degrees feet	- 1.5
HOURLY PRODUC	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per	beed: tion: ngle: ngth: pass:	1.50 Finish 3 30 12.10 2.00	mph grading (0-2.5 mph) degrees feet feet	- 1.5
HOURLY PRODUC Widt Net grading	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Ler	beed: tion: ngle: ngth: pass: pass:	1.50 Finish g 30 12.10	mph grading (0-2.5 mph) degrees feet	- 1.5
HOURLY PRODUC Widt Net grading	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Produc	beed: tion: ngle: ngth: pass: pass:	1.50 Finish g 30 12.10 2.00 10.10 1.8364	mph grading (0-2.5 mph) degrees feet feet feet feet	
HOURLY PRODU( Widt Net gradin Unadjust	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Produc	beed: tion: ngle: ngth: pass: pass: tion:	1.50 Finish g 30 12.10 2.00 10.10 1.8364	mph grading (0-2.5 mph) degrees feet feet feet feet acres/hour	
HOURLY PRODU( Widt Net gradin Unadjust	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Produc	beed: tion: ngle: ngth: pass: pass:	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet feet acres/hour	
HOURLY PRODU( Widt Net gradin Unadjust Job Condition Correctio	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Ler h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors	beed: tion: ngle: pagth: pass: tion: Source	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet feet acres/hour	
HOURLY PRODUG Widti Net grading Unadjust Job Condition Correction Altitude Adj:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Len h of blade overlap per g or ripping width per ed Hourly Unit Producton En Factors 1.00	beed: tion: ngle: pass: pass: tion: Source (CAT HB	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet feet acres/hour	
HOURLY PRODUC Widt Net gradin Unadjust Job Condition Correctio Altitude Adj: Job Efficiency:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Len h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors <u>1.00</u> 0.90 0.9000	beed: tion: ngle: ngth: pass: pass: tion: Source (CAT HB (1sh/d, fav multiplier	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet acres/hour e Altitude: <u>6200</u> fee	
HOURLY PRODUC Widt Net grading Unadjust Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors <u>1.00</u> 0.90 0.9000 Adjusted Hourly Unit	beed: tion: ngle: ngth: pass: pass: tion: CAT HB (1sh/d, fav multiplier Production:	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet cres/hour e Altitude: <u>6200</u> fee	
HOURLY PRODUC Widt Net grading Unadjust Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Len h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors <u>1.00</u> 0.90 0.9000	beed: tion: ngle: ngth: pass: pass: tion: CAT HB (1sh/d, fav multiplier Production:	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet acres/hour e Altitude: <u>6200</u> fee	
HOURLY PRODUC Widt Net grading Unadjust Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors <u>1.00</u> 0.9000 Adjusted Hourly Unit Adjusted Hourly Fleet	beed: tion: ngle: ngth: pass: pass: tion: CAT HB (1sh/d, fav multiplier Production:	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet cres/hour e Altitude: <u>6200</u> fee	
HOURLY PRODUC Widti Net grading Unadjust Job Condition Correctio Altitude Adj: Job Efficiency: Net Correction:	CTION Average Grader Sp Selected Applica Selected Blade A Effective Blade Lea h of blade overlap per g or ripping width per ed Hourly Unit Product on Factors <u>1.00</u> 0.9000 Adjusted Hourly Unit Adjusted Hourly Fleet	beed: tion: ngle: ngth: pass: pass: tion: CAT HB (1sh/d, fav multiplier Production:	1.50 Finish g 30 12.10 2.00 10.10 1.8364 Sit	mph grading (0-2.5 mph) degrees feet feet feet acres/hour e Altitude: <u>6200</u> fee acres/Hour acres/Hour	

Task description:	Remove Upper H	lubbard Cre	eek Sealment Pond		
Elk Creek Mine	Peri	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIF	TICATION				
Task #: 066 Date: 11/18/202 User: LDS	State: 1 County:	Colorado Delta		Abbreviation: Filename:	None 022-066
Agency or orga	nization name: DR	RMS			
HOURLY EQUIPM	ENT COST				
	tt D10T - 10SU				
Horsepower: 57					
Blade Type: Se Attachment: NA	mi-Universal				
	er day				
	RG)		_		
	KU)				
Cost Breakdown:		1			
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Ucur		\$166.94	100		
Operating Cost/Hour:		\$0.00 \$0.00	NA		
Ripper own. Cost/Hour:			0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:					
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$377.84 <b>\$377.84</b>	\$41.30	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$377.84 <u>FITIES</u>				
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:190	<b>\$377.84</b> <u>FITIES</u> 58				
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>1,96</u> Swell factor: <u>1.16</u>	<b>\$377.84</b> <b><u>FITIES</u></b> 58 55				
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>1,96</u> Swell factor: <u>1.16</u>	<b>\$377.84</b> <u>FITIES</u> 58				
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1,16 Loose volume: 2,29 Source of estimated volu	\$377.84 <u>FITIES</u> 58 55 <b>93</b> LCY Ime:TR-05; A	\$41.30			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,25	\$377.84 <u>FITIES</u> 58 55 <b>93</b> LCY Ime:TR-05; A	\$41.30			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1,16 Loose volume: 2,29 Source of estimated volu	\$377.84 <u>FITIES</u> 58 55 <b>93</b> LCY Ime:TR-05; A	\$41.30			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1,16 Loose volume: 2,29 Source of estimated volu	\$377.84 <u>FITIES</u> 58 55 <b>93</b> LCY Ime: <u>TR-05; A</u> Il factor: <u>Cat Hand</u>	\$41.30			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1,16 Loose volume: 2,29 Source of estimated volu Source of estimated swell HOURLY PRODUC	\$377.84 <u>FITIES</u> 58 55 53 LCY 100 11 factor: <u>TR-05; A</u> Cat Hand TION	\$41.30			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance:	\$377.84 <u>FITIES</u> 58 55 53 LCY ume: <u>TR-05; A</u> 11 factor: <u>Cat Hand</u> <u>TION</u> 50 feet	\$41.30  ppendix K book			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         11 factor:       Cat Hand         TION         action:       50 feet         2,748.7 LCY	\$41.30  ppendix K book	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance:	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         11 factor:       Cat Hand         TION         action:       50 feet         2,748.7 LCY	\$41.30  ppendix K book			
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         11 factor:       Cat Hand         TION         action:       50 feet         2,748.7 LCY	\$41.30  ppendix K book	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,96 Swell factor: 1,16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$377.84 FITIES 58 55 53 LCY time: TR-05; A Cat Hand TION 50 feet 10 %	\$41.30  ppendix K book	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$377.84 FITIES 58 55 53 LCY me: TR-05; A Cat Hand TION 50 feet action: 2,748.7 LC scription: Compa 10 % 6,400 feet	\$41.30 ppendix K book Y/hr cted fill or er	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,25 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         Il factor:       Cat Hand         TION         action:       50 feet         action:       2,748.7 LCY         escription:       Compare         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock	\$41.30 ppendix K book Y/hr cted fill or er	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight:	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         Il factor:       Cat Hand         TION         action:       50 feet         action:       2,748.7 LCY         escription:       Compa         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock         n Factor       Factor	\$41.30 ppendix K book Y/hr cted fill or er	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,25 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$377.84         FITIES         58         55         93 LCY         ume:       TR-05; A         Il factor:       Cat Hand         TION         action:       50 feet         action:       2,748.7 LCY         escription:       Compare         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock         n Factor       0.	\$41.30 	NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,96 Swell factor: 1.16 Loose volume: 2,29 Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$377.84 <b>FITIES</b> 5855 <b>93</b> LCYume:TR-05; A11 factor: $Cat$ Hand <b>TION</b> action: $50$ feetaction: $2,748.7$ LCescription:Compa $10 \%$ $6,400$ feet $2,900$ lbs/LCYDecomposed rock <b>n</b> FactorSkill:0.tency: $0.$	\$41.30 	NA		

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 0.786	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.2794	
Adjusted unit production:	767.99 LCY/hr	
Adjusted fleet production:	767.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.492/LCY

Total job time:	2.99 Hours
Total job cost:	\$1,128

Task description:	Regrade East Benc	h Pond			
Elk Creek Mine	Permi	t Action: <u>S</u>	I1	Permit/Job#:	C1981022
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 067	State:	Colorado		Abbreviation:	None
Date: 11/18/202	l County:	Delta		Filename:	022-067
User: LDS					
Agency or orga	nization name: DRM	IS			
HOURLY EQUIPM	ENT COST				
	t D10T - 10SU				
Horsepower: 57					
VI	mi-Universal				
Attachment: NA					
	ber day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$169.60	NA		
Operating Cost/Hour:		\$166.94	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Rinner on Cost/Hour		\$0.00	0		
Ripper op. Cost/Hour:		A 1 1 A A			
Operator Cost/Hour: Total unit Cost/Hour:	\$377.84	\$41.30	NA		
Operator Cost/Hour:	\$377.84	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16	\$377.84 <u>FITIES</u>	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466	\$377.84 <b>FITIES</b> 55 LCY	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16	\$377.84 <b>FITIES</b> 55 LCY me: Map 15	· · · · · · · · · · · · · · · · · · ·	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated swell	\$377.84 <b>EITIES</b> 55 LCY me: <u>Map 15</u> I factor: <u>Cat Handbo</u>	· · · · · · · · · · · · · · · · · · ·	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated swell HOURLY PRODUCC	\$377.84 <b>FITIES</b> 55 LCY me: <u>Map 15</u> 11 factor: <u>Cat Handbo</u> <b>TION</b>	· · · · · · · · · · · · · · · · · · ·	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated swell	\$377.84 <b>EITIES</b> 55 LCY me: <u>Map 15</u> 11 factor: <u>Cat Handbo</u> <b>TION</b> 50 feet		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance:	\$377.84 <b>FITIES</b> 55         LCY         me:       Map 15         Il factor:       Cat Handbo <b>TION</b> section: <u>50 feet</u> 2,748.7 LCY/	bok	 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance: Unadjusted hourly produ	\$377.84 <b>FITIES</b> 55         LCY         me:       Map 15         Il factor:       Cat Handbo <b>TION</b> section: <u>50 feet</u> 2,748.7 LCY/	bok			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$377.84         FITIES         55         LCY         me:       Map 15         Il factor:       Cat Handbox         TION         action:       50 feet         2,748.7 LCY/2         scription:       Compacted         10 %	bok			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$377.84         FITIES         55         LCY         ame:       Map 15         Il factor:       Cat Handbo         TION         action:       50 feet         action:       2,748.7 LCY/         scription:       Compacted         10 %       6,400 feet	hr ed fill or emb	   pankment 0.9		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       400         Swell factor:       1.16         Loose volume:       466         Source of estimated volu       swell         Source of estimated swell       466         HOURLY PRODUCC       Average push distance:         Unadjusted hourly produce       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       100	\$377.84         FITIES         55         LCY         ame:       Map 15         Il factor:       Cat Handbo         TION         action:       50 feet         action:       2,748.7 LCY/         scription:       Compacted         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock - 5         n Factor       10 %	hr ed fill or emb			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 400 Swell factor: 1.16 Loose volume: 466 Source of estimated volu Source of estimated volu Source of estimated swell Materials consistency de Average push distance: Unadjusted hourly produc Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$377.84 <b>EITIES</b> 55         LCY         ame:       Map 15         Il factor:       Cat Handbox <b>TION</b> action:       50 feet         2,748.7 LCY/         scription:       Compacte         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock - 5         n Factor       0.75	hr ed fill or emb 			
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       400         Swell factor:       1.16         Loose volume:       466         Source of estimated volu       swell         Source of estimated swell       466         HOURLY PRODUCC       Average push distance:         Unadjusted hourly produce       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       100	\$377.84 <b>EITTIES</b> 55         LCY         me:       Map 15         Il factor:       Cat Handbox <b>TION</b> action:       50 feet         2,748.7 LCY/         scription:       Compacted         10 %       6,400 feet         2,900 lbs/LCY       Decomposed rock - 4         Decomposed rock - 4       0.75         skill:       0.75         tency:       0.90	hr ed fill or emb 			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2794	
Adjusted unit production: 76	57.99 LCY/hr	
Adjusted fleet production: <b>76</b>	67.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.492/LCY
Total ich time	0 61 Hours

