

COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

September 22, 2021

Brian Briggs Ouray Silver Mines, Inc. P.O. Box 564 1900 Main Street, Suite 1 Ouray, CO 81427

RE: Revenue Mine, Permit No. M-2012-032, Technical Revision (TR-16) Approval

Dear Mr. Briggs:

On September 22, 2021 the Division of Reclamation, Mining, and Safety (Division) <u>approved</u> the Technical Revision request (TR-16) submitted on July 26, 2021, addressing the following:

Addition of surface facilities including:

- 1. Two equipment storage warehouses
- 2. Security Shack
- 3. Two temporary lineout buildings
- 4. Vehicle wash-down area
- 5. Two temporary Gen Sets

The terms of the TR-4 approved by the Division are hereby incorporated into Permit No. M-1977-098. All other conditions and requirements of the permit remain in full force and effect.

The estimated liability amount of \$517,219.00 exceeds the \$476,269.41 Financial Warranty currently held for this site. If you have not already done so, please submit additional bond in the amount of \$40949.59. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted. The revision will not be final until the bond is approved by the Division.

Pursuant to Hard Rock and Metals Mining Rule 4.2.1(2) The Operator has 60 days from the date of this notice to submit the required Financial Warranty. The additional amount or replacement warranty for a total Financial Warranty of \$517,219.00 must be received no later than <u>Monday November 22, 2021</u>. Please note that no facilities approved under this Technical Revision may be installed until the Financial Warranty is received and accepted.

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. Direct contact can be made by phone at 303-866-3567 Ext 8187 or via email at lucas.west@state.co.us.



Brian Briggs Page 2 of 2 September 22, 2021

Sincerely,

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Lucas West Environmental Protection Specialist

- Cc: Travis Marshall, Senior EPS, Grand Junction DRMS Amy Yeldell, Environmental Protection Specialist
- Ec: Todd Jesse, OSMI Inc. Michelle Robbins, OSMI Inc.

COST SUMMARY WORK

Task description:		TR-16 Update o	f Buildings (Cost				
Site:	Revenue	Mine	Per	mit Action:	TR-16	Permit/Job	#: <u>M2012032</u>	
<u>P</u>]		IDENTIFIC ACY 9/2/2021 ACY	CATION State: County:	Colorado Ouray		Abbreviation: Filename:	None M32-000	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
Site Clo	ean-up				
01a	Removal of Permanent Structures and Surface Debris	DEMOLISH	1	180.00	\$98,565
01b	Disposal of Chemicals-Per TR-14	DEMOLISH	1	16.00	\$4,928
Portal	Closure				
02a	Contour portal backfill areas	DOZER	1	21.99	\$6,790
02b	Reinforce gate at Revenue Portal	MINESEAL	1	40.00	\$3,000
Vent Sl	hafts		_		-
03a	Shaft foundation and structure removal	DEMOLISH	1	80.00	\$32,054
03b	Vent Shaft Closure-Cut Casing	BOREHOLE	1	10.00	\$204
03c	Vent Shaft Closure-Place Seal	MINESEAL	1	72.00	\$5,365
03d	Vent Shaft Closure- Excavate & Bury	EXCAVATE	1	2.47	\$482
Gradin	g				
04a	Minor site grading	DOZER	1	8.31	\$2,565
Topsoil	l/Caprock				
05a	Import Topsoil-Purchase and Delivery	NA	1	250.00	\$176,000
05b	Spread Topsoil on TSF	DOZER	1	7.33	\$2,262
05c	Transport caprock for Atlas TSF	TRUCK1	1	17.02	\$8,715
05d	Spread Caprock on TSF	DOZER	1	28.16	\$8,694
Revege	tation				
06a	Reveg TSF	REVEGE	1	30.00	\$7,245
06b	Reveg Vent Shafts	REVEGE	1	10.00	\$4,394
Equipn	nent Mobilization		-		*
07a	Initial Mobilization	MOBILIZE	1	11.14	\$16,140
07b	Walk equipment to Governors Basin	MOBILIZE	1	18.66	\$4,469
07c	Secondary Mobilization	MOBILIZE	1	7.14	\$1,708
		<u>SUBTO</u>	DTALS:	810.22	\$383,580

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$7,748
Performance bond:	1.05		Total =	\$4,028
Job superintendent:	405.11		Total =	\$29,180
Profit:	10.00		Total =	\$38,358
			TOTAL O & P =	\$79,314
	CONT	RACT AMOUN	T (direct + O & P) =	\$462,894
LEGAL - ENGINEERING - PRO	DJECT MANAGEMENT	:		
Financial warranty process	ing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or c	ontract/bid preparation:	4.25	Total =	\$19,673
Reclamation management	t and/or administration:	5.00		\$23,145
	CONTINGENCY:	3.00	Total =	\$11,507
		TOTAL	INDIRECT COST =	\$133,639

