

1313 Sherman St. Room 215 Denver, CO 80203

February 27, 2020

Mr. George Glasier Pinon Ridge Mining LLC P O Box 825 31161 Highway 90 Nucla, CO 81424

Re: St Jude Mine, Permit No. M-1978-039-HR, Financial Warranty Increase, Revision No. SI-3

Dear Mr. Glasier:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$69,828.00</u>. This is an increase of <u>\$8,807.00</u> over the <u>\$61,021.00</u> currently held by the Division. This estimate is based on conditions observed during the February 11, 2020 inspection. The additional amount needs to be submitted and accepted prior to **Monday, April 27, 2020**.

Please make arrangements with Gabriel Benvenuti at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Gabriel Benvenuti.

If you require additional information, or have questions or concerns, please feel free to contact me. Lucas West at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203, by phone at 303-866-3567 Extension 8187 or by email at lucas.west@state.co.us.

Sincerely,

Lucas J. West Environmental Protection Specialist

Enclosure: Reclamation Cost Estimate Worksheets



CC: Gabriel R. Benvenuti, DRMS Statewide Financial Warranty Specialist James Blair, Bureau of Land Management Travis Marshall, Senior Environmental Protection Specialist Russ Means, Active Mines Program Director (Minerals) Jeff Fugate, DRMS Minerals AGO Counsel

COST SUMMARY WORK

e: _	St Jude N	Aine	Per	mit Action:	2020 Update	Permit/Jol	o#: M1978039HR
PF	ROJECT	IDENTIFICA	<u>rion</u>				
	Task #:	000	State:	Colorado		Abbreviation:	None
	Date:	2/25/2020	County:	San Migue	[Filename:	M039-000
	User:	LJW					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish onsite structures; underground or surface disposal	DEMOLISH	1	30.00	\$8,414
002a	Remove Operational Soils from lined ore pad, fold up liner	EXCAVATE] 1	0.75	\$101
002b	Load and Carry liner underground for disposal	TRUCK1] 1	0.74	\$146
002c	Grade out material from deconstructed Ore Pad	DOZER] 1	0.38	\$107
003	Portal closure (backfill and recontour)	MINESEAL] 1	24.00	\$6,220
004	Grade waste dump (DRA), pad and portal areas	DOZER] 1	21.39	\$6,042
005	Rip compaction on pad and Roads	RIPPER] 1	5.63	\$1,644
006	Carry topsoil to pad for spreading	LOADER] 1	11.57	\$980
007	Spread topsoil on pad areas	DOZER] 1	2.84	\$801
008	Grade access road	DOZER] 1	0.52	\$147
009	Revegetate disturbed areas	REVEGE] 1	24.00	\$16,289
010	Haul reclamation equipment to and from site	MOBILIZE] 1	10.00	\$9,043
		<u>SUBTO</u>	TALS:	131.82	\$49,934

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$1,009
Performance bond:	1.05		Total =	\$524
Job superintendent:	65.91		Total =	\$4,573
Profit:	10.00		Total =	\$4,993
			TOTAL O & P =	\$11,100
	CONT	RACT AMOUNT	(direct + O & P) =	\$61,034
LEGAL - ENGINEERING - PRO	DJECT MANAGEMENT	:		
Financial warranty processi	ng (legal/related costs):	\$500	Total =	\$500
Engineering work and/or c	ontract/bid preparation:	8.59	Total =	\$5,243
Reclamation managemen	t and/or administration:	5.00	_	\$3,052
	CONTINGENCY:	0.00	Total =	\$0
		TOTAL IN	DIRECT COST =	\$19,894
	TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$69,828

DEMOLITION WORK

Т	ask description:	Demolish ons	ite structures;	underground or	surface disposal		
Site: _	St Jude Mine	Po	ermit Action:	2020 Update	Permit	/Job#:	M1978039HR
<u>PROJEC</u>	T IDENTIFICATIO	N					
Task #:	001	State:	Colorado		Abbreviation:	None	
Date:	2/25/2020	County:	San Miguel		Filename:	M039	-2020
User:	LJW	_					

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Shop/dry/office metal bldg.	40x50x15	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	30,000.00	CF	\$0.18	\$5,460.00
Shop/dry/office bldg. concrete slab	40x50	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	2,000.00	SF	\$0.60	\$1,190.00
Denison-owned powerlines	630 LF	Disposal of utility pole cross arms and hardware surplus material	630.00	LF	\$0.01	\$6.30
Electric substation, fenced	10x15x6	Fencing, chain link, including posts and fabric - to 6 ft. high	50.00	LF	\$2.68	\$134.00
Electric transformers, non- PCB	20x36 in	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$609.35	\$1,218.69
Wood-cribbed loadouts	40x15x5	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	3,000.00	CF	\$0.18	\$534.00
Misc parts and debris	20x20x10 mass	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	150.00	СҮ	\$0.93	\$140.10

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	30.00	(unadjusted):	\$8,683.09	location):	\$8,413.91