I otal job time:	<b>0.61</b> Hours
Total job cost:	\$229

### HYDRAULIC EXCAVATOR WORK

Task description:	Excavate/Backfi	ll Pond C Wa	all Area		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Jo	b#: <u>C1981022</u>
PROJECT IDENTIF	<b>ICATION</b>				
Task #:     068       Date:     11/18/202       User:     LDS	State: County:	Colorado Delta		Abbreviation Filename	
Agency or orga	nization name: DF	RMS			
HOURLY EQUIPMI	ENT COST				
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	Weig Sh	sepower:	268 29.30 1 per day (CRG)
Cost Breakdown:		I	••••		
Ownership Cost/ Operating Cost/ Operator Cost/	Hour: \$74. Hour: \$37.	14 32	Utilization % NA 100 NA		
Total Unit Cost/					
Total Fleet Cost		.88			
Loose volume: 3	075 044 of estimated volume:	CCY LCY	Swell factor:	1.250	
	stimated swell factor:			ig & Salety	
HOURLY PRODUC	TION				
Excavator Cycle Time (1		aded, dump bi	cket. swing empty):		
	<u> </u>	-	ondition Description:	AVERAGE	
	Secondary Job Co		n Basic Description:	AVERAGE	
Load Bucket Capacity			Cycle Time Value:	0.321	minutes
			Bu	cket Size Class:	Small
Rated Capacity	· · · · · · · · · · · · · · · · · · ·	LCY (hea		_	
Bucket Fill Facto		,	gh clay (80% - 90%) (	0.850	
Adjusted Capacity	·	LCY	<u>a.</u>		
Job Condition Correction	I FACTORS		Site Alti	tude: <u>6000</u> feet	
Altitude Adj:	1.00	Source (CAT HB	)		
Job Efficiency:	0.83	(1 shift/day			
Net Correction:	0.83	multiplier	—		
A	adjusted Hourly Unit Adjusted Hourly Unit djusted Hourly Fleet	Production:	205.72 I	.CY/Hour .CY/Hour .CY/Hour	
JOB TIME AND CO	· ·			,	
	1 Excavat	or To	tal job time:	1.67	Hours
Unit cost: \$0.	947 /LCY		Total job cost:	\$326	
Jint COSt \$0.			10tur j00 cost.	ψ540	

### HYDRAULIC EXCAVATOR WORK

Task description:	Regrade West V	alley Fill Div	version		
Elk Creek Mine	Per	mit Action:	SI1	Permit/Job	#: <u>C1981022</u>
PROJECT IDENTIFI	<b>CATION</b>				
Task #:         069           Date:         11/18/2021           User:         LDS	State: County:	Colorado Delta		Abbreviation: Filename:	
Agency or organ	nization name: DF	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	N	Horsepower: Weight (MT): Shift Basis: Data Source:	268 29.30 per day (CRG)
Cost Breakdown:		1			
Ownership Cost/H	Hour: \$83.4	42	Utilization % NA		
Operating Cost/H	Hour: \$74.	14	100	_	
Operator Cost/H		32	NA	_	
Total Unit Cost/H	Hour: \$194	.88			
Total Fleet Cost/	Hour: \$194	.88			
MATERIAL QUANT	ITIES				
Initial volume: 33		CCY LCY	Swell facto	or: 1.125	
Source of	of estimated volume:	Map E-32	211		
Source of est	timated swell factor:	-			
HOURLY PRODUCT	TION				
Excavator Cycle Time (lo		ided, dump h	ucket, swing emp	tv):	
<u>Encurator Opere Time (10</u>	ad bucket, 5 ming for	-	ondition Descripti	•	
	Secondary Job Co		1		
			Cycle Time Val		minutes
Load Bucket Capacity					
				Bucket Size Class:	Small
Rated Capacity		_ LCY (hea			
Bucket Fill Factor		Hard, tou LCY	gh clay (80% - 90	1%) 0.850	
Adjusted Capacity					
Job Condition Correction	Factors		Site	Altitude: 6300 feet	
	1.00	Source			
Altitude Adj:	1.00 0.83	(CAT HE (1 shift/da			
Net Correction:	0.83	multiplier			
		-			
	djusted Hourly Unit djusted Hourly Unit		<u>247.85</u> 205.72	LCY/Hour LCY/Hour	
	ljusted Hourly Fleet		205.72	LCY/Hour	
JOB TIME AND COS				_	
Fleet size: 1	Excavat	or To	otal job time:	1.82	Hours
Unit cost: \$0.9	947 /LCY		Total job cost:	\$354	
οmi cost. <u></u>	/+/ /LUI		Total job cost:	<b>ФЭЭ4</b>	

Task description:	Remo	ve Sewage Leach Field	l		
Elk Creek Mine		Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	TIFICATIO	<u>DN</u>			
Task #: 071		State: Colorado		Abbreviation:	None
Date: $\frac{071}{11/18}$	2021	County: Delta		Filename:	022-071
User: LDS	2021			i nonume.	022 071
	organization 1	name: DRMS			
HOURLY EQUI	-				
Basic Machine: Horsepower:	Cat D10T - 574	1050			
Blade Type:	Semi-Unive	real			
Attachment:	NA	1541			
Shift Basis:	1 per day				
Data Source:	(CRG)				
-					
Cost Breakdown:			Litilization 0/		
Ownership Cost/H	our.	\$169.60	<u>Utilization %</u> NA		
Operating Cost/H		\$166.94	100		
Ripper own. Cost/H		\$0.00	NA		
Ripper op. Cost/H		\$0.00	0		
	041.				
	our	\$41.30	NΛ		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou	r: \$377.8		NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	r: \$377.8 ar: <b>\$377.8</b> ANTITIES 250	34	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU	r: \$377.8 ar: <b>\$377.8</b> ANTITIES	34	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	r: \$377.8 ar: \$377.8 ANTITIES 250 1.165 291 LCY	34 3 <b>4</b>	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	r: \$377.8 ar: \$377.8 <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume:	34			
Operator Cost/He Total unit Cost/Heu Total Fleet Cost/Heu MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	r: \$377.8 ar: \$377.8 ANTITIES 250 1.165 291 LCY volume: swell factor:	34 34 34 	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	r: \$377.8 ar: \$377.8 ANTITIES 250 1.165 291 LCY volume: swell factor: UCTION	4 4 Map E-3207R Cat Handbook			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$377.8 ar: \$377.8 ANTITIES 250 1.165 291 LCY volume: swell factor: UCTION ce:	34 34 34 	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	r: <u>\$377.8</u> ar: <u>\$377.8</u> <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction:	34           35           36           37           38           38           39           39           39           39           39           39           39           39           39           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	r: <u>\$377.8</u> ar: <u>\$377.8</u> <u>ANTITIES</u> <u>250</u> <u>1.165</u> <u>291</u> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: ent:10 %	4 4 Map E-3207R Cat Handbook 100 feet 1,718.9 LCY/hr Compacted fill or e			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	r: <u>\$377.8</u> ar: <u>\$377.8</u> <u>ANTITIES</u> <u>250</u> <u>1.165</u> <u>291</u> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: ent:10 %	4 4 Map E-3207R Cat Handbook 100 feet 1,718.9 LCY/hr Compacted fill or e			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	r: \$377.8 ar: \$377.8 <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction: y description: ent: 10 % ::6,400 ;	4 4 Map E-3207R Cat Handbook 100 feet 1,718.9 LCY/hr Compacted fill or e			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	\$377.8 <b>ANTITIES</b> 250         1.165 <b>291</b> LCY         volume:         swell factor: <b>UCTION</b> ce:         roduction:         y description:         ent:       10 % $= 2,900$	34         35         36         37         37         38         39         39         39         39         30			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	\$377.8 <b>ANTITIES</b> 250         1.165 <b>291</b> LCY         volume:         swell factor: <b>UCTION</b> ce:         roduction:         y description:         ent:       10 %         2,900         Decon	A A A A A A A A A A A A A A			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU/ Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Open	r: <u>\$377.8</u> <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction: y description: ent: <u>10 %</u> ce:000 <u></u> Decon ction Factor rator Skill:	A A A A A A A A A A A A A A			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Open Material co	r: $3377.8$ <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction: y description: ent: 10 % ce: cetion Factor ator Skill: onsistency:	34         35         36         36         36         36         36         36         36         36         37         36         37         36         36         37         36         36         36			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corree Oper Material co Dozim	r: <u>\$377.8</u> <b>ANTITIES</b> 250 1.165 <b>291</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction: y description: ent: <u>10 %</u> ce:000 <u></u> Decon ction Factor rator Skill:	A A A A A A A A A A A A A A	mbankment 0.9		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2794	
Adjusted unit production: 48	80.26 LCY/hr	
Adjusted fleet production: 48	80.26 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.787/LCY
Total ich time	0 61 Hours

l'otal job time:	<b>0.61</b> Hours
Total job cost:	\$229

Task description:	Regrade P	ond A			
Elk Creek Mine		Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	<b>TIFICATION</b>				
Task #: 072		State: Colorado		Abbreviation:	None
Date: $\frac{072}{11/18}$		ounty: Delta		Filename:	022-072
User: LDS		<u> </u>		i nonunie.	022 012
Agency or	organization name	DRMS			
HOURLY EQUI	PMENT COST				
Basic Machine:	Cat D10T - 10SU	J			
Horsepower:	574				
Blade Type:	Semi-Universal				
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/He		\$169.60	NA		
Operating Cost/He		\$166.94	100		
Ripper own. Cost/H		\$0.00	NA	<u> </u>	
Dimmon cr. Cast/II	our:	\$0.00	0		
Ripper op. Cost/H					
Operator Cost/H		\$41.30	NA		
Operator Cost/H	our:	\$41.30	NA		
	our:	\$41.30	NA		
Operator Cost/Heat Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QU	our: r: \$377.84 ur: <b>\$377.84</b> ANTITIES	\$41.30	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	our: r: <u>\$377.84</u> ur: <b>\$377.84</b> <b>ANTITIES</b> 400	\$41.30	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	our: r: <u>\$377.84</u> ur: <u><b>\$377.84</b></u> <b>ANTITIES</b> 400 1.165	\$41.30	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	our: r: \$377.84 ur: \$377.84 ANTITIES 400 1.165 466 LCY		NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	our:	ap S-040	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	our:		NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	our:	ap S-040	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	our:	ap S-040 t Handbook	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	our:	ap S-040 t Handbook	NA		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	our: r: \$377.84 ur: \$377.84 ANTITIES 400 1.165 466 LCY volume: Ma swell factor: Ca PUCTION ace: 50 fe production: 2,748	ap S-040 t Handbook			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	our:	ap S-040 t Handbook eet 8.7 LCY/hr			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	our:	ap S-040 t Handbook eet 3.7 LCY/hr Compacted fill or e			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude	our:       \$377.84         ur:       \$377.84         ANTITIES         400         1.165         466 LCY         volume:       Ma         swell factor:       Ca <b>DUCTION</b> ace:       50 fe         orduction:       2,743         ey description:          ext:       10 %         ext:	ap S-040 t Handbook eet 3.7 LCY/hr Compacted fill or e			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	our:	ap S-040 t Handbook et 3.7 LCY/hr Compacted fill or e	  mbankment 0.9		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre	our:	ap S-040 t Handbook et 3.7 LCY/hr Compacted fill or e	  mbankment 0.9  , 50% Earth  <u>Source</u>		
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre	our: $\begin{tabular}{ c c c c } \hline & & & & & \\ \hline & & & & & \\ \hline & & & & &$	ap S-040 ap S-040 t Handbook et 8.7 LCY/hr Compacted fill or e CY cd rock - 50% Rock			
Operator Cost/He Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Open Material co	our: $\begin{tabular}{ c c c c } \hline & & & & & \\ \hline & & & & & \\ \hline & & & & &$	ap S-040 t Handbook et 8.7 LCY/hr Compacted fill or e CY d rock - 50% Rock 0.750	  mbankment 0.9  , 50% Earth  <u>Source</u>		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2794	
Adjusted unit production: 76	57.99 LCY/hr	
Adjusted fleet production: 76	67.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.492/LCY
Total job times	0 61 Hours