TOTAL BOND AMOUNT (direct + indirect) = ____\$517,219

DEMOLITION WORK

	Task description:	Removal of	Permanent Str	ictures and S	urface Debris	
Site:	Revenue Mine		Permit Action:	TR-16	Permit/J	lob#: <u>M2012032</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>1</u>				
Task #	: 01A	State:	Colorado		Abbreviation:	None
Date	: 9/2/2021 9:54:42	County:	Ouray		Filename:	M032-01a
	AM					
User	ACY					

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 87.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Remove Diesel Storage Tank	10,000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	2.00	EA	\$760.00	\$1,520.00
Diesel Filling Station	TR-11 PAR Pg. 25	USER PROVIDED ITEM	1.00	EA	\$500.00	\$500.00
Administration Bldg- Internal Contents Only	TR-11 Table L- 2	USER PROVIDED ITEM	1.00	EA	\$3,600.00	\$3,600.00
Air Compressor Bldg-Internal Contents Only	TR-11 Table L- 2	USER PROVIDED ITEM	1.00	EA	\$2,000.00	\$2,000.00
Propane Storage Bldg A	TR-1 PAR pg. 25	USER PROVIDED ITEM	1.00	EA	\$750.00	\$750.00
Propane Storage Bldg C	TR-11 PAR pg. 25	USER PROVIDED ITEM	1.00	EA	\$750.00	\$750.00
Vent Fan	TR-11 PAR pg. 25	USER PROVIDED ITEM	1.00	EA	\$500.00	\$500.00
Rail Yard Track & Ties	TR-11 PAR pg.25	Railroad track - Ties and track	400.00	LF	\$9.98	\$3,992.00
Rail Yard & Battery Charging Bldg- Contents Only	TR-13	USER PROVIDED ITEM	1.00	EA	\$2,000.00	\$2,000.00
Underground Warehouse and Shop	TR-11 PAR pg.25	USER PROVIDED ITEM	1.00	EA	\$500.00	\$500.00
Concentrator & Filter Bldg- Internal Contents Only	DRMS	USER PROVIDED ITEM	1.00	EA	\$16,000.00	\$16,000.00
Waste Storage Pad & Secondary Containment	TR-11 PAR pg.25	USER PROVIDED ITEM	1.00	EA	\$4,000.00	\$4,000.00
Tailings Thickener - Tank Cut Up	TR-11 PAR pg.25	USER PROVIDED ITEM	1.00	EA	\$5,000.00	\$5,000.00
Tailings Thickener- Cement Pad and Piping	TR-11 PAR pg. 25	USER PROVIDED ITEM	1.00	EA	\$23,011.20	\$23,011.20
Crusher & Retaining Wall	TR-11 PAR pg. 25	USER PROVIDED ITEM	1.00	EA	\$4,000.00	\$4,000.00
Portal Cover Structure	TR-11 PAR pg.25	USER PROVIDED ITEM	1.00	EA	\$4,080.00	\$4,080.00
Half-Culvert	TR-11 PAR Table L-1	USER PROVIDED ITEM	1.00	EA	\$7,840.00	\$7,840.00
Water Tanks	TR-11 PAR pg.25	USER PROVIDED ITEM	4.00	EA	\$150.00	\$600.00

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Misc Debris-Disposal	TR-11 PAR	Dump fees - Building	150.00	CY	\$11.10	\$1,665.00
Misc Debris- Transport	pg.25 TR-11 PAR pg. 25	construction materials. Hauling only, per mile, 12-18 CY truck - 30	390.00	MI	\$7.61	\$2,967.90
2x Equipment Storage Shed- Building Demo	TR-16	mph average speed Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	114,000.00	CF	\$0.20	\$22,914.00
2x Equipment Storage Shed-Footers	TR-16	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft Max. 200 ft. push	68.00	LF	\$6.05	\$411.40
Security Building- Load and transport	TR-16	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	53.00	MI	\$7.61	\$403.33
Equipment Wash Area-Slab	TR-16	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 200 ft. push	490.00	SF	\$1.01	\$493.92
Equipment Wash Area-curbing	TR-16	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 50 ft. push	120.00	LF	\$3.90	\$468.00
Remove Diesel Storage Tank- Generator	TR-16	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Materials Storage Connex	TR-11 PAR pg. 25	USER PROVIDED ITEM	3.00	EA	\$500.00	\$1,500.00

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	180.00	(unadjusted):	\$112,516.75	location):	\$98,564.67