HYDRAULIC EXCAVATOR WORK

Task description:	Remove Operat	tional Soils	from lined ore p	o <mark>ad, fold up l</mark> ii	ner	
ite: St Jude Mine	Pe	ermit Action	n: 2020 Update		Permit/Job	#: M1978039HR
PROJECT IDENTIF	ICATION					
Task #: 002A Date: 2/25/2020 User: LJW	0 State: County:	Colorado San Migu			previation: Filename:	None M039-002a
Agency or orga	anization name:	RMS				
HOURLY EQUIPM	ENT COST					
Basic Machine: Attachment 1:	Cat 324D L 9'-8" ROPS Cab	Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	2 1 p	194 4.85 er day CRG)
Cost Breakdown:		1				
Ownership Cost Operating Cost Operator Cost Total Unit Cost	/Hour: \$49. /Hour: \$37.	99 27	Utilization % NA 100 NA			
Total Fleet Cos		4.03				
	200 267	_ CCY _ LCY	Swell fac	tor: 1.335		
	of estimated volume:)' ore pad, 1.5' de	eep / 27 = 200	СҮ	
	stimated swell factor:	Cat Har	пароок			
HOURLY PRODUC	<u>TION</u>					
Excavator Cycle Time (1	oad bucket, swing loa	aded, dump	bucket, swing en	<u>npty):</u>		
			Condition Descrip			
	Secondary Job Co	ndition with	in Basic Descrip Cycle Time Va		AGE	minutes
Load Bucket Capacity			Cycle Thile Vi	arue. 0.275		minuces
				Bucket Size	Class: <u>M</u>	edium
Rated Capaci Bucket Fill Fact		_ LCY (h	eaped) naterial - 1/8" to 2	1/8" (OA 050/	0.025	
Adjusted Capaci		LCY		5/8 (90-95/6	0.925	
Job Condition Correction	n Factors		Sit	te Altitude: <u>580</u>	<u>)0</u> feet	
I	1.00 0.83 0.83 adjusted Hourly Unit Adjusted Hourly Unit	Production	e IB) day) er :428.09 :355.31	LCY/Hou LCY/Hou	r r	
A	djusted Hourly Fleet	Production	:355.31	LCY/Hou	r	
JOB TIME AND CO	<u>ost</u>					
Fleet size:	l Excava	tor 7	Fotal job time:	0.7	/5	Hours
Unit cost:\$0).377 /LCY		Total job cost:	<u>\$1</u>	01	

TRUCK/LOADER TEAM WORK

Site: St Jude Mine		Perm	it Acti	ion: <u>2020 Upda</u>	ite	Permit/Job#	: <u>M197803</u>	9HR
PROJECT IDENT	<u>FIFICATION</u>							
Task #: 002B		State:	Colora	obe	Abl	previation:	None	
Date: $\frac{002B}{2/25/2}$			San M				M039-002b	
User: LJW								
Agency or	organization nam	e: DRM	1S					
HOURLY EQUIP	MENT COST				Shift ba	sis: <u>1 per day</u>		
				Equipment Descri	ption			
Tı	ruck Loader Team			eric 2-4 cy, 4x2				
		-Loader:	Cat NA	324D L 9'-8" St	ick			
Suppo	ort Equipment -Lo	np Area:	NA NA					
Road Ma	intenance – Motor		NA					
	-Wate	er Truck:	NA					
Cost Breakdown:	Truck/Load				Equipment		enance Equip	
	Truck	Excavator		Load Area	Dump Area	Motor Grader	Water T	ruck
%Utilization-machine:	100		100	NA	NA	N	A	NA
Ownership cost/hour:	\$9.75	\$4	6.78	NA	NA	N.	A	NA
Operating cost/hour:	\$22.73	\$4	9.99	NA	NA	N.	A	NA
%Utilization-riper:	NA		0	NA	NA	N.	A	NA
Ripper own. cost/hour:	NA	\$	0.00	NA	NA	N.	A	NA
Ripper op. cost/hour:	NA	\$	0.00	NA	NA	N.	A	NA
Operator cost/hour:	\$31.87	\$31	7.27	NA	NA	N.	A	NA
Unit Subtotals:	\$64.35	\$134	4.03	NA	NA	N	A	NA
Number of Units:	1		1	0	0		0	C
Group Subtotals:	Work:	\$198.38		Support:	\$0.00	Main	t: \$0.00	
Total work team cost	/haum @100.20							
Total work team cost	/110ur: <u>\$196.36</u>							
MATERIAL QUA	NTITIES							
Initial volume:			CCY	Swell f	factor: 1.000			
Loose volume:	75		LCY					
	rce of estimated v		Rolle	d and folded 30 l	Mil PVC Liner			
Source of	of estimated swell			Iandbook				
	Material Purchas		\$0.00					
	Tot	al Cost:	\$0.00	1.1				

HOURLY PRODUCTION

True	ek C	apa	city:

TTuck Cape	acity.		
Truck Paylo	ad (we	ight)	Basis:

Material weight:	<u> </u>	Pounds/LCY	
Description:	User Provided		
Rated Payload:	12,420	Pounds	