l'otal job time:	<b>0.61</b> Hours
Total job cost:	\$229

Task description:	Regr	ade Pond B				
Elk Creek Mine	1	Permit A	Action: SI	1	Permit/Job#:	C1981022
PROJECT IDEN	NTIFICATI	<u>ON</u>				
Task #: 073		State: Co	olorado		Abbreviation:	None
	8/2021		elta		Filename:	022-073
User: LDS						
Agency of	organization	name: DRMS				
HOURLY EQUI	PMENT CO	DST_				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574					
Blade Type:	Semi-Unive	ersal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:			1			
	_			Utilization %		
Ownership Cost/H			169.60	NA		
Operating Cost/H		\$	166.94	100		
Ripper own. Cost/H	lour:		\$0.00	NA		
	-		\$0.00	0		
Ripper op. Cost/H				-		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	Iour: \$377. pur: <b>\$377.</b>	84	\$41.30	NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou	Iour: \$377. pur: <b>\$377.</b>	84		NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU	Hour: 11: \$377. 12: \$377. 14:	84 <b>84</b>		NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Hour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       1 swell factor:	84 84	§41.30 eclamation,	NA  Mining & Safety		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated	Hour:       \$377.         Jur:       \$377.         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION       nce:	84 <b>84</b> 	§41.30 eclamation,			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	Hour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION       nce:         production:	84 84 Division of R Cat Handbool 175 feet 1,074.3 LCY/hr	eclamation,			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p	Hour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION       nce:         production:          cy description          ent:	84 84 Division of R Cat Handbool 175 feet 1,074.3 LCY/hr : Compacted	eclamation,	Mining & Safety		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent	Iour:       \$377.3         Ir:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION	84 84 Division of R Cat Handbool 175 feet 1,074.3 LCY/hr : Compacted	eclamation,	Mining & Safety		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average push gradi	Hour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION       nce:         production:          cy description          e: $-15 \%$ 2,900       2,900	84 84 20 20 20 20 20 20 20 20 20 20	641.30 eclamation, k	Mining & Safety — — ankment 0.9		
Ripper op. Cost/F Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROI Average push distan Unadjusted hourly p Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre	Iour:       \$377.3         Inr:       \$377.3         Dur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION	84 84 84 Backson of R Division of R Cat Handbool 175 feet 1,074.3 LCY/hr : Compacted feet lbs/LCY mposed rock - 50	641.30 eclamation, k	Mining & Safety Mining & Safety ankment 0.9 % Earth Source		
Ripper op. Cost/F Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Materials consistent Average push distan Unadjusted hourly p Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre	Iour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION	84 84 84 84 Back State Sta	\$41.30 eclamation, k fill or emba % Rock, 50	Mining & Safety Mining & Safety ankment 0.9 % Earth <u>Source</u> (AVG.)		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Muterials consistent Average push distant Unadjusted hourly p Materials consistent Average site altitud Material weight: Weight description: Job Condition Corre Ope	Hour:       \$377.3         Jur:       \$377.3         UANTITIES       11,333         1.165       13,203 LCY         I volume:       1 swell factor:         DUCTION       nce:         production:          cy description          ent:           6,100          2,900         consistency:	84 84 84 B4 B4 B4 B4 B4 B5 B5 B5 B5 B5 B5 B5 B5 B5 B5	\$41.30 eclamation, k fill or emba % Rock, 50	Mining & Safety Mining & Safety ankment 0.9 % Earth Source (AVG.) (CAT HB))		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Muterials consistent Average push distant Unadjusted hourly p Materials consistent Average push gradi Average site altitud Material weight: Weight description: Job Condition Corrr Ope Material con	Iour:       \$377.3         Jur:       \$377.3         JANTITIES       11,333         1.165       13,203 LCY         I volume:       swell factor:         DUCTION	84 84 84 84 Back State Sta	\$41.30 eclamation, k fill or emba % Rock, 50	Mining & Safety Mining & Safety ankment 0.9 % Earth <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4724	
Adjusted unit production: 50	07.50 LCY/hr	
Adjusted fleet production: 50	<b>)7.5</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.745/LCY

Total job time:	<b>26.02</b> Hours
Total job cost:	\$9,830

Task description:	Regrade	Pond E				
Elk Creek Mine		Pern	nit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENI	<b>TIFICATION</b>					
Task #:         075           Date:         11/18/2           User:         LDS	2021	State: County:	Colorado Delta		Abbreviation: Filename:	None 022-075
Agency or c	organization nan	ne: DR	MS			
HOURLY EQUIP	MENT COST	-				
Basic Machine:	Cat D10T - 105	SU				
Horsepower:	574					
Blade Type:	Semi-Universa					
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %	<u>.</u>	
Ownership Cost/Ho			\$169.60	NA		
Operating Cost/Ho			\$166.94	100		
Ripper own. Cost/Ho			\$0.00	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	ur:		\$41.30	NA		
MATERIAL QUA	<b>NTITIES</b> 2,300					
Swell factor:	1.165 <b>2,680</b> LCY					
	,					
Source of estimated v Source of estimated s		Division E Cat Handt				
HOURLY PRODU	UCTION					
Average push distanc		) feet				
Unadjusted hourly pr	oduction: 1,7	18.9 LCY				
Unadjusted hourly pr	oduction: 1,7	18.9 LCY		mbankment 0.9		
01	oduction: $1,7$ description: nt: 0 %	18.9 LCY Compac		mbankment 0.9		
Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude:	oduction: $1,7$ description: nt: 0 %	18.9 LCY Compac		mbankment 0.9		
Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude:	oduction: 1,7 / description: nt: 0 % 6,000 fee 2,900 lbs	18.9 LCY Compac	eted fill or en			
Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude: Material weight:	oduction: 1,7 / description: nt: 0 % 6,000 fee 2,900 lbs, Decompo	18.9 LCY Compac	eted fill or en			
Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera	oduction: <u>1,7</u> description: nt: <u>0 %</u> <u>6,000 fee</u> <u>2,900 lbs</u> <u>Decompo</u> <u>stion Factor</u> ntor Skill: <u></u>	18.9 LCY Compac t LCY sed rock - 0.7	eted fill or en	, 50% Earth <u>Source</u> (AVG.	)	
Unadjusted hourly provide the second strength of the second strengt	oduction: 1,7 description: nt: 0 % 6,000 fee 2,900 lbs Decompo etion Factor ntor Skill: mistency:	18.9 LCY Compace t LCY sed rock - 0.7 0.9	eted fill or en	, 50% Earth <u>Source</u> (AVG. (CAT H	) B))	
Unadjusted hourly pro- Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con Dozing	oduction: <u>1,7</u> description: nt: <u>0 %</u> <u>6,000 fee</u> <u>2,900 lbs</u> <u>Decompo</u> <u>stion Factor</u> ntor Skill: <u></u>	18.9 LCY Compace t LCY sed rock - 0.7 0.9 1.0	eted fill or en	, 50% Earth <u>Source</u> (AVG.	) B)) )	

Task # 075

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3554	
Adjusted unit production: 61		
Adjusted fleet production: 61		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.619/LCY

Total job time:	4.39 Hours
Total job cost:	\$1,657

	Regrae				
Elk Creek Mine		Permit Action	: <u>SI1</u>	Permit/Job#:	C1981022
PROJECT IDEN	<b>TIFICATIO</b>	N			
Task #: 077		State: Colorado	0	Abbreviation:	None
Date: 11/18	3/2021	County: Delta		Filename:	022-077
User: LDS		J		-	
Agency or	organization na	ame: DRMS			
HOURLY EQUI	PMENT COS	<u>ST</u>			
Basic Machine:	Cat D10T - 1	0SU			
Horsepower:	574				
Blade Type:	Semi-Univers	sal			
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
_			Utilization %		
Ownership Cost/H		\$169.60			
Operating Cost/H		\$166.94			
Ripper own. Cost/H		\$0.00			
Ripper op. Cost/H	Iour:	\$0.00	0		
Operator Cost/H	Iour:	\$41.30	NA		
Total unit Cost/Hou Total Fleet Cost/Ho					
	our: \$377.84				
Total Fleet Cost/Ho MATERIAL OU Initial Volume:	our: <b>\$377.84</b> J <b>ANTITIES</b> 1,020				
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	our: \$377.84 ANTITIES 1,020 1.330				
Total Fleet Cost/Ho MATERIAL OU Initial Volume:	our: <b>\$377.84</b> J <b>ANTITIES</b> 1,020				
Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	\$377.84         ANTITIES         1,020         1.330         1,357 LCY         volume:		ision Estimate		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	wr:       \$377.84         ANTITIES         1,020         1.330         1,357 LCY         volume:         swell factor:	Map 2.05-M5J; Div	ision Estimate		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar	wr:       \$377.84         1,020       1.330         1,357 LCY       volume:         swell factor:          DUCTION          nce:	Map 2.05-M5J; Div Cat Handbook	ision Estimate		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI	wr:       \$377.84         ANTITIES         1,020         1.330         1,357 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1	Map 2.05-M5J; Div Cat Handbook			
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p	wr:       \$377.84         ANTITIES       1,020         1.330       1,357 LCY         volume:       \$\$\$ well factor:         swell factor:       \$\$         DUCTION       \$\$         nce:       \$\$         production:       \$\$         1       \$\$	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr			
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p	wr:       \$377.84         ANTITIES         1,020         1.330         1,357 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1         cy description:         ent:       5 %	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or			
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradie	wr:       \$377.84         ANTITIES         1,020         1.330         1,357 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1         cy description:         ent:       5 %	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or			
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly p Materials consistent Average push gradid Average site altitude	wur:       \$377.84 $1,020$ 1.330 $1,357 LCY$ 1         1 volume:       1         1 swell factor:       1         DUCTION       1         nce:       9         production:       1         cy description:       1         e: $5\%$ e: $6,300$ fc $2,900$ lb	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or	embankment 0.9		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistend Average push gradid Average site altitud Material weight: Weight description: Job Condition Correct	wur:       \$377.84         1,020       1.330         1,377 LCY       volume:         volume:       9         swell factor:       1         DUCTION       1         nce:       9         production:       1         cy description:       1         e:       5 %         2,900 lb       1         Decomp       1         ection Factor       1	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or eet posed rock - 50% Roc	embankment 0.9 k, 50% Earth Source		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distar Unadjusted hourly p Materials consistend Average push gradid Average site altitud Material weight: Weight description: Job Condition Corrac Ope	wur:       \$377.84         ANTITIES       1,020         1.330       1,357 LCY         volume:	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or eet posed rock - 50% Roc 0.750	embankment 0.9 <u>ek, 50% Earth</u> <u>Source</u> (AVG.)		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradia Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	sur:         \$377.84           ANTITIES         1,020           1.330         1,357 LCY           1,357 LCY         1,020           1,357 LCY         1,357 LCY           1 volume:         1           1 swell factor:            DUCTION            nce:            production:            cy description:            ent:                cy description:            ent:                ent:	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or eet os/LCY posed rock - 50% Roc 0.750 0.900	embankment 0.9 ck, 50% Earth (AVG.) (CAT HB))		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradia Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	wur:       \$377.84         ANTITIES       1,020         1.330       1,357 LCY         volume:	Map 2.05-M5J; Div Cat Handbook 0 feet ,873.5 LCY/hr Compacted fill or eet posed rock - 50% Roc 0.750	embankment 0.9 <u>ek, 50% Earth</u> <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3209	
Adjusted unit production: 60	)1.21 LCY/hr	
Adjusted fleet production: 60		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.628/LCY
Total ich time	2 26 Hours