DEMOLITION WORK

	Task description:	Disposal of	Chemicals-Per	TR-14		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/J	ob#: <u>M2012032</u>
PROJE	CT IDENTIFICATION	N				
Task #	: 01B	State:	Colorado		Abbreviation:	None
Date		County:	Ouray		Filename:	M032-01b
	AM					
User	: ACY					

Agency or organization name: _____DRMS_____

UNIT COSTS

Location adjustment: 87.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Lime	2x 1800 lb Super Sacks	Dump fees - Reclamation station, usual charge	2.00	СҮ	\$11.10	\$22.20
Xanthate (Nax, Flottec SIPX Collector)	4x 50 lb bags	Hazardous waste removal - Bulk solids, small quantities (up to 1.5 tons)	0.10	TON	\$2,608.20	\$260.82
MIBC (OrePrep F- 549, Polyfroth W20)	2x 55 gal drum	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$680.65	\$1,361.30
Aerophine 3418A	1x 55 gal drum	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	1.00	DRUM	\$680.65	\$680.65
Sodium Metabisulfate	10x 50 lb bags	Hazardous waste removal - Bulk solids, small quantities (up to 1.5 tons)	0.25	TON	\$2,608.20	\$652.05
Copper Sulfate	10x 50 lb bags	Hazardous waste removal - Bulk solids, small quantities (up to 1.5 tons)	0.25	TON	\$2,608.20	\$652.05
AeroFloat 242 (DanaFloat 067)	1x 55 gal drum	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	1.00	DRUM	\$680.65	\$680.65
Zinc Sulfate	10x 50 lb bags	Hazardous waste removal - Bulk solids, small quantities (up to 1.5 tons)	0.25	TON	\$2,608.20	\$652.05
Hyperfloc AF-309	4x 50lb bags	Hazardous waste removal - Bulk solids, small quantities (up to 1.5 tons)	0.10	TON	\$2,608.20	\$260.82
Transportation-Lime	2 CY	Hauling only, per mile, 12-18 CY truck - 30 mph average speed	53.00	MI	\$7.61	\$403.33
Job Hours:	16.00	Subtotal (unadjusted):	\$5,625.92		Total Cost ljusted for location):	\$4,928.31

BULLDOZER WORK

Task description:	Contour portal l	oackfill areas	l .		
Revenue Mine	Per	mit Action:	TR-16	Permit/Job#:	M2012032
PROJECT IDENTI	FICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: 9/2/2021	County:	Ouray		Filename:	M032-02a
10:00:51	AM				
User: ACY					
Agency or orga	anization name: DI	RMS			
HOURLY EQUIPM	<u>ENT COST</u>				
Basic Machine: Ca	at D9T - 9SU				
Horsepower: 40)5				
	emi-Universal				
Attachment: N.					
	per day				
Data Source: (C	CRG)		_		
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$126.01	NA		
Operating Cost/Hour:		\$141.41	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$308.72				
Total Fleet Cost/Hour:	\$308.72				
MATERIAL QUAN	TITIES				
Initial Volume: <u>3,3</u> Swell factor: <u>1.1</u>					
	77 LCY				
Source of estimated volu					
Source of estimated swe	ell factor: Cat Hand	lbook			
HOURLY PRODUC	<u>CTION</u>				
Average push distance:	235 feet				
Unadjusted hourly produ	uction: 588.4 LCY	/hr			
Materials consistency de	escription: Rock,	well ripped or	blasted 0.8		
· · ··					
Average push gradient:	5 % 10,650 feet				
Average site altitude:	10,030 leet				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Decomposed rock	- 50% Rock,	50% Earth		
a eight desemption			Source		
	n Factor		JOHICE		
Job Condition Correctio		.900			
	r Skill: 0	.900 .800	(AB.AVG.) (CAT HB)		

Job efficiency: Spoil pile:	0.830	(1 SHIFT/DAY) (FND-MF)
· · · _	0.700	(FND-MF)
Duch gradiants		
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	176.28 LCY/hr
Adjusted fleet production:	176.28 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.751/LCY

Total job time:	21.99 Hours
Total job cost:	\$6,790

SAFEGUARDING UNDERGROUND OPENINGS

Т	ask description:	Reinforce ga	te at Revenue	Portal		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>
<u>PROJEC</u>	CT IDENTIFICATIO	<u>DN</u>				
Task #:	02B	State:	Colorado		Abbreviation:	None
Date:	9/2/2021 10:01:52 AM	County:	Ouray		Filename:	M032-02b
	ACY				_	

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Revenue Gate	TR-11 PAR Table L-1	USER PROVIDED ITEM	1.00	EA	\$3,000.00	\$3,000.00