Truck/Loader Worksheet Con	nt'd	Task # 002B			Page 2 of	3
Payload Capacity:	12,420.00	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	2.00	LCY				
Heaped Volume:	4.00	LCY				
Average Volume:	3.00	LCY				
Adjusted Volume:	4.00	LCY				
Final	Fruck Volume I	Based on Number of L	oader Passes:	4.07	LCY	
Loading Tool Capacity						
Poted Conscitu	2 260		Buck	et Size Class: <u>N</u>	/ledium	_
Rated Capacity: Bucket Fill Factor:	2.260	LCY (heaped) Other - cemented	1 matariala (9	5 - 95%) 0.900		-
Adjusted Capacity:	2.034	LCY	i materiais (o	5 - 95%) 0.900		-
rujusten onpuorty.	2.004					
Job Condition Corrections:	_	Site	e Altitude (ft.):	5800 feet		
	Truck	Loader	Source	<u>. </u>		
Altitude Adj:	1.000	1.000	(CAT HB	<u> </u>		
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	I	Number of Loading To	ool Passes Requ	ired to Fill	2	passes
Excavators and Front Shove	<u>ls:</u>	-		Truck:	2	-
Machine Cycle Time v	s. Job Condition	n Rating: ABOVE	AVERAGE			
Selected Value	within this Basi	c Rating: AVERAC	GE			
Track Loaders –		iption:				
Cycle Time Elements (min.):						
Load: NA	M	laneuver: NA		Dump:0.10	0	
Wheel and Track	k Loaders - Una	adjusted Basic Loader	•	ad, dump, naneuver):	NA min	utes
Cycle Time Factors				Factor (min.)	Source	
Material:	NA			NA	(Cat HB)	_
Stockpile:	NA			NA	(Cat HB)	_
Truck Ownership:	NA			NA	(Cat HB)	_
Operation:	NA			NA	(Cat HB)	_
Dump Target:	NA	Net Cycle Time	A diustment:	NA NA	(Cat HB)	
		Adjusted Loader	-	0.239	minutes minutes	
		Net Load Tin		0.339	minutes	
Truck Cycle Time:				- 94- 1		
Truck Exchange Time	e: 0.50	Minutes	Adjusted 1	for site altitude:	0.500	Minutes
Truck Load Time		Minutes	-	for site altitude:	0.339	Minutes
Truck Maneuver and Dum Time	p 0.80	Minutes	-	for site altitude:	0.800	Minutes
Truck Travel (Haul & Return penetration 4.0	-	— Road Condition: <u>R</u>	utted dirt, little	maintenance, no v	vater, 1" tire	

Seg #	Haul D	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	(Ft)			(%)	(%)	(fpm)	Time (min)		
1	350.00)	0.00	4.00	4.00	2665	0.204]	
					Haul Time:	0.204	n	ninutes	
Return Ro									
Seg #	Haul E	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	(Ft)			(%)	(%)	(fpm)	Time (min)		
1	350.00)	0.00	4.00	4.00	2849	0.150		
					Return Time:	0.150)	minutes	
				Total Tru	ck Cycle Time:			minutes	
Loading Too	olunit				-				
-	uction	290.92	LCY/Hour		Adjusted for jo	b efficiency:	24	1.46	LCY/Hour
ck Unit Produ	uction				5 5	2			
ck Unit Prod	uction	122.47	LCY/Hour		Adjusted for jo	-	10	1.65	LCY/Hour
ck Unit Produ mal No. of Ti	-	122.47	LCY/Hour Truck(s)			bb efficiency:	10	1.65	_ LCY/Hour _ Truck(s)
	-		Truck(s)		Adjusted for jo	bb efficiency: er of Trucks:		1.65 <u>1</u> LCY/F	_ Truck(s)
	-		— Truck(s) Adjusted	l hourly truck	Adjusted for jo Selected Numb team productio	bb efficiency: er of Trucks: on:101	.65	1	_ Truck(s) Iour
	-	2	Truck(s)	l hourly truck e truck/loader	Adjusted for jo Selected Numb team production team production	bb efficiency: er of Trucks: on: <u>101</u>	.65	l LCY/ł	- _ Truck(s) łour łour
mal No. of Ti	_ rucks:	2 A	Truck(s) Adjustec Adjusted single	l hourly truck e truck/loader	Adjusted for jo Selected Numb team production team production	bb efficiency: er of Trucks: on: <u>101</u>	.65	l LCY/ł LCY/ł	- _ Truck(s) łour łour
	_ rucks:	2 A	Truck(s) Adjustec Adjusted single	l hourly truck e truck/loader	Adjusted for jo Selected Numb team production team production	bb efficiency: er of Trucks: on: <u>101</u>	.65	l LCY/ł LCY/ł	- _ Truck(s) łour łour
mal No. of Ti		2 A	Truck(s) Adjustec Adjusted single	l hourly truck e truck/loader e truck/loader	Adjusted for jo Selected Numb team production team production	bb efficiency: er of Trucks: on: <u>101</u>	.65 .65 .65	l LCY/ł LCY/ł	_ Truck(s) lour lour lour lour