Fotal job time:	<b>2.26</b> Hours
Total job cost:	\$853

# SCRAPER TEAM WORK

Site: Elk Creek Mine		Permit Action:	SI1	Perr	nit/Job#: <u>C198</u>	1022
PROJECT IDEN	<b>TIFICATION</b>					
Task #: 090	S	tate: Colorado		Abbrey	viation: None	
Date: 11/18/2		inty: Delta			ename: 022-09	0
User: LDS						
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	hift basis: <u>1 per d</u>	ay	
			ent Description			
			G w/push-pull			
Suppor	- rt Equipment -Load	Dozer: NA 1 Area: NA				
Suppo		Area: NA				
Road Mar	intenance – Motor (					
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wor	k Team	Support Equi	oment	Maintenance	Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Ti
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$223.48	NA	NA	NA	NA	
Operating cost/hour:	\$193.77	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$448.15	NA	NA	NA	NA	
Number of Units:	2	0	0	0	0	
Group Subtotals:	Work:	\$896.30	Support:	\$0.00	Maint:	\$0.00
Total work team cost	/hour: <b>\$896.30</b>					
MATERIAL QUA	NTITIES					
Initial volume:	1,500	CCY	Swell fact	tor: 1.125		
Loose volume:	1,688	LCY				
Sou	rce of estimated vo	lume: Operator	Estimate			
Source of	of estimated swell f					
HOURLY PRODU	TCTION					
HOUKETTKOD			Some P	oud (volumo) Doo		
				owl (volume) Basi		
Material weight:	2,650 lbs/LCY	250/ Dool		Volume: $24.00$		CY CY
Material description:	Decomposed rock 75% Earth	x - 23% KUCK,	Heaped	Volume: 34.00	L	
Rated Payload:	81,600 pounds		Average	Volume: 29.00		CY
Payload Capacity:	30.79 LCY		Adjusted C	Capacity: <b>29.00</b>	т	CY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-12.50	5.00	-7.50	1628	0.61

Haul Time: **0.61** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	12.50	5.00	17.50	832	0.98

Return Time:	0.98	minutes
Total Scraper team cycle time:	3.19	minutes
Adjusted for job conditions:	905.45	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	905.45	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	905.45	LCY/Hour
Unadjusted unit production/hour: 1 000 01 I CV/Hour		

Unadjusted unit production/hour: 1,090.91 LCY/Hour Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	1.86	Hours
Unit cost:	\$0.990	/LCY	Total job cost:	\$1,670	-

# SCRAPER TEAM WORK

ite: Elk Creek Mine		Permit	Action:	SI1	Perr	nit/Job#: <u>C1981</u>	022
PROJECT IDENT	<b>IFICATION</b>						
Task #: 092	St	ate: C	Colorado		Abbrev	viation: None	
Date: 11/18/2	2021 Cour	nty: I	Delta		File	ename: 022-092	2
User: LDS							
Agency or o	organization name:	DRM	S				
HOURLY EQUIP	<u>MENT</u>			COSTS	hift basis: <u>1 per d</u>	ay	
				ent Description			
		raper: Dozer:	Cat 637 NA	G w/push-pull			
Suppo	rt Equipment -Load		NA				
	-Dump		NA				
Road Mai	intenance –Motor G -Water T		NA NA				
		TUCK.	nA –				
Cost Breakdown:	Scraper Work	k Team		Support Equi		Maintenance	
	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water
%Utilization-machine:	100		NA	NA	NA	NA	
Ownership cost/hour:	\$223.48		NA	NA	NA	NA	
Operating cost/hour:	\$193.77		NA	NA	NA	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		NA	NA	NA	NA	
Ripper op. cost/hour:	NA		NA	NA	NA	NA	
Operator cost/hour:	\$30.90		NA	NA	NA	NA	
Unit Subtotals:	\$448.15		NA	NA	NA	NA	
Number of Units:	2	<b>000</b>	0	0	0	0	¢0.
Group Subtotals:	Work:	\$896	.30	Support:	\$0.00	Maint:	\$0.0
Total work team cost/	/hour: <u><b>\$896.30</b></u>						
MATERIAL QUA			~ ~ ~ ~	~ ~ ~ ~			
Initial volume: Loose volume:	<u>3,500</u> <b>3,938</b>		CCY LCY	Swell fact	or: <u>1.125</u>		
	· · · · ·			070			
	rce of estimated volu of estimated swell fa		Map E32 Cat Hand				
		·					
HOURLY PRODU	<u>JCTION</u>						
				Scraper B	owl (volume) Basi	<u>s:</u>	
Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00	L	CY
-		1					CY
Material description:	Earth - Dry packed	1		Heaped	Volume: <u>34.00</u>		CY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	10.00	5.00	15.00	589	1.71

Haul Time: **1.71** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-10.00	5.00	-5.00	2972	0.41
				Return Time:	0.41	minutes
			Total Scrape	r team cycle time:	3.72	minutes
			Adjusted 1	for job conditions:	776.45	LCY/Hour
			Selected Nu	mber of Scrapers:	2	Scraper(s)
	Adjusted	l single scrap	oer team (unit) h	nourly production:	776.45	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet) h	nourly production:	776.45	LCY/Hour
Optima	Unadjusted unit proo al Number of Scrapers pe			LCY/Hour		
JOB TI	IME AND COST					
Flee	t size: 1	Team(s)	Т	otal job time:	5.07	Hours

Unit cost: \_\_\_\_\_\$1.154 /LCY

Total job cost: \_\_\_\_\_\_\$4,545

# SCRAPER TEAM WORK

Site: Elk Creek Min	e	Permi	t Action:	SI1	Peri	nit/Job#:	C19810	022
PROJECT IDE	NTIFICATION							
Task #: 093	S	State:	Colorado		Abbrey	viation:	None	
	8/2021 Co	unty:	Delta		Fil	ename:	022-093	3
User: LDS	·	• _				_		
Agency	or organization name:	DRM	IS					
HOURLY EQU	IPMENT			COSTS	hift basis: <u>1 per d</u>	<u>ay</u>		
				ent Description				
		craper:		7G w/push-pull				
Sur	port Equipment -Loa	Dozer:	NA NA					
Sup		p Area:	NA					
Road I	Aaintenance – Motor		NA					
	-Water	Truck:	NA					
Cost Breakdown	Scraper Wo	rk Team		Support Equi	nment	Maint	tenance I	Equipme
<u>Cost Dicakuowin</u>	Scraper	Do	zer	Load Area	Dump Area	Motor C		Water
%Utilization-machine	: 100		NA	NA	NA		NA	
Ownership cost/hou			NA	NA	NA		NA	
Operating cost/hour			NA	NA	NA		NA	
%Utilization-ripper	: NA		NA	NA	NA		NA	
Ripper own. cost/hour	: NA		NA	NA	NA		NA	
Ripper op. cost/hour	: NA		NA	NA	NA		NA	
Operator cost/hour	: \$30.90		NA	NA	NA		NA	
Unit Subtotals	\$448.15		NA	NA	NA		NA	
Number of Units	: 2		0	0	0		0	
Group Subtotals	: Work:	\$89	6.30	Support:	\$0.00	l	Maint:	\$0.
Total work team c	UANTITIES							
Initial volum Loose volum			CCY LCY	Swell fac	tor: <u>1.125</u>			
S	ource of estimated vo	olume:	Division	of Reclamation,	Mining & Safety			
Source	e of estimated swell	factor:	Cat Hand	dbook				
HOURLY PRO	<b>DUCTION</b>							
				Scraper B	owl (volume) Basi	is:		
Material weigh	t: 2,550 lbs/LCY			Struck	Volume: 24.00		LC	
Material description		ed			Volume: 34.00		LC	
Rated Payloa				Average			LC	
Payload Capacit				Adjusted (			LC	

<u>1.00</u> Minutes

<u>0.60</u> Minutes

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2350.00	-1.00	5.00	4.00	2394	1.21

Haul Time: **1.21** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2350.00	1.00	5.00	6.00	2638	1.06
				Return Time:	1.06	minutes
			Total Scrap	er team cycle time:	3.87	minutes
			Adjusted	for job conditions:	746.36	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	746.36	LCY/Hour
	Adjusted n	nultiple scrap	per team (fleet)	hourly production:	746.36	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	ME AND COST					
	t size: 1	Team(s)	-	Fotal job time:	27.58	Hours

Unit cost: \$1.201 /LCY

Total job cost: \_\_\_\_\_\$24,724

# SCRAPER TEAM WORK

Site: Elk Creek Mine		Permit Action:	SI1	Peri	mit/Job#: <u>C1981</u>	022
PROJECT IDEN	<b>TIFICATION</b>					
Task #: 094	S	tate: Colorado		Abbrev	viation: None	
Date: 11/18/2		nty: Delta		Fil	ename: 022-09	4
User: LDS						
Agency or	organization name:	DRMS				
HOURLY EQUIE	PMENT		COSTS	hift basis: <u>1 per d</u>	<u>ay</u>	
		Equipme	ent Description			
		craper: Cat 637	G w/push-pull			
Suppo	- ort Equipment -Load	Dozer: NA Area: NA				
Suppo	-Dump-Dump					
Road Ma	intenance – Motor C					
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wor	k Team	Support Equi	nment	Maintenance	Fauinme
<u>Cost Dicakdown</u> .	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$223.48	NA	NA	NA	NA	
Operating cost/hour:	\$193.77	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$448.15	NA	NA	NA	NA	
Number of Units:	2	0	0	0	0	
Group Subtotals:	Work:	\$896.30	Support:	\$0.00	Maint:	\$0.
			Swell fact of Reclamation, 1			
HOURLY PROD				owl (volume) Basi	ic.	
Motorial waishes	2 550 lbs/I CV					$\gamma \mathbf{v}$
Material weight: Material description:	2,550 lbs/LCY Earth - Dry packe	d		Volume: 24.00 Volume: 34.00		CY CY
Rated Payload:	81,600 pounds	<u>.</u>	Average			CY
Payload Capacity:	32.00 LCY		Adjusted C			CY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6300 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	10.00	5.00	15.00	589	1.28