Job Hours: 40.00

Total Cost: \$3,000.00

DEMOLITION WORK

	Task description:	Shaft found	ation and struc	ture removal			
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>	
<u>PROJE</u>	CT IDENTIFICATIO	<u>N</u>					
Task #:	03A	State:	Colorado		Abbreviation:	None	
Date:	9/2/2021 10:49:43	County:	Ouray		Filename:	M032-03a	
	AM						_
User:	ACY						

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 87.60 %

Structure or Item		Demolition Menu				
Description	Dimensions	Selection	Quantity	Unit	Unit Cost	Total Cost
960 Raise Shaft-	TR-11 PAR	USER PROVIDED	1.00	EA	\$14,333.33	\$14,333.33
Superstructure &	Demo	ITEM				
foundation						
Yellow Rose Shaft-	TR-11 PAR	USER PROVIDED	1.00	EA	\$14,333.33	\$14,333.33
Superstructure &	Demo	ITEM				
foundation						
Monongahela	TR-11 PAR	Demo. and on-site	144.00	SF	\$1.95	\$280.94
Shaft/Hoist		disposal in existing pit,				
Foundation		12 in. thick - Max. 50				
		ft. push				
Monongahela	TR-11 PAR	Plant (1S) demo./on-site	2,304.00	CF	\$0.29	\$677.38
Shaft/Hoist-		disposal in existing pit				
Superstructure		or cut - Max. 50 ft. push				
Monongahela- Lift	TR-11 PAR	Plant (1S) demo./on-site	4,000.00	CF	\$0.31	\$1,224.00
house		disposal in existing pit				
		or cut - Max. 200 ft.				
		push				
Monongahela-	DRMS	Demo. only, small or	8,000.00	CF	\$0.18	\$1,432.00
Refuge Chamber		single buildings (single				
		story) - Steel structures	100.00		* 19 10	* * * * * * * *
Monongahela- CMP	DRMS	Pipe, corrugated metal	100.00	LF	\$43.10	\$4,310.10
Walkway		(CMP) - 96 in. diameter				
		pipe				

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$36,591.08	location):	\$32,053.79

BOREHOLE SEALING WORK

Т	ask description:	Vent Shaft Closure-Cut	Casing		
Site:	Revenue Mine	Permit Actio	on: TR-16	Permit/.	lob#: M2012032
<u>'ROJEC</u>	T IDENTIFICATIO	<u>DN</u>			
Task #:	03B	State: Colorado		Abbreviation:	None
Date:	9/2/2021 10:52:26	County: Ouray		Filename:	M032-03b
	AM				
	ACY				

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
960 Raise- Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	72	18.8	18.80	LF	\$3.26	\$61.29
Yellow Rose Shaft- Cut casing	Exposed casing removal - Calculate Circumference in Linear Feet	72	18.8	18.80	LF	\$3.26	\$61.29
Monogahela Shaft (escape)- Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	96	25.1	25.10	LF	\$3.26	\$81.83

Job Hours: 10.00

Total Cost: \$204.00

SAFEGUARDING UNDERGROUND OPENINGS

Та	ask description:	Vent Shaft	Closure-Place S	eal		
Site: _]	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>
PROJEC	T IDENTIFICATIO	<u>N</u>				
Task #:	03C	State:	Colorado		Abbreviation:	None
Date:	9/2/2021 10:53:34 AM	County:	Ouray		Filename:	M032-03c
User:	ACY				_	

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
960 Raise- Plate	6' x 6'	Shaft closure - grate (per sq. ft.)	36.00	SF	\$32.50	\$1,170.00
Yellow Rose Shaft- Plate	6' x 6'	Shaft closure - grate (per sq. ft.)	36.00	SF	\$32.50	\$1,170.00
Monongahela Shaft (escape)- Plate	8' x 8'	Shaft closure - grate (per sq. ft.)	64.00	SF	\$32.50	\$2,080.00
960 Raise- Cement Cap	6' x 6' x 6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	18.00	CF	\$13.89	\$250.02
Yellow Rose Shaft- Cement Cap	6' x 6' x 6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	18.00	CF	\$13.89	\$250.02
Monongahela Shaft (escape)- Cement Cap	8' x 8' x 6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	32.00	CF	\$13.89	\$444.48