_

BULLDOZER WORK

	Permit Action:	2020 Update	Permit/Jo	b#: <u>M1978039H</u>
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 002C	State: Colorado		Abbreviation:	None
Date: 2/25/2020	County: San Migu	el	Filename:	M039-002c
User: LJW				
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	: D9T - 9SU			
Horsepower: 405		_		
	ni-Universal	_		
	hank ripper	_		
	er day	-		
Data Source: (CF	RG)	_		
Cost Breakdown:				
	* * * * * *	Utilization %		
Ownership Cost/Hour:	\$121.49	NA 100		
Operating Cost/Hour: Ripper own.	\$105.84	100		
Cost/Hour:	\$13.94	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.24	NA		
-				
Total unit Cost/Hour:	\$282.50			
Total Fleet Cost/Hour:	\$282.50			
Total Fleet Cost/Hour: MATERIAL QUANT				
MATERIAL QUANT	ITIES			
MATERIAL QUANT Initial Volume: 200 Swell factor: 1.33	ITIES			
MATERIAL QUANTInitial Volume:200Swell factor:1.33Loose volume:267	ITIES 5 LCY	and Operational Soils		
MATERIAL QUANT Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu	ITIES 5 LCY Ime: Ore Pad underlaymer	nt and Operational Soils		
MATERIAL QUANT Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu	ITIES 5 LCY Ime: Ore Pad underlaymer	nt and Operational Soils		
MATERIAL QUANT Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu	ITIES 5 LCY Ime: Ore Pad underlaymer	nt and Operational Soils		
MATERIAL QUANT Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated swell Source of estimated swell factor:	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook	nt and Operational Soils		
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated swell Source of estimated swell factor: HOURLY PRODUCT 1.33	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook	nt and Operational Soils		
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: HOURLY PRODUCT Average push distance: 1.33	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook TION 50 feet	nt and Operational Soils		
MATERIAL QUANT! Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: HOURLY PRODUCT Average push distance: Unadjusted hourly	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook	nt and Operational Soils		
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: HOURLY PRODUCT Average push distance: 1.33	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook TION 50 feet	nt and Operational Soils		
MATERIAL QUANT! Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	ITIES 5 LCY ume: Ore Pad underlaymen 11 Cat Handbook TION 50 feet			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: 400 HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de	5 5 LCY ame: Ore Pad underlaymer 11 Cat Handbook *ION 50 feet 2,110.5 LCY/hr escription: Compacted fill or escription			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: 1.33 HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push	ITIES 5 LCY Ime: Ore Pad underlaymen 11 Cat Handbook TION 50 feet 2,110.5 LCY/hr			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: 1.33 HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push Average push gradient:	S S LCY ume: Ore Pad underlaymen II Cat Handbook Cat Handbook SO feet 2,110.5 LCY/hr escription: Compacted fill or e 0 %			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated swell Source of estimated swell factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push	5 5 LCY ame: Ore Pad underlaymer 11 Cat Handbook *ION 50 feet 2,110.5 LCY/hr escription: Compacted fill or escription			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swelfactor: 1.33 HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push Average push gradient:	S S LCY ume: Ore Pad underlaymen II Cat Handbook Cat Handbook SO feet 2,110.5 LCY/hr escription: Compacted fill or e 0 %			
MATERIAL QUANTI Initial Volume: 200 Swell factor: 1.33 Loose volume: 267 Source of estimated volu Source of estimated volu Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	ITIES 5 LCY ume: Ore Pad underlaymer II Cat Handbook IION			

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3341

Adjusted unit production:	705.12 LCY/hr	
Adjusted fleet production:	705.12 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.401/LCY	

Total job time:	0.38 Hours	
Total job cost:	\$107	

SAFEGUARDING UNDERGROUND OPENINGS

	ask description:		re (backfill and				
Site: S	St Jude Mine		Permit Action:	2020 Update	Permit	/Job#:	M1978039HR
<u>PROJEC</u>	T IDENTIFICAT	ION					
Task #:		State:	Colorado		Abbreviation:	None	
Date: User:	2/25/2020 LJW	County:	San Miguel		Filename:	M03	9-2020
	Agency or orga	mization name:	DRMS				
UNIT CO	<u>STS</u>						

Opening Description Dimensions Unit **Closure Method** Quantity 10x10 CY Backfill inert Adit closure - backfilling 200.00 debris/rock in adit (per cu. yd.) Backfill earth and 10x10 Adit closure - backfilling 111.00 CY

(per cu. yd.)

Job Hours: _____24.00

recontour portal

Total Cost: \$6,220.00

Total Cost

\$4,000.00

\$2,220.00

Unit

Cost

\$20.00

\$20.00

BULLDOZER WORK

		mp (Data), p	ad and portal areas		
ite: St Jude Mine	Pe	rmit Action:	2020 Update	Permit/Jo	b#: <u>M1978039HR</u>
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 004 Date: 2/25/2020 User: LJW	State: County:	Colorado San Miguel		Abbreviation: Filename:	None M039-2020
Agency or organ	ization name:D	RMS			······································
HOURLY EQUIPMEN	NT COST				
Horsepower: 405			- 3		
	ni-Universal hank ripper		-0		
Shift Basis: 1 pe	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
Ownership Cost/Hour:		\$121.49	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$105.84	100		
Ripper own.		\$13.94	NA		
Cost/Hour: Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.24	NA		
Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: <u>12,0</u> Swell factor: 1.33.	00				
	20 LCY				
Source of estimated volu Source of estimated swel factor:			on, Mining & Safety		
HOURLY PRODUCT	ION				
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LC	Y/hr			
Materials consistency de	scription: <u>Conso</u>	lidated stockp	ile 1.0		
Average push gradient:	5 %				
Average site altitude:	5,800 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Sandstone				

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3549

Adjusted unit production:	749.02 LCY/hr	
Adjusted fleet production:	749.02 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.377/LCY