Haul Time: **1.28** minutes

### Return Route:

Seg # Ha	aul Distance (Ft)				Velocity (fpm)	Travel Time (min)
		(%)	(%)	(%)		(11111)
1 75	50.00	-10.00	5.00	-5.00	2972	0.32
				Return Time:	0.32	minutes
			Total Scrape	team cycle time:	3.20	minutes
			Adjusted f	or job conditions:	902.63	LCY/Hour
			Selected Nu	mber of Scrapers:	2	Scraper(s)
	Adjusted	single scrape	er team (unit) h	ourly production:	902.63	LCY/Hour
	Adjusted m	ultiple scrape	er team (fleet) h	ourly production:	902.63	LCY/Hour
	Unadjusted unit prod		1,087.50	LCY/Hour		
Optimal Nu	<b>5</b> 1					

Fleet size:	1	Team(s)	Total job time:	5.80	Hours
Unit cost:	\$0.993	/LCY	Total job cost:	\$5,195	_

# SCRAPER TEAM WORK

		Permit	t Action:	SI1	Perr	mit/Job#:	C1981	022
PROJECT IDEN	<b>TIFICATION</b>							
Task #: 095	St	ate: (	Colorado		Abbrev	viation:	None	
Date: 11/18/	2021 Cour	nty:	Delta		Fil	ename:	022-09	5
User: LDS								
Agency or	organization name:	DRM	IS					
HOURLY EQUI	PMENT			COSTS	hift basis: <u>1 per d</u>	ay		
				nt Description				
		raper:		G w/push-pull				
Cum		Dozer:	NA					
Suppo	ort Equipment -Load -Dump		NA NA					
Road Ma	aintenance – Motor G		NA					
	-Water 7		NA					
Cost Breakdown:	Scraper Work			Support Equi			itenance	
	Scraper	Do	zer	Load Area	Dump Area	Motor (	Grader	Wate
%Utilization-machine:	100		NA	NA	NA		NA	
Ownership cost/hour:	\$223.48		NA	NA	NA		NA	
Operating cost/hour:	\$193.77		NA	NA	NA		NA	
%Utilization-ripper:	NA		NA	NA	NA		NA	
Ripper own. cost/hour:	NA		NA	NA	NA		NA	
Ripper op. cost/hour:	NA		NA	NA	NA		NA	
Operator cost/hour:	\$30.90		NA	NA	NA		NA	
Unit Subtotals:	\$448.15		NA	NA	NA		NA	
Number of Units:	2		0	0	0		0	
Group Subtotals:	Work:	\$896	5.30	Support:	\$0.00		Maint:	\$(
Total work team cos								
MATERIAL QUA			COV	0 11 0	1 1 2 5			
Initial volume: Loose volume:	/		CCY LCY	Swell fact	tor: <u>1.125</u>			
0	urce of estimated vol	umo.	Division	of Reclamation, I	Mining & Safety			
Not	of estimated swell fa		Cat Hand					
	<b>UCTION</b>							
Source	<u>UCTION</u>			Scraper Be	owl (volume) Basi	is:		
Source HOURLY PROD Material weight:	2,550 lbs/LCY			Struck	Volume: 24.00	<u>is:</u>		CY
Source	2,550 lbs/LCY Earth - Dry packed	1			Volume: 24.00 Volume: 34.00	<u>is:</u>	LO	CY CY CY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6300 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	4.00	5.00	9.00	1042	0.81

Haul Time: **0.81** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-4.00	5.00	1.00	2963	0.39
				Return Time:	0.39	minutes
			Total Scrape	er team cycle time:	2.80	minutes
			Adjusted	for job conditions:	1,031.57	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	1,031.57	LCY/Hour
	Adjusted n	nultiple scrap	per team (fleet)	hourly production:	1,031.57	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB TI	ME AND COST					

Fleet size:	1	Team(s)	Total job time:	1.09	Hours
Unit cost:	\$0.869	/LCY	Total job cost:	\$977	

Elk Creek Mine	Permit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDENTIFICA	ATION			
Task #: 096	State: Colorado		Abbreviation:	None
Date: $11/18/2021$	County: Delta		Filename:	022-096
User: LDS	Dena		T nename.	022 070
Agency or organiza	tion name: DRMS			
rigency of organiza				
HOURLY EQUIPMENT	<u>COST</u>			
	0T - 10SU	_		
Horsepower: 574	<b>T</b> • 1	_		
	Jniversal	-		
Attachment: NA		_		
Shift Basis: 1 per d	ay	_		
Data Source: (CRG)		_		
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$169.60	NA		
Operating Cost/Hour:	\$166.94	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
	377.84 1,133.53 IES			
Total Fleet Cost/Hour: \$	1,133.53			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT	1,133.53			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250	1,133.53			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY	1,133.53 IES Y	n. Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250         Swell factor:       1.125	<b>1,133.53 IES</b> <u>Y</u> Division of Reclamation	n, Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       Swell factor	<b>IFS</b> Y Division of Reclamation Cat Handbook	n, Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       Swell factor         Source of estimated swell factor       1.125         Source of estimated volume:       281 LCY         Source of estimated swell factor       1.125	1,133.53 IES Y Division of Reclamatio Cat Handbook DN	n, Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       Source of estimated swell factor         Source of estimated swell factor       Source of estimated swell factor         HOURLY PRODUCTIO       Average push distance:	<b>I,133.53 IES</b> <u>Y Division of Reclamation</u> ctor: Cat Handbook <b>DN</b> <u>100 feet</u>	n, Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       Swell factor         Source of estimated swell factor       1.125         Source of estimated volume:       281 LCY         Source of estimated swell factor       1.125	<b>I,133.53 IES</b> <u>Y Division of Reclamation</u> ctor: Cat Handbook <b>DN</b> <u>100 feet</u>	n, Mining & Safety		
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       Source of estimated swell factor         Source of estimated swell factor       Source of estimated swell factor         HOURLY PRODUCTIO       Average push distance:	1,133.53         IES         Y         Y         Division of Reclamation         Cat Handbook         ON         100 feet         n:       1,718.9 LCY/hr			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       200         Source of estimated volume:       300         Source of estimated swell factor:       100         HOURLY PRODUCTIO       Average push distance:         Jnadjusted hourly production       Materials consistency descrip         Average push gradient:       5	1,133.53 IES IES Y Y Division of Reclamatio Cat Handbook DN 100 feet n: 1,718.9 LCY/hr otion: Consolidated stockpi %			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       200         Source of estimated volume:       300         Source of estimated swell factor:       400         HOURLY PRODUCTIO       Average push distance:         Jnadjusted hourly production       400         Materials consistency descript       400         Average push gradient:       5	1,133.53         IES         Y         Y         Y         Cat Handbook         DN         100 feet         n:       1,718.9 LCY/hr         otion:       Consolidated stockpi			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       2000000000000000000000000000000000000	1,133.53 IES IES Y Y Division of Reclamatio Cat Handbook DN 100 feet n: 1,718.9 LCY/hr otion: Consolidated stockpi %			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTIT         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       280         Source of estimated volume:       300         Source of estimated swell fac       400         HOURLY PRODUCTIO       400         Average push distance:       100         Juadjusted hourly production       400         Average push gradient:       5         Average site altitude:       7         Average site altitude:       7         Material weight:       2	1,133.53         IES         Y         Y         Y         On         100 feet         n:       1,718.9 LCY/hr         otion:       Consolidated stockpi         %         ,500 feet			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       2000000000000000000000000000000000000	1,133.53         IES         Y         Y         Y         On         100 feet         n:       1,718.9 LCY/hr         otion:       Consolidated stockpi         %         ,550 feet         ,550 lbs/LCY         arth - Dry packed         ctor			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       280         Source of estimated volume:       300         Source of estimated swell factor:       100         HOURLY PRODUCTIO       Average push distance:         Jnadjusted hourly production       Materials consistency description:         Average push gradient:       5         Average site altitude:       7         Material weight:       2         Veight description:       E         ob Condition Correction Factor       0	1,133.53         IES         Y         Y         Y         ON         100 feet         1,718.9 LCY/hr         otion:       Consolidated stockpi         %         ,500 feet         ,550 lbs/LCY         arth - Dry packed         1:       0.750			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       300         Source of estimated volume:       300         Source of estimated swell factor:       400         HOURLY PRODUCTIO       Average push distance:         Junadjusted hourly production       400         Average push gradient:       5         Average site altitude:       7         Average site altitude:       7         Average fush gradient:       2         Average site altitude:       7         Average site altitude:       7         Average site altitude:       7         Material weight:       2         Decondition Correction Factor       30         Operator Skil       30         Material consistency       30         Stripped base       30         Material consistency       30         Material consistency<	1,133.53         IES         Y         Y         Y         Division of Reclamation         Cat Handbook         DN         100 feet         n:       100 feet         1,718.9 LCY/hr         otion:       Consolidated stockpi         %			
Fotal Fleet Cost/Hour:       \$         MATERIAL QUANTITI         Initial Volume:       250         Swell factor:       1.125         Loose volume:       281 LCY         Source of estimated volume:       280         Source of estimated volume:       300         Source of estimated swell factor:       100         HOURLY PRODUCTIO       Average push distance:         Jnadjusted hourly production       Materials consistency description:         Average push gradient:       5         Average site altitude:       7         Material weight:       2         Veight description:       E         ob Condition Correction Factor       0	1,133.53         IES         Y         Y         Y         Division of Reclamation         Cat Handbook         DN         100 feet         n:       100 feet         1,718.9 LCY/hr         otion:       Consolidated stockping         %			

Task # 096

cy: 0.830	(1 SHIFT/DAY)
le: 0.800	(FND-RF)
nt: 0.903	(CAT HB)
le: 1.000	(CAT HB)
ht: 0.902	(CAT HB)
be: 1.000	(PAT)
on: 0.4056	
697.19 LCY/hr	
2091.57 LCY/hr	
	le: 0.800 nt: 0.903 de: 1.000 ht: 0.902 pe: 1.000 on: 0.4056 697.19 LCY/hr

Fleet size:	3 Dozer(s)
Unit cost:	\$0.542/LCY

Total job time:	<b>0.13</b> Hours
Total job cost:	\$152

# SCRAPER TEAM WORK

Site: Elk Creek Mine	Peri	mit Action:	SI1	Perm	nit/Job#: <u>C</u>	1981022	
PROJECT IDEN	<b><u><b>TIFICATION</b></u></b>						
Task #: 098	State:	Colorado		Abbrev	viation: No	one	
Date: 11/18/2		Delta		File	ename: 02	2-098	
User: LDS							
Agency or	organization name:	RMS					_
HOURLY EQUIE	PMENT		COSTSI	nift basis: <u>1 per da</u>	ay		
	-Scraper		ent Description 7G w/push-pull				_
	-Scraper -Dozer		G w/pusii-puii				_
Suppo	ort Equipment -Load Area						_
	-Dump Area						_
Road Ma	intenance – Motor Grader						_
	-Water Truck	: NA					_
Cost Breakdown:	Scraper Work Tea	m	Support Equip	ment	Maintena	ance Equ	inment
<u>cost Dreakdown</u> .		Dozer	Load Area	Dump Area	Motor Grad		ater T
%Utilization-machine:	100	NA	NA	NA	l	NA	
Ownership cost/hour:	\$223.48	NA	NA	NA	l	NA	
Operating cost/hour:	\$193.77	NA	NA	NA	l	NA	
%Utilization-ripper:	NA	NA	NA	NA	l	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	l	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	l	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	]	NA	
Unit Subtotals:	\$448.15	NA	NA	NA	l	NA	
Number of Units:	2	0	0	0		0	
Group Subtotals:	Work: \$8	396.30	Support:	\$0.00	Ma	int:	\$0.0
Total work team cost MATERIAL QUA Initial volume: Loose volume:		_ CCY _ LCY	Swell fact	or: <u>1.125</u>			
	rce of estimated volume:		Estimate				_
Source	of estimated swell factor:	Cat Han	dbook				_
HOURLY PROD	<u>UCTION</u>						
			Scraper Bo	owl (volume) Basi	<u>s:</u>		
Material weight:	2,550 lbs/LCY		Struck V	Volume: 24.00		LCY	
Material description:	Earth - Dry packed		Heaped V			LCY	
Rated Payload:	81,600 pounds		Average V			LCY	
Payload Capacity:	32.00 LCY		Adjusted C	apacity: <b>29.00</b>		LCY	