Job Hours: 72.00

Total Cost: \$5,364.52

HYDRAULIC EXCAVATOR WORK

	vent Sh		re- Excavat	e & Duly			
Revenue Mine		Pern	nit Action:	TR-16	Per	mit/Job#:	M2012032
PROJECT IDENTI	FICATION	<u>1</u>					
Task #: 03D Date: 9/2/2021 10:58:03 ACY		State: County:	Colorado Ouray			eviation: lename:	None M032-03d
Agency or org	ganization nai	me: DR	MS				
HOURLY EQUIPM	<u>1ENT COS'</u>	<u>T</u>					
Basic Machine: Attachment 1:			Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	2 1 p	268 29.30 per day CRG)
Cost Breakdown:							
Ownership Cos		\$83.4		Utilization % NA 100	_		
Operating Cos Operator Cos		\$74.1 \$37.3		NA			
Total Unit Cos	st/Hour:	\$194.8	38				
Total Fleet Co	st/Hour:	\$194.	88				
Loose volume	/60			Swell facto			
Source of		ell factor:	LCY DRMS Cat Hand	book			
Sourc Source of	e of estimated estimated swe CTION (load bucket,	ell factor:	DRMS Cat Hand	book	ion: BELOW		GE
Source Source of HOURLY PRODUCE Excavator Cycle Time	e of estimated estimated swe CTION (load bucket,	ell factor:	DRMS Cat Hand	book ucket, swing emp ondition Descript	ion: BELOW		GE minutes
Source of HOURLY PRODU	e of estimated estimated swe CTION (load bucket,	ell factor:	DRMS Cat Hand	book bucket, swing emp ondition Descripti in Basic Descripti	ion: BELOW ion: SEVERE lue: 0.390		
Source Source of HOURLY PRODUCE Excavator Cycle Time	e of estimated estimated swe CTION (load bucket, Seconda ity: <u>1</u> tor: <u>1</u>	ell factor:	DRMS Cat Hand ded, dump b Basic Job C ndition with	book bucket, swing emp ondition Descripti in Basic Descripti Cycle Time Va	ion: <u>BELOW</u> ion: <u>SEVERE</u> lue: <u>0.390</u> Bucket Size Cl		minutes
Source Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fact	e of estimated estimated swe CTION (load bucket, Seconda ity: 1 tor: 1 ity: 1	ell factor: swing load ary Job Con 1.56 .025	 Cat Hand ded, dump b Basic Job C ndition with LCY (hea Rock - E	book ucket, swing emp ondition Descripti in Basic Descripti Cycle Time Va aped) arth Mixture (100	ion: <u>BELOW</u> ion: <u>SEVERE</u> lue: <u>0.390</u> Bucket Size Cl	ass: <u>Sr</u>	minutes
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Source of HOURLY PRODUCE Excavator Cycle Time Load Bucket Capacity Rated Capac Bucket Fill Fact Adjusted Capac Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction: U JOB TIME AND CO	e of estimated estimated swe CTION (load bucket, Seconda ity:1 tor:1 ity:1 on Factors 0.93 0.83 0.77 Unadjusted Ho Adjusted Hou	ell factor: swing load ary Job Con 1.56 .025 1.60 burly Unit I purly Unit I	 	book bucket, swing emp ondition Descripti in Basic Descripti Cycle Time Va aped) arth Mixture (100 Site 3) <u>246.00</u> 189.89	ion: <u>BELOW</u> ion: <u>SEVERE</u> lue: <u>0.390</u> Bucket Size Cl <u>%-105%) 1.025</u> Altitude: <u>10650</u> LCY/Hour LCY/Hour	ass: <u>Sr</u>	minutes
	e of estimated estimated swe CTION (load bucket, Seconda ity:1 tor:1 ity:1 on Factors 0.93 0.83 0.77 Unadjusted Ho Adjusted Hou	ell factor: swing load ary Job Con 1.56 .025 1.60 burly Unit I purly Unit I	 	book bucket, swing emp ondition Descripti in Basic Descripti Cycle Time Va aped) arth Mixture (100 Site 3) <u>246.00</u> 189.89	ion: <u>BELOW</u> ion: <u>SEVERE</u> lue: <u>0.390</u> Bucket Size Cl <u>%-105%) 1.025</u> Altitude: <u>10650</u> LCY/Hour LCY/Hour	ass: <u>Sr</u>	minutes