Total job time:	21.39 Hours
Total job cost:	\$6,042

BULLDOZER RIPPING WORK

Task description:	Rip compaction on	pad and l	Roads				
ite: St Jude Mine	Permi	it Action:	2020 Update		Permit/Jol	b#: <u>M197</u>	78039HR
PROJECT IDENTIFIC	ATION						
Task #: 005	State: C	Colorado		Abb	reviation:	None	
Date: 2/25/2020		San Miguel			Filename:	M039-20	20
User: LJW		6					
Agency or organiz	zation name: DRM	S					
HOURLY EQUIPMEN	10						
Basic Machine:				Horsepower:		405	
Ripper Attachment:			_	Shift Basis:	-	per day	
Ripper Attachment.	J Dhank Hipper		_	Data Source:		CRG)	
Cost Breakdown:					`	,	
				Utilization %			
	hip Cost/Hour:		\$121.49	NA	_		
	ting Cost/Hour:		\$105.84	100	_		
Ripper Owners			\$13.94	NA	_		
	ting Cost/Hour:		\$8.96	100	_		
-	Init Cost/Hour:		\$41.24	NA	-		
			\$291.46				
Total Fl	leet Cost/Hour:	\$291.	.46				
MATERIAL QUANTIT Alternate Methods: hic: NA ea: 4.00 acr	Bank	Volume:	NA 1.00	ВСҮ	6.453	NA	BCY or 0
Alternate Methods: nic: NA ea: 4.00 acr	Bank	Volume: epth (ft):	NA 1.00		6,453	NA	BCY or C
Alternate Methods: nic: NA ea: 4.00 acr	Bank res Rip De of estimated quantity:	Volume: epth (ft):	NA 1.00	ВСҮ	6,453	NA	BCY or C
Alternate Methods: nic: NA ea: 4.00 acr Source o	Bank res Rip De of estimated quantity: <u>ON</u>	Volume: epth (ft): AM-1 n	NA 1.00 naps	ВСҮ	6,453	NA	BCY or C
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION	Bank res Rip De of estimated quantity:	Volume: epth (ft): AM-1 n	NA 1.00	ВСҮ		NA	BCY or C
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION	Bank res Rip De of estimated quantity: <u>ON</u>	Volume: epth (ft): AM-1 n	NA 1.00 naps	BCY Volume: feet/set	cond	NA	BCY or C
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A	Bank res Rip Do of estimated quantity: ON Seismic Velocity Average Ripping Depth	Volume: epth (ft): AM-1 n y:	<u>NA</u> 1.00 naps NA 2.63	BCY Volume: feet/se	cond	NA	BCY or 0
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A A	Bank res Rip Do of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Width	Volume: epth (ft): AM-1 n y: h:	NA 1.00 naps NA 2.63 7.67	BCY Volume: feet/sec feet/pa	cond ss ss	NA	BCY or (
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A A	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Width verage Ripping Length	Volume: epth (ft): <u>AM-1 n</u> y: h: h: h:	<u>NA</u> 1.00 naps NA 2.63 7.67 250.00	BCY Volume: feet/set feet/pa feet/pa feet/pa	cond ss ss ss	NA	BCY or C
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A A A A	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Width verage Ripping Length Average Dozer Speed	Volume: epth (ft): <u>AM-1 n</u> y: h: h: d:	NA 1.00 maps NA 2.63 7.67 250.00 88.00	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa	cond ss ss ss inute	NA	BCY or 0
Alternate Methods: hic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A A A A A	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Width verage Ripping Length	Volume: epth (ft): <u>AM-1 n</u> y: h: h: d: e:	<u>NA</u> 1.00 naps NA 2.63 7.67 250.00	BCY Volume: feet/set feet/pa feet/pa feet/pa	cond ss ss iss inute s/pass	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source o HOURLY PRODUCTION Seismic: Area: A A A A A	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Width verage Ripping Length Average Dozer Speed verage Maneuver Time Production per unit area	Volume: epth (ft): <u>AM-1 n</u> y: h: h: d: e:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/mi feet/mi	cond ss ss iss inute s/pass	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: Area: A Area: A Job Condition Correction Experimentation	Bank res Rip De of estimated quantity: ON Seismic Velocity Verage Ripping Depth Verage Ripping Uength Average Ripping Length Average Maneuver Time verage Maneuver Time voduction per unit area	Volume: epth (ft): <u>AM-1 n</u> y: h: h: h: d: e: a:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa	cond ss ss ss inute es/pass nour	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: Area: A Area: A Job Condition Correction Experimentation	Bank res Rip De of estimated quantity: ON Seismic Velocity Verage Ripping Depth Verage Ripping Uength Average Ripping Length Average Maneuver Time verage Maneuver Time roduction per unit area factors Hourly Unit Production	Volume: epth (ft): AM-1 n y: h: h: h: h: a: n:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/mi minute acres/h Acres/	cond ss ss ss inute es/pass nour	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: Area: A Area: A Job Condition Correction Experimentation	Bank res Rip De of estimated quantity: ON Seismic Velocity Verage Ripping Depth Verage Ripping Unit Verage Ripping Length Average Dozer Speed Verage Maneuver Time Production per unit area factors Hourly Unit Production	Volume: epth (ft): AM-1 n y: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h:hh: h:hh:hh:h	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855 5,800	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/mi minute acres/h Acres/ feet	cond ss ss ss inute es/pass nour hr	NA	BCY or 0
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: Area: A Area: A Job Condition Correction Experimentation	Bank res Rip De of estimated quantity: ON Seismic Velocity Verage Ripping Depth Verage Ripping Uength Average Ripping Length Average Maneuver Time verage Maneuver Time roduction per unit area factors Hourly Unit Production	Volume: epth (ft): <u>AM-1 n</u> y: y: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h: h:hh: h:hh:h:hh:h:hh:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa	cond ss ss ss inute es/pass nour hr HB)	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: Area: A Area: A Job Condition Correction Experimentation	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Length Average Ripping Length Average Dozer Speed verage Maneuver Time Production per unit area actors Hourly Unit Production Site Altitude Altitude Ad	Volume: epth (ft): AM-1 n y: y: h: h: h: h: h: h: h: e: a: n: y:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855 5,800 1.00	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/mi minute acres/h Acres/ feet	cond ss ss ss inute s/pass iour hr HB) t/day)	NA	BCY or (
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: A Area: A Job Condition Correction F: Unadjusted F Adj	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Length Average Ripping Length Average Dozer Speed verage Maneuver Time roduction per unit area actors Hourly Unit Production Site Altitude Altitude Ad Job Efficiency	Volume: epth (ft): AM-1 n y: y: h: h: h: h: h: h: h: e: a: n: y: n: pduction:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855 5,800 1.00 0.83	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/a feet/pa feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a feet/a fe	cond ss ss ss inute s/pass iour hr HB) t/day)	NA	BCY or C
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: A Area: A Job Condition Correction F: Unadjusted F Adj	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Depth Average Ripping Length Average Dozer Speed verage Maneuver Time Production per unit area actors Hourly Unit Production Site Altitude Altitude Ad Job Efficiency Net Correction justed Hourly Unit Pro	Volume: epth (ft): AM-1 n y: y: h: h: h: h: h: h: h: e: a: n: y: n: pduction:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855 5,800 1.00 0.83 0.83 0.71	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa	cond ss ss ss inute s/pass iour hr HB) t/day)	NA	BCY or C
Alternate Methods: nic: NA ea: 4.00 acr Source of HOURLY PRODUCTION Seismic: A Area: A Job Condition Correction F: Unadjusted H Adj Adj	Bank res Rip De of estimated quantity: ON Seismic Velocity Average Ripping Depth Average Ripping Depth Average Ripping Length Average Dozer Speed verage Maneuver Time Production per unit area actors Hourly Unit Production Site Altitude Altitude Ad Job Efficiency Net Correction justed Hourly Unit Pro	Volume: epth (ft): AM-1 n y: y: h: h: h: h: h: h: h: e: a: n: y: n: pduction:	NA 1.00 maps NA 2.63 7.67 250.00 88.00 0.25 0.855 0.855 5,800 1.00 0.83 0.83 0.71	BCY Volume: feet/set feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet/pa feet feet/pa feet feet/pa feet feet/pa feet feet fullep feet/pa feet fullep feet fullep feet fullep feet fullep feet fullep feet fullep feet fullep feet fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fullep fulle	cond ss ss ss inute s/pass iour hr HB) t/day)		BCY or C