<u>1.00</u> Minutes

<u>0.60</u> Minutes

### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-10.00	5.00	-5.00	2972	0.56

Haul Time: **0.56** minutes

### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	10.00	5.00	15.00	1047	1.46
				Return Time:	1.46	minutes
			Total Scrap	er team cycle time:	3.62	minutes
			Adjusted	for job conditions:	797.90	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjusted	d single scra	per team (unit)	hourly production:	797.90	LCY/Hour
	Adjusted m	ultiple scrap	ber team (fleet)	hourly production:	797.90	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			LCY/Hour		

Fleet size:	1	Team(s)	Total job time:	18.89	Hours
Unit cost:	\$1.123	/LCY	Total job cost:	\$16,934	

Elk Creek Mine		Per	mit Action:	SI1	Permit/Job#:	C1981022
PROJECT IDEN	TIFICATIO	DN				
Task #: 103		State:	Colorado		Abbreviation:	None
Date: $11/18/2$	2021	County:	Delta		Filename:	022-103
User: LDS	2021	County.	Delta			022 105
	organization 1	nama: DE	RMS			
Agency of	organization i					
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D10T -	10SU				
Horsepower:	574	1				
Blade Type:	Semi-Unive	rsal		_		
Attachment:	NA					
Shift Basis:	1 per day			_		
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Ho			\$169.60	NA		
Operating Cost/Ho			\$166.94	100		
Ripper own. Cost/Ho			\$0.00	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/He	our:		\$41.30	NA		
MATERIAL QUA Initial Volume:						
Initial Volume: Swell factor:	1,300 1.125					
Initial Volume: Swell factor:	1,300					
Initial Volume: Swell factor: Loose volume:	1,300 1.125 <b>1,463</b> LCY	Map 2.05	  j-M4 (Sheet '	5 of 5): Map 2.05-M5	I	
Initial Volume: Swell factor:	1,300 1.125 <b>1,463</b> LCY volume:	Map 2.05 Cat Hand		5 of 5); Map 2.05-M5	J	
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume:			5 of 5); Map 2.05-M5	J	
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume: swell factor:			5 of 5); Map 2.05-M5	J	
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u>	Cat Hand		5 of 5); Map 2.05-M5 	J	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u> ce:	Cat Hand	book	5 of 5); Map 2.05-M5 	J	
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u> ce:	Cat Hand	book	5 of 5); Map 2.05-M5 	J	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction:	Cat Hand 125 feet 1,450.0 LC	book		J	
Initial Volume:	1,300 1.125 1,463 LCY volume: swell factor: UCTION ce: roduction: y description:	Cat Hand 125 feet 1,450.0 LC	lbook Y/hr		<u>J</u>	
Initial Volume:	1,300 1.125 1,463 LCY volume: swell factor: UCTION ce: roduction: y description: ent:10 %	Cat Hand 125 feet 1,450.0 LC Consol	lbook Y/hr		<u>J</u>	
Initial Volume:	1,300 1.125 1,463 LCY volume: swell factor: UCTION ce: roduction: y description: ent: 10 %	Cat Hand 125 feet 1,450.0 LC Consol	lbook Y/hr		<u>J</u>	
Initial Volume:	1,300         1.125         1,463 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description:         ent:       10 %         c:       6,400	Cat Hand 125 feet 1,450.0 LC Consol	lbook Y/hr		<u>J</u>	
Initial Volume:	1,300         1.125         1,463 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description:         ent:       10 %         ::       2,550	Cat Hand 125 feet 1,450.0 LC Consol feet	book Y/hr idated stockr		J	
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: ent:10 % c;2,550	Cat Hand 125 feet 1,450.0 LC Consol feet lbs/LCY	book Y/hr idated stockr			
Initial Volume:	1,300 1.125 <b>1,463</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description: ent:10 % c;2,550	Cat Hand 125 feet 1,450.0 LC Consol feet lbs/LCY Dry packed	book Y/hr idated stockr			
Initial Volume:	1,300         1.125         1,463 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description:         ent:       10 %         ::       6,400         2,550         Earth         ction Factor         rator Skill:	Cat Hand 125 feet 1,450.0 LC Consol feet bs/LCY Dry packed 0.	book Y/hr idated stockp			
Initial Volume:	1,300         1.125         1,463 LCY         volume:         swell factor:         UCTION         ce:         roduction:         y description:         ent:       10 %         ::       6,400         2,550         Earth         ction Factor         rator Skill:	Cat Hand           125 feet           1,450.0 LC	book Y/hr idated stockp d 750		    	

cy: 0.830	(1 SHIFT/DAY)
le: 0.800	(FND-RF)
nt: 0.786	(CAT HB)
le: 1.000	(CAT HB)
ht: 0.902	(CAT HB)
be: 1.000	(PAT)
on: 0.3531	
512.00 LCY/hr	
<b>512</b> LCY/hr	
	le:       0.800         nt:       0.786         le:       1.000         ht:       0.902         pe:       1.000         pn:       0.3531         512.00 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.738/LCY

Total job time:	<b>2.86</b> Hours
Total job cost:	\$1,079

# **REVEGETATION WORK**

ite: Elk Cre	ek Mine	Permit Action:	SI1	Permit/Job	o#: <u>C1981022</u>
PROJECT Task #:	<b>IDENTIFIC</b> 120	CATION State: Colorado		Abbreviation:	None
	120	County: Delta		Abbreviation. Filename:	C022-120
Date:	11/18/2021	County: Delta			

### **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
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.00	3.26	\$11.73
Bitterbrush, Antelope	1.50	0.46	\$29.25
Aster, Engleman's	0.13	0.60	\$24.44
Mountain Brome - Bromar	1.50	2.41	\$5.70
Great Basin Wildrye - Magnar	0.50	2.03	\$5.78
Sandberg Bluegrass - VNS	0.12	2.55	\$1.01
Sheep Fescue - Covar	1.00	15.61	\$6.10
Milk Vetch, Cicer - Lutana	2.00	6.66	\$16.40
Sainfoin - Remont	2.00	0.87	\$6.32
Thickspike Wheatgrass - Critana	0.25	0.88	\$1.72

Western Wheatgrass - Arriba	0.50	1.26	\$3.25
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Needlegrass, Green - Lodorm	0.50	2.08	\$5.89
Sage, Fringed	0.06	5.01	\$2.46
Sagebrush, Mountain or Big	0.12	6.34	\$2.37
Flax, Lewis Blue	0.66	4.38	\$10.89
Sagebrush, Silver	0.12	2.33	\$3.72
Penstemon, Palmer	0.25	5.53	\$13.63
Penstemon, Rocky Mountain	0.50	7.84	\$14.75
Yarrow, Western	0.06	3.65	\$2.51
Totals Seed Mix	13.27	81.20	\$200.05

### Application

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

### **MULCHING and MISCELLANEOUS**

### Materials

Description	Units /	T	Cost / Unit	Cost /Acre
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	0.05	ACRE	\$7.78	\$0.39
Herbicide - Escort @ 1.0 pt/ac	0.05	ACRE	\$194.52	\$9.73
Total Mulch Materials Cost/Acre				\$10.12

Application

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

### NURSERY STOCK PLANTING

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	10%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$83,113.27 \$5,058.20 \$88,171		- - -	

# **REVEGETATION WORK**

Task description:			<b>Re-seed Drill Pad</b>	, MR's and TR	R's, 46.23 acres @ 29	% failure	
Site:	Elk Cree	k Mine	Pern	nit Action: <u>SI1</u>		Permit/Job#:	C1981022
<u>P</u> F		IDENTIFIC				A11 • .•	Ţ
	Task #: Date:	<u>121</u> <u>11/18/2021</u>		Colorado Delta			None 022-121
	User:	LDS					
	Age	ency or organiz	zation name: DRM	1S			

### **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
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$17.59
Indian Ricegrass - Native	0.50	1.62	\$3.25
Mountain Brome - Bromar	2.00	3.21	\$7.60
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Coreopsis, Lance Leafed	0.15	3.84	\$4.28
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Prairie Junegrass	0.25	13.29	\$6.50
Penstemon, Rocky Mountain	0.15	2.35	\$4.43
Yarrow, White	0.05	3.18	\$2.00

Totals Seed Mix	8.10	69.28	\$71.25	_

### Application

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

### **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

Application

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

### NURSERY STOCK PLANTING

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

	No. of Acres: ed Failure Rate:	0%	Cost /Acre: Cost /Acre*:	
*Selected Replanting	ng Work Items:	NONE		
Initial Job Cost:	\$1,033.47			
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$1,033			
Job Hours:	46.23		_	

# **REVEGETATION WORK**

Task description: <b>Re</b>		Re-seed Light-Use Roads, N	-seed Light-Use Roads, MR's and TR's, 35.59 acres @ 2% fai				
e: Elk Creek Mine		Permit Action:	Permit Action: SI1		Permit/Job#:		
PROJECT	IDENTIFIC	CATION					
Task #:	122	State: Colorado		Abbreviation:	None		
Date:	11/18/2021	County: Delta		Filename:	022-122		
	LDS						

# **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
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$17.59
Indian Ricegrass - Native	0.50	1.62	\$3.25
Mountain Brome - Bromar	2.00	3.21	\$7.60
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Coreopsis, Lance Leafed	0.15	3.84	\$4.28
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Prairie Junegrass	0.25	13.29	\$6.50
Penstemon, Rocky Mountain	0.15	2.35	\$4.43
Yarrow, White	0.05	3.18	\$2.00

Totals Seed Mix 8.10	69.28	\$71.25
	07.20	

#### Application

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

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$7.78	\$15.56
Herbicide - Escort @ 1.0 pt/ac	2.00	ACRE	\$194.52	\$389.04
Total Mulch Materials Cost/Acre				\$404.60

Application

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

## NURSERY STOCK PLANTING

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

#### JOB TIME AND COST

	No. of Acres: I Failure Rate:	0%	Cost /Acre: Cost /Acre*:	
*Selected Replanting	g Work Items:	NONE		
Initial Job Cost:	\$1,033.47		_	
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$1,033			
Job Hours:	35.59		_	

#### **DEMOLITION WORK**

Т	Task description:	Demolish and Remove All	Mine Facilities		
Site:	Elk Creek Mine	Permit Action:	SI1	Permit/J	Job#: <u>C1981022</u>
ROJEO	CT IDENTIFICATI	<u>ON</u>			
Task #:	130	State: Colorado		Abbreviation:	None
Date:	11/18/2021	County: Delta		Filename:	022-130
Dale.	11/10/2021				

Quantity

**Demolition Menu** 

Selection

Conveyor, Horizontal

Bldg. (MN) demo./on-

Belt 24" Belt, 61.5'

site disposal in excavated pit - Max.