Page 1 of 2

BULLDOZER WORK

Task description:	Mino	r site gradi	ng				
: Revenue Mine		Per	mit Action:	TR-16		Permit/Job#:	M2012032
PROJECT IDEN	TIFICATIO	<u>)N</u>					
Task #: 04A Date: 9/2/20	021	State:	Colorado			Abbreviation: Filename:	None M032-04a
	::10 AM	County:	Ouray			Filename:	M032-04a
	organization	name: DF	RMS				
HOURLY EQUI	-						
Basic Machine:	Cat D9T - 9						
Horsepower:	405						
Blade Type:	Semi-Unive	rsal					
Attachment:	NA						
Shift Basis:	1 per day						
Data Source:	(CRG)						
Cost Breakdown:				Litilizat	tion 0/		
Ownership Cost/H	lour		\$126.01	<u>Utilizat</u> N			
Ownership Cost/H Operating Cost/H			\$120.01	10			
Ripper own. Cost/H			\$0.00	N			
Ripper op. Cost/H			\$0.00	0			
Operator Cost/H			\$41.30	N			
Total Fleet Cost/Ho MATERIAL QU							
Initial Volume:	3,045						
Swell factor: Loose volume:	1.165 3,547 LCY						
Source of estimated	volume:	TR-13					
Source of estimated	swell factor:	Cat Hand	book				
HOURLY PROI	DUCTION						
Average push distar Unadjusted hourly p		90 feet 1,351.7 LC	Y/hr				
Materials consistent	cy description:	Rock, v	well ripped o	r blasted 0.8			
Average push gradi Average site altitud) feet					
Material weight:	2,900	lbs/LCY				_	
	· · · ·						
Weight description:		nposed rock	- 50% Rock	, 50% Earth			
Weight description: Job Condition Corre	Decon	nposed rock	- 50% Rock		Source		
Job Condition Corre Ope	Decon ection Factor prator Skill:	0.	750		AVG.)		
Job Condition Corre Ope Material co	Decon	0.		(C			

Visibility:	1.000	(AVG.)
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: 0.3159

Adjusted unit production:	427.00 LCY/hr
Adjusted fleet production:	427 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.723/LCY

Total job time:	8.31 Hours
Total job cost:	\$2,565

Page 1 of 2

BULLDOZER WORK

Task description:	Spread	d Topsoil a	on TSF				
: Revenue Mine		Per	mit Action:	TR-16		Permit/Job#:	M2012032
PROJECT IDEN	TIFICATIO	N					
Task #: 05B		State:	Colorado			Abbreviation:	None
Date: $9/2/20$	021	County:	Ouray			Filename:	M032-05b
	:53 AM						
User: ACY						-	
Agency or	organization na	ame: DF	RMS				
HOURLY EQUI	PMENT COS	<u>ST</u>					
Basic Machine:	Cat D9T - 9S	U					
Horsepower:	405						
Blade Type:	Semi-Univer	sal					
Attachment:	NA						
Shift Basis:	1 per day						
Data Source:	(CRG)						
Cost Breakdown:							
				<u>L</u>	<u>Itilization %</u>		
Ownership Cost/H			\$126.01		NA		
Operating Cost/H			\$141.41		100		
Ripper own. Cost/H			\$0.00		NA		
Ripper op. Cost/H			\$0.00 \$41.30		0		
Operator Cost/H	our:		\$41.50		NA		
Total unit Cost/Hou	r: \$308.72	2					
Total Fleet Cost/Ho	ur: \$308.72	2					
MATERIAL QU	ANTITIES						
Initial Volume:	4,001						
Loose volume:	4,501 LCY						
=							
Source of estimated		TR-11 PA					
Source of estimated	swell factor:	Cat Hand	book				
HOURLY PROL	DUCTION						
Average push distar	nce: 1	00 feet					
Unadjusted hourly p		,243.2 LC	Y/hr				
Materials consistent	ev description:	Partly o	consolidated	stocknile	11		
	, accomption.	<u> </u>	onsonauou	stockpile			
Average push gradi							
Average site altitud	e: 10,650	feet					
Material weight:	2,550 11	os/LCY					
Weight description:	Earth -	Dry packed	1				
		Dry packed	1		Source		
Job Condition Corre			1 750		Source (AVG.)		
Job Condition Corre	ection Factor rator Skill:	0.					

Visibility:1.000(AVG.)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:0.902(CAT HB)Blade type:1.000(PAT)
Spoil pile:0.800(FND-RF)Push gradient:1.000(CAT HB)Altitude:1.000(CAT HB)Material Weight:0.902(CAT HB)Blade type:1.000(PAT)
Push gradient:1.000(CAT HB)Altitude:1.000(CAT HB)Material Weight:0.902(CAT HB)Blade type:1.000(PAT)
Altitude:1.000(CAT HB)Material Weight:0.902(CAT HB)Blade type:1.000(PAT)
Material Weight:0.902(CAT HB)Blade type:1.000(PAT)
Blade type: 1.000 (PAT)
Net correction: 0.4941

Aujusted unit production.	014.27 LC 1/11
Adjusted fleet production:	614.27 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.503/LCY