CIDCES Cost Estimating Software

WHEEL LOADER -- LOAD AND CARRY WORK

	Carry topsoil to pad for sp			
: St Jude Mine	Permit Action	n: 2020 Update	Perm	nit/Job#: <u>M1978039H</u>
PROJECT IDENTIFIC	ATION			
Task #: 006	State: Colorado)	Abbreviat	ion: None
Date: 2/25/2020	County: San Mig		Filena	
User: LJW			-	
Agency or organiz	zation name: DRMS			
HOURLY EQUIPMEN				100
	CAT 924H		rsepower:	128
Attachment 1:	ROPS Cab		nift Basis:	1 per day
		Dat	ta Source:	(CRG)
Cost Breakdown:				
		Utilization %		
Ownership Cost/Ho		NA		
Operating Cost/Ho		100		
Operator Cost/Ho		NA		
Total Unit Cost/Ho	our: \$84.65			
Total Fleet Cost/H	our: \$84.65			
		i.		
MATERIAL QUANTII	<u>TIES</u>			
MATERIAL OUANTIT	CCY	Swell factor:	1.000	
MATERIAL QUANTII	<u>TIES</u>	Swell factor:	1.000	
MATERIAL OUANTIT Initial volume: 1,5 Loose volume:	TIES 00 CCY 1,500 LCY			
MATERIAL OUANTIT Initial volume: 1,5 Loose volume: Source of 0	TIES 00 CCY 1,500 LCY	n of Reclamation, Mi		
MATERIAL OUANTIT Initial volume: 1,5 Loose volume: Source of 0	TIES CO0 CCY 1,500 LCY estimated volume: Divisio	n of Reclamation, Mi		
MATERIAL OUANTIT Initial volume: 1,5 Loose volume: Source of Source of estin	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har	n of Reclamation, Mi		
MATERIAL QUANTIT Initial volume: 1,5 Loose volume: Source of Source of estin HOURLY PRODUCTIC	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har	n of Reclamation, Mi		-
MATERIAL OUANTIT Initial volume: 1,5 Loose volume: Source of Source of estin	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON ON	n of Reclamation, Mi	ning & Safety	minutes
MATERIAL OUANTIT Initial volume: 1,5 Loose volume: Source of Source of estin HOURLY PRODUCTIC Loader Cycle Time:	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic	n of Reclamation, Min ndbook	ump, 0.4	+/5
MATERIAL OUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic s	n of Reclamation, Min ndbook c Cycle Time (load, du	ump, 0.4 ver): Factor (mi	n.) Source
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material:	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic s	n of Reclamation, Min ndbook c Cycle Time (load, du maneu	ning & Safety ump, 0.4 ver): 0.4 Factor (mi 0.020	n.) Source (Cat HB)
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors Material: Stockpile:	CIES 00 CCY 1,500 LCY estimated volume: Divisio mated swell factor: Cat Har ON Unadjusted Basic s	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00	ning & Safety ump, 0.4 ver):	n.) Source (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00	ning & Safety ump, 0.4 ver): Factor (mi 0.020 0.000 0.000	n.) Source (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S S Mixed material 0.02 No adjustment - factor no No adjustment - factor no Constant operation -0.04	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00	ning & Safety ump, 0.4 Factor (mi 0.020 0.000 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S Inadjusted Basic No adjustment - factor no No adjustment - factor no Constant operation -0.04 No adjustment - factor no	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00	ning & Safety ump, 0.4 ver): Factor (mi 0.020 0.000 0.000 -0.040 0.000	Source (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S Inadjusted Basic S Inadjusted Control Image: No adjustment - factor no Image: No Image: No Image: No Image:	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00 rcle Time Adjustment	ning & Safety ump, 0.4 ver): 0.4 Factor (mi 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	n.) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S Inadjusted Basic S Inadjusted Control Image: No adjustment - factor no Image: No Image: No Image: No Image:	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00	ning & Safety ump, 0.4 ver): 0.4 Factor (mi 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Source (Cat HB) (Cat HB)
MATERIAL QUANTIT	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S S : Mixed material 0.02 : No adjustment - factor no	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00 rcle Time Adjustment	ning & Safety ump, 0.4 ver): 0.4 Factor (mi 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	n.) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
MATERIAL QUANTIT Initial volume: Loose volume: Source of estin HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S S : Mixed material 0.02 : No adjustment - factor no	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00 rcle Time Adjustment	ning & Safety ump, 0.4 ver): 0.4 Factor (mi 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	n.) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
MATERIAL QUANTIT	CIES 00 CCY 1,500 LCY estimated volume: Divisio nated swell factor: Cat Har ON Unadjusted Basic S S : Mixed material 0.02 : No adjustment - factor no	n of Reclamation, Min ndbook c Cycle Time (load, du maneu ot applicable 0.00 ot applicable 0.00 ot applicable 0.00 rcle Time Adjustment ted Basic Cycle Time	ning & Safety	n.) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	4.00	4.00	0.1269	(Cat HB)