Length

#### **UNIT COSTS**

- Pad

Tank

**Overland Conveyors** 

- Transfer Towers (3)

Structure or Item

Description

Dimensions

2,400 LF

10'x20'x25'

#### 15,000.00 Elk Creek Fan 15'x10'x50' Bldg. (MN) demo./on-CF \$3,285.00 \$0.22 site disposal in existing Structures pit or cut - Max. 10,000 ft. haul - Pads 18'x60'x6" Demo. and on-site 2,160.00 SF \$1.00 \$2,162.16 disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul 25'x25'x20' Bldg. (MN) demo./on-12,500.00 CF \$0.22 Substation No. 4 \$2,737.50 site disposal in existing pit or cut - Max. 10,000 ft. haul SF 25'x25'x6" Demo. and on-site 625.00 \$1.00 \$625.63 disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul 100.00 LF - Fencing 100 LF Fencing, chain link, \$3.08 \$308.00 including posts and fabric - 8 ft. to 10 ft. high NON-PCB Transformer - Transformer NA 1.00 EA \$2.238.20 \$2.238.20 Removal 200.000 Gallon Water 200.000 Bldg. (MN) demo./on-28,510.00 CF \$0.24 \$6.728.36 Gallons site disposal in excavated pit - Max. 10,000 ft. haul Rock Dust Tanks (2) 20'x15' Bldg. (MN) demo./on-7,069.00 CF \$0.24 \$1,668.28 Diameter site disposal in excavated pit - Max. 10,000 ft. haul - Pads 256.00 SF 16'x8'x8" Demo. and on-site \$1.33 \$341.50 disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul 8@8.75'x2' Demo. and on-site 24.00 LF \$12.01 \$288.24 - Footings disposal in existing pit, 2.0 ft. x 3 ft. - Max. 10,000 ft. haul

40.00

15,000.00

EA

CF

\$3,125.00

\$0.24

\$125,000.00

\$3,540.00

# Location adjustment: 91.30 %

**Total Cost** 

Unit

Cost

Unit

- Pads	10'x20'x12"	10,000 ft. haul Demo. and on-site	600.00	SF	\$2.00	\$1,201.20
- raus	10 x 20 x 12	disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	000.00	ЪГ	\$2.00	\$1,201.20
Powerlines	3,100 LF	Utility Poles, Wood 35' - 45' high (each pole)	30.00	EA	\$292.00	\$8,760.00
Elk Creek Culvert	300 LF x 9' D	Pipe, corrugated metal (CMP) - 108 in. diameter pipe	300.00	LF	\$51.18	\$15,352.80
Substation No. 1 Transformers (3)	NA	NON-PCB Transformer Removal	3.00	EA	\$2,238.20	\$6,714.60
- Equipment	6'x8'x6'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	288.00	CF	\$0.22	\$61.92
- Pad	25'x25'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	625.00	SF	\$1.00	\$625.63
- Fence	100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	100.00	LF	\$3.08	\$308.00
Explosives Magazine	20'x25'x10'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	10,000.00	CF	\$0.22	\$2,150.00
Dump Station	140'x40'x12'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	67,200.00	CF	\$0.24	\$15,859.20
- Pad	140'x40'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,600.00	SF	\$1.00	\$5,605.60
- Footing	1'x2'x360 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	360.00	LF	\$4.00	\$1,440.00
125 and 500 Ton Steel Bins	NA	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	21,094.00	CF	\$0.24	\$4,978.18
Truck Scale Pad	10'x60'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	600.00	SF	\$2.00	\$1,201.20
- Building	Assume 5' Deep	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,000.00	CF	\$0.22	\$645.00
- Footing	1.5'x3'x140 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	140.00	LF	\$9.01	\$1,261.40
Tipple Structure	30'x50'x50'	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	75,000.00	CF	\$0.24	\$17,700.00

- Pad	30'x50'x12"	10,000 ft. haul Demo. and on-site	1,500.00	SF	\$2.00	\$3,003.00
1 40		disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul				
- Footing	1.5'x3'x160 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	160.00	LF	\$9.01	\$1,441.60
Coal Screening Facility	35'x35'x55'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	67,375.00	CF	\$0.24	\$15,900.50
- Pad	35'x55'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,225.00	SF	\$2.00	\$2,452.45
- Footing	1.5'x3'x140 LF	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft Max. 10,000 ft. haul	140.00	LF	\$9.01	\$1,261.40
Dump Station/Truck Scale Conveyors	140 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	2.00	EA	\$3,125.00	\$6,250.00
Crusher/Feeder Conveyor	160 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	2.00	EA	\$3,125.00	\$6,250.00
Crusher Bypass Conveyor	200 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	3.00	EA	\$3,125.00	\$9,375.00
Silo Feeder Conveyor	380 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.00	EA	\$3,125.00	\$18,750.00
Loadout Feeder Conveyor	350 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.00	EA	\$3,125.00	\$18,750.00
Coal Storage Silo	140'x70' Diameter	Explosive demolition, large projects - Concrete structures	539,000.00	CF	\$0.32	\$172,480.00
- Headhouse	20'x20'x10'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$944.00
- Pad	12"x70' Diameter	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,848.00	SF	\$2.00	\$7,703.70
- Footing	2'x3'x220 LF	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	220.00	LF	\$12.01	\$2,642.20
Batch-Weigh Loadout	27'x27'x100'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	72,900.00	CF	\$0.24	\$17,204.40
- Pad	27'x27'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	729.00	SF	\$2.00	\$1,459.46

- Footing	1.5'x3'x108 LF	Demo. and on-site disposal in existing pit,	108.00	LF	\$9.01	\$973.08
- Surge and Weigh Bins	300 and 120 Tons	1.5 ft. x 3 ft Max.10,000 ft. haulBldg. (MN) demo./on-site disposal inexcavated pit - Max.10,000 ft. haul	14,175.00	CF	\$0.24	\$3,345.30
- Transfer Chutes	40'x36'x18'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	25,920.00	CF	\$0.24	\$6,117.12
- Discharge Chute	40'x36'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,440.00	SF	\$1.00	\$1,441.44
Woman's Change House	45'x30'x14'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	18,900.00	CF	\$0.22	\$4,063.50
- Pad	45'x30'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,350.00	SF	\$1.00	\$1,351.35
Waste Barrel Storage Structure	10'x20'; 30'x30'x12'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	13,200.00	CF	\$0.22	\$2,838.00
- Pads	10'x20'; 30'x30'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,100.00	SF	\$1.00	\$1,101.10
Office Septic Tank	1,500 Gallons	Excavate and load tank onto trailer, non-leaking - 3,000 gal. to 5,000 gal.	1.00	EA	\$614.00	\$614.00
- Remove Septic Tank Sludge	Assume 500 Gals	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$238.00	\$238.00
- Dispose of Sludge	Assume 500	Dispose of tank sludge	500.00	GAL	\$6.80	\$3,400.00
Off-Site - Haul Tank to Certified Dump	Gals 1,500 Gallons	off-site - Average Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Metal Storage Building	30'x60'x12'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	21,600.00	CF	\$0.22	\$4,644.00
- Pad	30'x60'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,800.00	SF	\$1.00	\$1,801.80
Train Car Antifreeze Tanks (2)	12,000 Gallons	Excavate and load tank onto trailer, non-leaking - 9,000 gal. to 12,000 gal.	2.00	EA	\$1,050.00	\$2,100.00
- Remove Sludge from Tank Bottom	Assume 2,400 Gals	Remove sludge, water, and rem. product from	2.00	EA	\$397.00	\$794.00

		tank - 9,000 to 12,000 gal.				
- Dispose of Sludge Off-Site	Assume 2,400 Gals	Dispose of tank sludge off-site - Average	2,400.00	GAL	\$6.80	\$16,320.00
- Haul Tank to Certified Dump	12,000 Gallons	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Train Car Antifreeze Tank	6,000 Gallons	Excavate and load tank onto trailer, non-leaking - 6,000 gal. to 8,000 gal.	1.00	EA	\$880.00	\$880.00
- Remove Sludge from Tank Bottom	Assume 600 Gals	Remove sludge, water, and rem. product from tank - 6,000 to 8,000 gal.	1.00	EA	\$298.00	\$298.00
- Dispose of Sludge Off-Site	Assume 600 Gals	Dispose of tank sludge off-site - Average	600.00	GAL	\$6.80	\$4,080.00
- Haul Tank to Certified Dump	6,000 Gallons	Haul tank to certified salvage dump - 6,000 to 8,000 gal. tank	1.00	EA	\$880.00	\$880.00
Main Septic Tank	3,000 Gallons	Excavate and load tank onto trailer, non-leaking - 3,000 gal. to 5,000 gal.	1.00	EA	\$614.00	\$614.00
- Remove Sludge from Tank Bottom	Assume 500 Gals	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$238.00	\$238.00
- Dispose of Sludge Off-Site	Assume 500 Gals	Dispose of tank sludge off-site - Average	500.00	GAL	\$6.80	\$3,400.00
- Haul Tank to Certified Dump	3,000 Gallons	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Compressor House	30'x54'x16'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	25,920.00	CF	\$0.24	\$6,117.12
- Footers	1'x2'x168 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	168.00	LF	\$4.00	\$672.00
Office	62,424 CF	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	62,424.00	CF	\$0.24	\$14,732.06
- Pad	5,400 SF	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,400.00	SF	\$1.00	\$5,405.40
- Footers	1'x2'x315 LF	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	315.00	LF	\$4.00	\$1,260.00
Bath House	100'x110'x18'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	185,850.00	CF	\$0.24	\$43,860.60
- Pad	100'x110'x6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000	11,000.00	SF	\$1.00	\$11,011.00

		ft. haul	100.00			
- Footers	2'x3'x420 LF	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	420.00	LF	\$12.01	\$5,044.20
Concrete Dams	14'x155'x2'	Wall, concrete, demolition only, average reinforcing - 24 in. thick	2,170.00	SF	\$4.45	\$9,656.50
- Dam Base	15'x155'x2'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	172.00	CY	\$133.50	\$22,962.00
Culvert IIW-4	12"x100 LF	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	100.00	LF	\$4.10	\$409.70
Culvert IIW-5	12"x100 LF	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	100.00	LF	\$4.10	\$409.70
Tank Containment Walls	16'x44'x4' (8")	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	485.00	SF	\$3.08	\$1,493.80
Covered Oil Storage	25'x16'x20'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	6,400.00	CF	\$0.24	\$1,510.40
Water Treatment Room	10'x20'x20'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$944.00
Sump	39.3'x14'x4' (8")	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	426.00	SF	\$3.08	\$1,312.08
Clean Oil/Water/Mud out of Sump	12,000 Gallons	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$397.00	\$397.00
- Dispose of Sludge Off-Site	Assume 2,000 Gals	Dispose of tank sludge off-site - Average	2,000.00	GAL	\$6.80	\$13,600.00
Sanborn Substation No. 2 Transformers	NA	NON-PCB Transformer Removal	3.00	EA	\$2,238.20	\$6,714.60
- Equipment Removal	6'x8'x6'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	288.00	CF	\$0.24	\$67.97
- Pad	25'x25'x12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	625.00	SF	\$2.00	\$1,251.25
- Fence	100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	100.00	LF	\$3.08	\$308.00
Sanborn Overland Conveyor	1500LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	24.00	EA	\$3,125.00	\$75,000.00
- Transfer Buildings (4)	10'x20'x25'	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	20,000.00	CF	\$0.24	\$4,720.00

		10,000 ft. haul				
- Pads (4)	10'x20'x12"	Demo. and on-site	800.00	SF	\$2.00	\$1,601.60
		disposal in existing pit,				
		12 in. thick - Max.				
		10,000 ft. haul				
- Equipment	10'x20'x25'	Bldg. (MN) demo./on-	1,000.00	CF	\$0.24	\$236.00
Removal		site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
Air Compressor	30'x30'x16'	Bldg. (MN) demo./on-	14,400.00	CF	\$0.24	\$3,398.40
Building #2		site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
- Pad	30'x30'x6"	Demo. and on-site	900.00	SF	\$1.00	\$900.90
		disposal in existing pit, 6				
		in. thick - Max. 10,000				
		ft. haul				