Loader Worksheet Cont'd		Task	# 006		Page 2 of 2
Return Route:	200	0.00	4.00 4	.00 0.1269	(Cat HB)
			Total Travel 1 Total Cycle 1		minutes minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction I Site Altitude: <u>5800</u> feet	: 1.050 : 2.84	LCY (he Moist lo LCY	-	(100% - 110%) 1.050	
		Source	:		
Altitude Adj:	1.00	(CAT H	B)		
Job Efficiency:	0.83	(1 shift/d	ay)		
Net Correction:	0.83	multiplie	r		
Ad	ljusted Hourly Un ljusted Hourly Un justed Hourly Fle	it Production:	199.16	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>T</u>				
Fleet size: 1	Loader	(s)	Total job time:	7.53	Hours
Unit cost: \$0.4	425 /LCY		Total job cost:	\$638	

BULLDOZER WORK

			_	
: St Jude Mine	Permit Action:	2020 Update	Permit/Jo	b#: <u>M1978039HR</u>
PROJECT IDENTIF	ICATION			
Task #: 007	State: Colorado		Abbreviation:	None
Date: 2/25/2020	0 County: San Migue		Filename:	M039-2020
User: LJW				
Agency or orga	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machine: C	at D9T - 9SU			
	05			
Blade Type: S	emi-Universal			
	-shank ripper			
	per day			
Data Source:(CRG)	<u></u>		
Cost Breakdown:				
	1	Utilization %		
Ownership Cost/Hour		NA		
Operating Cost/Hour		100		
Ripper own		NA		
Cost/Hour				
Ripper op. Cost/Hour		0		
Operator Cost/Hour	: \$41.24	NA		
Total unit Cost/Hour	\$282.50			
Total unit Cost/Hour: Total Elect Cost/Hour:	\$282.50 \$287 50			
Total unit Cost/Hour: Total Fleet Cost/Hour:			_	
Total Fleet Cost/Hour:	\$282.50			
	\$282.50			
Total Fleet Cost/Hour: MATERIAL QUAN	\$282.50			
Total Fleet Cost/Hour: <u>MATERIAL OUAN</u> Initial Volume: <u>1,</u>	\$282.50 <u>FITIES</u>			
Total Fleet Cost/Hour: <u>MATERIAL OUAN</u> Initial Volume: <u>1,2</u> Swell factor: <u>1.1</u>	\$282.50 <u>FITIES</u> 500			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: <u>1,2</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u>	\$282.50 FITIES 500 125 588 LCY			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: <u>1,2</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo	\$282.50 FITIES 500 25 588 LCY Jume: Division of Reclamation			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,5</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated sw	\$282.50 <u>FITIES</u> 500 25 588 LCY Jume: Division of Reclamation			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: <u>1,2</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo	\$282.50 FITIES 500 25 588 LCY Jume: Division of Reclamation			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw factor:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatic vell Cat Handbook			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,5</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated sw	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatic vell Cat Handbook			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw factor:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION : 75 feet			
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: <u>1,4</u> Swell factor: <u>1.1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatic Cat Handbook TION : 75 feet 1,514.3 LCY/hr	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: <u>1,4</u> Swell factor: <u>1.1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION : 75 feet	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,5</u> Swell factor: <u>1.1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatine vell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp	on, Mining & Safety	3	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,5</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatic Cat Handbook TION : 75 feet 1,514.3 LCY/hr	on, Mining & Safety	3	
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,5 Swell factor: 1.1 Loose volume: 1,6 Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push gradient:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp 0 %	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,5</u> Swell factor: <u>1,1</u> Loose volume: <u>1,6</u> Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamatine vell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,5 Swell factor: 1.1 Loose volume: 1,6 Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push gradient:	\$282.50 FITIES 500 125 588 LCY Jume: Division of Reclamation Yell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp 0 %	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push gradient: Average site altitude:	\$282.50 FITIES 500 125 588 LCY olume: Division of Reclamation vell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp 0 % 5,800 feet	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,2 Swell factor: 1.1 Loose volume: 1,0 Source of estimated vo Source of estimated vo Source of estimated sw factor: HOURLY PRODUC Average push distance Unadjusted hourly production: Materials consistency of Average push gradient: Average site altitude: Material weight:	\$282.50 FITIES 500 125 588 LCY blume: Division of Reclamatic rell Cat Handbook TION : 75 feet 1,514.3 LCY/hr description: Consolidated stockp 0 % 5,800 feet 2,550 lbs/LCY Earth - Dry packed	on, Mining & Safety		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3930

)

Adjusted unit production:	595.12 LCY/hr
Adjusted fleet production:	595.12 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.475/LCY

Total job time:	2.84 Hours
Total job cost:	\$801

BULLDOZER WORK

Task description:	Grade access roa	ad			
e: St Jude Mine	Pe	mit Action:	2020 Update	Permit/Jo	b#: <u>M1978039HR</u>
PROJECT IDENT	IFICATION				
Task #: 008 Date: 2/25/20 User: LJW	State: 020 County:	Colorado San Miguel		Abbreviation: Filename:	None M039-2020
Agency or o	rganization name:	RMS			<u></u> 2:
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper		2		
Shift Basis:	1 per day				
Data Source:	(CRG)		<u>1</u> 9		
Cost Breakdown:					
		1	Utilization %		
Ownership Cost/Ho		\$121.49	NA		
Operating Cost/Ho		\$105.84	100		
Ripper ov		\$13.94	NA		
Cost/Ho					
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho	ur:	\$41.24	NA		
Total unit Cost/Hour Total Fleet Cost/Hou					
MATERIAL QUA	NTITIES				
Swell factor:	325 1.165				
	379 LCY				
Source of estimated Source of estimated factor:			on, Mining & Safety	<u> </u>	
HOURLY PRODU	CTION				
Average push distan	ce: 50 feet				
Unadjusted hourly production:	2,110.5 LC	Y/hr			
Materials consistenc	y description: <u>Consol</u>	idated stockp	ile 1.0		
Average push gradient:	0 %				
Average site altitude	e: 5,800 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock	- 50% Rock,	50% Earth		
Job Condition Correct	tion Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3455

Adjusted unit production:	729.18 LCY/hr	
Adjusted fleet production:	729.18 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)	and a strength of the
Unit cost:	\$0.387/LCY	

Total job time:	0.52 Hours
Total job cost:	\$147

REVEGETATION WORK

Ta	isk descrip	otion:	Revegetate distu	irbed areas			
Site: _	St Jude N	line	Ре	rmit Action:	2020 Update	Permit/Jol	b#: <u>M1978039HR</u>
<u>PR</u>	<u>OJECT</u>	<u>IDENTIFIC</u>	CATION				
	Task #:	009	State:	Colorado		Abbreviation:	None
	Date:	2/25/2020	County:	San Migue	1	Filename:	M039-2020
	User:	LJW					

FERTILIZING

Materials

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

Application

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

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$101.93
	Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.18
Indian Ricegrass - Native	7.42	24.02	\$48.23
Sand Dropseed	0.14	16.71	\$1.37
Bottlebrush Squirreltail	4.08	17.98	\$66.20
Galleta	4.94	18.03	\$110.41
Muttongrass	0.20	4.13	\$6.88
Sagebrush, Mountain or Big	0.20	10.56	\$3.95
Saltbush, Four Wing	0.50	0.69	\$6.25
Winter Fat	0.50	1.27	\$10.25

Totals Seed Mix	18.94	109.07	\$266.71	

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Herbicide - 2,4D @ 1.0 pt/ac	9.00	ACRE	\$2.74	\$24.66
Total Mulch Materials Cost/Acre				\$614.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$141.67

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	<u></u>	Tot	als Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	9	Cost /Acre:	\$1,392.19
Estimated Failure Rate:	30%	Cost /Acre*:	\$1,392.19
*Selected Replanting Work Items:	TILLING, SEEDIN	G,MULCHING	

Initial Job Cost:	\$12,529.71
Reseeding Job Cost:	\$3,758.91
Total Job Cost:	\$16,289
Job Hours:	24.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Ha	ul reclamation eq	uipment to and	l from site			
St Jude Mine		Permit	Action: 2020	Update	8 1	Permit/Job#:M	1978039HR
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 010		State: Co	lorado		Abbre	viation: None	
Date: 2/25 User: LJW	/2020	County: Sa	n Miguel		_ Fi	lename: M039	-2020
Agency or	organizatior	n name: DRMS					
COUIPMENT T	RANSPOR	<u>T RIG COST</u>					
					Shift ba		
				C	ost Data Sour	rce: CRG Da	ta
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTO	DR, 6X4, DIESEL	POWERED.
					(2ND HALF,		, o Bit20,
Truck	Trailer Desc	ription: G	ENERIC FOLD			OP DECK EQU	IPMENT
		1			25T, 50T, AN		
						· · · ·	
Cost Breakdown:							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership	Cost/Hour:	\$17.20	\$29.63	\$3	8.69		
Operating	Cost/Hour:	\$26.56	\$47.02	\$5	5.69		
Operator	Cost/Hour:	\$23.63	\$23.63	\$2	3.63		
Helper	Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total Unit	Cost/Hour:	\$67.39	\$123.81	\$14	11.54		
ON ROADABL	<u>.e equipi</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 D9T - 9SU	66.13	\$135.43	\$141.54	1	\$276.97	\$141.54	\$250.00
CAT 924H	12.69	\$20.17	\$67.39	i	\$87.56	\$67.39	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	1	\$85.54	\$67.39	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$9.74	\$67.39	1	\$77.13	\$67.39	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$46.78	\$123.81	1	\$170.59	\$123.81	\$250.00
				Subtotals:	\$697.79	\$467.52	\$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.96	1	\$12.96	\$12.96
		Subtotals:	\$12.96	\$12.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	40.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$9,017.36	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$25.92	

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):	1.50	NA
Unloading Time (Hours):	1.50	NA
Subtotals:	5.00	2.00

JOB TIME AND COST

Total job time: 10.00 Hours

Total job cost: ______\$9,043_____