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	600.00	(unadjusted):	\$818,804.28	location):	\$747,568.31

### BOREHOLE SEALING WORK

1	Fask description:	Plug and Se	al 7 Monitoring	g wells		
Site:	Elk Creek Mine		Permit Action:	SI1	Permit/J	ob#: <u>C1981022</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>N</u>				
Task #:	131	State:	Colorado		Abbreviation:	None
Date:	11/18/2021	County:	Delta		Filename:	022-131
User:	LDS					
	Agency or organization	tion name:	DRMS			

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
4" Holes (7)	PVC plug - 4 in. diameter borehole	4"	NA	7.00	EA	\$33.98	\$237.86
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	50' EA	15.00	bag	\$19.95	\$299.25
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	7.00	LF	\$3.26	\$22.82
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	7.00	EA	\$37.50	\$262.50
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	42.00	EA	\$176.95	\$7,431.90
Water Truck Time - ALLHoles	Water Tanker, 5,000 Gal.	NA	NA	42.00	EA	\$75.41	\$3,167.22

 Job Hours:
 42.00
 Total Cost:
 \$11,422.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:		bilize/Demobilize	Equipment for	r Initial	Reclamation			
Elk Creek Mine	9	Permit Action: SI1			]	Permit/Job#: C1981022		
PROJECT IDEN	TIFICATI	<u>ON</u>						
Task #: 140		State: Co	olorado		Abbre	eviation: None		
Date: 11/18 User: LDS	8/2021	County: De	elta		Fi	lename: 022-1	40	
Agency or	organization	n name: DRMS						
EQUIPMENT TH	RANSPOR	<u>T RIG COST</u>						
					Shift ba	F =		
					Cost Data Sour			
Truck	Fractor Desc	ription: GENE	RIC ON-HIGH			DR, 6X4, DIESEL	POWERED,	
					P (2ND HALF,			
Truck	Trailer Desc	ription: G				ROP DECK EQUI	IPMENT	
				KAILEI	R (25T, 50T, AN	ND 1001)		
Cost Breakdown:								
Available Rig Ca		0-25 Tons	26-50 Tons		l+ Tons			
Ownership (		\$21.28	\$37.94		\$47.67			
Operating (		\$26.55	\$50.48		\$56.21			
Operator (		\$20.54	\$20.54		\$20.54			
	Cost/Hour:	\$0.00	\$23.53	9	\$23.53			
Total Unit C	Cost/Hour:	\$68.37	\$132.49	\$	147.95			
NON ROADABL	<u>E EQUIPN</u>	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit	
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet	
-	(TONS)		t		fleet			
CAT 815F	22.88	\$91.25	\$68.37	1	\$159.62	\$68.37	\$250.00	
Cat D10T - 10SU	84.53	\$169.60	\$147.95	3	\$952.65	\$443.85	\$750.00	
ATLAS COPCO	0.00	\$94.21	\$68.37	1	\$162.58	\$68.37	\$250.00	
ROC D7-11,4.0 in.								
Cat 336D L 10'-6"	32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00	
Stick	22.55		ф.со. <b>27</b>	1		¢ < 0.27	<b>\$250.00</b>	
CAT 14M	23.57	\$85.80	\$68.37	1	\$154.17	\$68.37	\$250.00	
Cat 637G w/push-	59.59	\$223.48	\$147.95	2	\$742.86	\$295.90	\$500.00	
pull Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00	
Seeder with	23.00	\$1.90	Φ00.57	1	\$70.33	φ <b>00.</b> 37	\$230.00	
Seeder with			1		1	1	1	

Subtotals: \$2,464.14 \$1,145.72 \$2,500.00

### **ROADABLE EQUIPMENT:**

Tractor

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, 6x4, 210 HP	\$46.35	1	\$46.35	\$46.35
Lube Truck, 6x4, 250 HP	\$46.35	1	\$46.35	\$46.35

Flatbed Truck, 6x4, 45K GVW	\$49.15	1	\$	49.15	\$49.15
Light Duty Pickup, 4x4, 1 T.	\$20.51	1	\$	20.51	\$20.51
Crew					
		C		¢200 <b>7</b> 1	¢200 71
		Su	btotals:	\$208.71	\$208.71

1

## **EQUIPMENT HAUL DISTANCE and Time**

GRAND JUNCTION 80.00 40.00	miles mph
\$24,367.72	
\$834.84	
	80.00 40.00 \$24,367.72

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
2.00	2.00
2.00	2.00
0.50	NA
0.50	NA
5.00	4.00
	Roadable           Equipment           2.00           2.00           0.50           0.50

#### JOB TIME AND COST

Total job time: **10.00** Hours

Total job cost: **\$25,203** 

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	Equipment for	r Pond Re	moval			
e: Elk Creek Min	eek Mine Permit Action: SI1				]	Permit/Job#	#: <u>C19</u>	981022
PROJECT IDEN	TIFICAT	ION						
Task #: 141		State: Co	olorado		Abbre	eviation:	None	
Date: 11/1	8/2021	County: De	lta		Fi	ilename:	022-14	1
User: LDS	5							
Agency o	r organizatio	n name: DRMS						
<u>EQUIPMENT T</u>	RANSPOR	<u>T RIG COST</u>						
					Shift ba	sis: 1	per day	
				C	Cost Data Sour		RG Data	
Truck	Tractor Desc	-	RIC ON-HIGH	400 HP	(2ND HALF,	2006)		
Truck	Trailer Desc	cription: Gl	ENERIC FOLD		,		EQUI	PMENT
			]	RAILER	(25T, 50T, AN	ND 100T)		
Cost Breakdown:								
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons			
Ownership	Cost/Hour:	\$21.28	\$37.94	\$4	7.67			
	Cost/Hour:	\$26.55	\$50.48		6.21			
	Cost/Hour:	\$20.54	\$20.54		20.54			
	Cost/Hour:	\$0.00	\$23.53		23.53			
Total Unit	Cost/Hour:	\$68.37	\$132.49	\$14	47.95			
NON ROADABI	LE EQUIPI	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return T	rip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/		Cost/ fleet
I. I.	(TONS)		t	-	fleet			
Cat D10T - 10SU	84.53	\$169.60	\$147.95	1	\$317.55	\$147.95		\$250.00
Cat 623G	41.35	\$207.90	\$132.49	1	\$340.39	\$132.49		\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37		\$250.00

Subtotals: \$734.29 \$348.81 \$750.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$49.15	1	\$49.15	\$49.15
		Subtotals:	\$49.15	\$49.15

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	DELTA	
Total one-way travel distance:	45.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$5,753.69	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$126.39	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.29	1.29
Return Time (Hours):	1.29	1.29
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.57	2.57

#### JOB TIME AND COST

Total job time: 7.14 Hours

Total job cost: \$5,880

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Elk Creek Min	K Mine     Permit Action: SI1			Permit/Job#: C1981022				
PROJECT IDEN	TIFICATI	<u>ON</u>						
Task #: 142		State: Co	olorado		Abbre	eviation: None		
Date: 11/18/2021 County: Delta			elta	Filename: 022-142				
User: LDS								
Agency of	r organization	name: DRMS						
EQUIPMENT T	RANSPOR'	<u>T RIG COST</u>						
					Shift ba	sis: 1 per da	у	
				C	Cost Data Sour	rce: CRG Da	ta	
Truck	Tractor Desci	ription: GENE	RIC ON-HIGHV	WAY TRU	CK TRACT(	DR. 6X4. DIESEL	POWERED.	
Truck	Tractor Desci	ription: GENE	RIC ON-HIGHV		CK TRACTO (2ND HALF,	OR, 6X4, DIESEL 2006)	L POWERED,	
	Tractor Descr Trailer Descr			400 HP	(2ND HALF,		-	
			ENERIC FOLD	400 HP ING GOO	(2ND HALF,	2006) ROP DECK EQU	-	
			ENERIC FOLD	400 HP ING GOO	(2ND HALF, SENECK, DF	2006) ROP DECK EQU	-	
Truck	Trailer Desci		ENERIC FOLD	400 HP ( ING GOO TRAILER (	(2ND HALF, SENECK, DF	2006) ROP DECK EQU	-	
Truck <u>Cost Breakdown:</u> Available Rig Ca Ownership	Trailer Descr pacities Cost/Hour:	ription: Gi	ENERIC FOLD T 26-50 Tons \$37.94	400 HP ( ING GOOS TRAILER ( 51+ \$4	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN) (25T, 50T, AN) (2	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating	Trailer Descr pacities Cost/Hour: Cost/Hour:	ription: Gi	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN) (25T, 50T, AN (25T, 50T, AN) (25T, 50T, AN) (25	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour:	o-25 Tons           \$21.28           \$26.55           \$20.54	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, 50	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	o-25 Tons           \$21.28           \$26.55           \$20.54	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, 50	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) ROP DECK EQU	-	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) ROP DECK EQUIND 100T)	IPMENT DOT Permit	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49	400 HP ( ING GOO) TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2 \$14	(2ND HALF, SENECK, DF (25T, 50T, AN 7.67 6.21 0.54 3.53 47.95	2006) ROP DECK EQUI ND 100T)	IPMENT	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI	Trailer Descr pacities Cost/Hour: Cost/Cost/Hour: Cost/	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37 <b>IENT:</b> Owner ship           Cost/hr/ unit	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2 \$1 \$1	(2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN)(25T, AN (25T, 50T, AN	2006) ROP DECK EQUIND 100T) Return Trip Cost/hr/ fleet	IPMENT DOT Permit Cost/ fleet	
Truck Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI	Trailer Descr pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Weight/ Unit	0-25 Tons           \$21.28           \$26.55           \$20.54           \$0.00           \$68.37           IENT:           Owner ship	ENERIC FOLD T 26-50 Tons \$37.94 \$50.48 \$20.54 \$23.53 \$132.49 Haul Rig Cost/hr/uni	400 HP ( ING GOOS TRAILER ( 51+ \$4 \$5 \$2 \$2 \$2 \$1 \$1	(2ND HALF, SENECK, DF (25T, 50T, AN 7.67 6.21 0.54 3.53 47.95 Haul Trip Cost/hr/	2006) ROP DECK EQUIND 100T)	IPMENT DOT Permit	

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$49.15	10	\$491.50	\$491.50
		Subtotals:	\$491.50	\$491.50

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	DELTA 45.00 45.00	miles
Total Non-Roadable Mob/Demob Cost *	\$12,892.20	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$983.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	2.50	NA
Unloading Time (Hours):	2.50	NA
Subtotals:	7.00	2.00

#### JOB TIME AND COST

Total job time: 14.00 Hours

Total job cost: \_\_\_\_\_\$13,875

#### SITE MAINTENANCE

	Task description:	Yearly site	maintenance			
Site:	Elk Creek Mine		Permit Action:	SI1	Permit/J	Job#: <u>C1981022</u>
ROJE	CT IDENTIFICATI	<u>ON</u>				
Task #:	: 150	State:	Colorado		Abbreviation:	None
Date:	11/18/2021	County:	Delta		Filename:	022-150
User:	LDS					

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Pond Cleaning	10.00	Cat 307D 7'-3" Stick	100.00	EA	\$86.23	\$8,623.00
Elk Creek Stream	2.00	Cat D3K XL - 3P	20.00	EA	\$96.36	\$1,927.20
Channel Maintenance						
Elk Creek Ditch	2.00	Cat 307D 7'-3" Stick	20.00	EA	\$86.23	\$1,724.60
Maintenance						

Job Hours: 140.00

Total Cost: \$12,274.80