Total job time:	7.33 Hours
Total job cost:	\$2,262

TRUCK/LOADER TEAM WORK

Site: Revenue Mine Permit Action: TR-16 Permit/Job#: M201 PROJECT IDENTIFICATION </th <th>12032</th>	12032
PROJECT IDENTIFICATION	
Task #: 05C State: Colorado Abbreviation: None	
Date:9/2/2021County:OurayFilename:M032-User:ACY	-05c
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST Shift basis: <u>1 per day</u>	
Equipment Description	
Truck Loader Team -Truck: Generic 15-18 cy, 6x4 -Loader: CAT 966H	
Support Equipment -Load Area: NA	
-Dump Area: NA	
Road Maintenance – Motor Grader: NA -Water Truck: NA	
-water fluck. IVA	
Cost Breakdown:Truck/Loader TeamSupport EquipmentMaintenance	
Truck Loader Load Area Dump Area Motor Grader V	Water Truck
%Utilization-machine: 100 100 NA NA NA	NA
Ownership cost/hour:\$33.16\$59.72NANA	NA
Operating cost/hour:\$53.10\$55.20NANA	NA
%Utilization-riper: NA 0 NA NA NA	NA
Ripper own. cost/hour: NA \$0.00 NA NA	NA
Ripper op. cost/hour: NA \$0.00 NA NA	NA
Operator cost/hour: \$32.54 \$40.71 NA NA NA Unit Subtotals: \$118.80 \$155.63 NA NA NA	NA
Unit Subtotals: \$118.80 \$155.63 NA NA Number of Units: 3 1 0 0 0	<u>NA</u>
	\$0.00
	0.00
Total work team cost/hour: <u>\$512.03</u>	
MATERIAL QUANTITIES	
Initial volume: 6,389 CCY Swell factor: 1.000	
Loose volume: 6,389 LCY	
Source of estimated volume: 3.96 ac @ 1 ft thick	
Source of estimated swell factor: Cat Handbook	
Material Purchase Cost: \$0.00 Total Cost: \$0.00	
Total Cost: \$0.00	
HOURLY PRODUCTION	
Truck Capacity:	
Truck Payload (weight) Basis:Material weight:2,950Pounds/LCY	
Description: Traprock - broken	
Rated Payload: 63,980 Pounds	
Payload Capacity: 21.69 LCY	

Struck Volume:	15.00	LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:		LCY				
Augusted Volume.	10.00					
Final	Truck Volume	Based on Number of	of Loader Passes:	16.50	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: N	IA	
Rated Capacity:	5.000	LCY (heaped)				
Bucket Fill Factor:	0.825	Blasted rock -	avg. blasted (75	- 90%) 0.825		_
Adjusted Capacity:	4.125	LCY		· · · · · ·		_
Job Condition Corrections:	<u>:</u>	S	Site Altitude (ft.):	<u>10650</u> feet		
	Truck	Loader	Source			
Altitude Adj:	0.890	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE			
Net Correction:	0.739	0.830				
	I					
Loading Tool Cycle Time:	Number	r of Loading Tool Pa	asses Required to	Fill Truck:	4	passes
Excavators and Front Shovel	ls:					
		n Rating: NA				
Excavators and Front Shovel Machine Cycle Time vs Selected Value v	s. Job Conditio					
Machine Cycle Time vs	s. Job Condition within this Basi	c Rating: NA				
Machine Cycle Time vs Selected Value v	s. Job Conditio within this Basi Material Descr	c Rating: NA				
Machine Cycle Time vs Selected Value v Track Loaders –	s. Job Conditio within this Basi Material Descr	c Rating: NA		 Dump: 0.100)	
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditio within this Basi Material Descr 	ic Rating: NA iption: faneuver: NA		1		
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Conditio within this Basi Material Descr 	ic Rating: NA iption: faneuver: NA	ime (load, dump, r	naneuver):0	0.500 min	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Conditio within this Basi Material Descr 	ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti		naneuver): 0 Factor (min.)	0.500 min Source	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	s. Job Conditio within this Basi Material Descr 	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00)	naneuver):0 Factor (min.) 0.000	0.500 min Source (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4" Conveyor or	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig) gh and up 0.00	maneuver): 0 Factor (min.) 0.000 0.000	0.500 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own	ic Rating: NA iption: faneuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and) gh and up 0.00	maneuver): 0 Factor (min.) 0.000 0.000 -0.040	0.500 min Source (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own Constant ope	ic Rating: NA iption: faneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04) gh and up 0.00	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own	ic Rating: NA iption: faneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00	gh and up 0.00 d loaders -0.04	maneuver):0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own Constant ope	ic Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 jet 0.00 Net Cycle Tin	gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own Constant ope	a Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own Constant ope	a Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Condition within this Basi Material Descr Material Descr Material 3/4" Conveyor or Common own Constant ope	a Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr 	a Rating: NA iption: Maneuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition within this Basi Material Descr Material Descr Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	a Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load Net Load T	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.420 1.360	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.562	utes — — — — — — — — — — — — —
Machine Cycle Time vs Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	ic Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 yet 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude: for site altitude:	0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.562 1.360 1.011	 Minute:

Haul Rou	1							
Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	3500.0	0	2.00	4.00	6.00	1477	2.417	
					Haul Time:	2.417	minutes	
Return Ro	oute:				_			
Seg #	Haul D	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	3500.0	0	-2.00	4.00	2.00	2960	1.217	
				Total Tru	Return Time: ck Cycle Time:	<u> </u>	minutes	
				Total IIu	ck Cycle Tille.	0.507	minutes	
	uction	515.14	LCY/Hour		Adjusted for j	ob efficiency:	427.57	_ LCY/Hour
Truck Unit Produ	uction _	150.75	LCY/Hour		Adjusted for j	ob efficiency:	125.12	LCY/Hour
Optimal No. of Tr	rucks:	3	Truck(s)		Selected Num	per of Trucks:	3	Truck(s)
				le truck/loade	k team productio er team productio er team productio	on: 375.	.37 LCY/I	Hour
JOB TI	ME AN	D COST						
Fleet	size:	1	Team(s)	r	Fotal job time:	17.02	2 Hou	rs
Unit	cost:	\$1.364	/LCY		Total job cost:	\$8,71	5	

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BULLDOZER WORK

Task description:	Sprea	d Caprock	on TSF			
Revenue Mine		Perr	nit Action:	TR-16	Permit/Job#:	M2012032
PROJECT IDE	NTIFICATIO	N				
Task #: 05D Date: 9/2/2 11:43	021 3:46 AM	State: County:	Colorado Ouray		Abbreviation: Filename:	None M032-05d
User: ACY						
Agency of	r organization n	ame: DR	MS			
HOURLY EQU	IPMENT CO	<u>ST</u>				
Basic Machine:	Cat D9T - 98	U				
Horsepower:	405					
Blade Type: Attachment:	Semi-Univer NA	sai				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
<u>cost Breakdown</u> .				Utilization %		
Ownership Cost/H	Hour:		\$126.01	NA		
Operating Cost/H			\$141.41	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H			\$41.30	NA		
Total Fleet Cost/Ho	<u>.</u>	<u> </u>				
Initial Volume:	8.002					
Initial Volume: Swell factor: Loose volume:	8,002 1.215 9,722 LCY					
Swell factor:	1.215 9,722 LCY l volume:	TR-11 PA Cat Hand				
Swell factor: Loose volume: Source of estimated	1.215 9,722 LCY I volume: I swell factor:					
Swell factor: Loose volume: Source of estimated Source of estimated	1.215 9,722 LCY 1 volume: 1 swell factor: DUCTION nce:		book			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production:	Cat Hand	book Y/hr	r blasted 0.8		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production: cy description: icent: 0 %	Cat Hand 00 feet 2,243.2 LC Rock, v	book Y/hr	 r blasted 0.8		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push gradi	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production:	Cat Hand 00 feet 2,243.2 LC Rock, v	book Y/hr	 r blasted 0.8		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud	1.215 9,722 LCY I volume: I swell factor: 1 swell factor: DUCTION nce: production:	Cat Hand 00 feet ,243.2 LCY Rock, v feet ps/LCY	book Y/hr			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight:	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production:	Cat Hand 00 feet ,243.2 LCY Rock, v feet ps/LCY	book Ý/hr vell ripped o			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight: Weight description Job Condition Corr	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production:	Cat Hand 00 feet ,243.2 LCY Rock, v feet posed rock	book Ý/hr vell ripped o	, 25% Earth		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight: Weight description Job Condition Corr Ope	1.215 9,722 LCY I volume: I swell factor: DUCTION nce: production:	Cat Hand 00 feet ,243.2 LCY Rock, v feet posed rock 0.	book Y/hr vell ripped o 	, 25% Earth		

Visibility:	1.000	(AVG.)
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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2777	
Adjusted unit production: 34	5.24 LCY/hr	
5 1		

Adjusted fleet production:	345.24 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.894/LCY

Total job time:	28.16 Hours
Total job cost:	\$8,694

REVEGETATION WORK

Revenue	Mine	Per	rmit Action:	TR-16	Permit/Jol	b#: <u>M2012032</u>
ROJECT	IDENTIFICA	ATION				
Task #:	06A	State:	Colorado		Abbreviation:	None
Date:	9/2/2021	County:	Ouray		Filename:	M032-06a
	12:02:48 PM					
User:	ACY					

FERTILIZING

Materials

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

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.96	9.58	\$32.93
Mountain Brome - Bromar	8.00	12.86	\$30.40
Sandberg Bluegrass - VNS	1.00	21.24	\$8.40
Rye, Winter - VNS	19.20	7.93	\$10.27
Sheep Fescue - Covar	2.88	44.96	\$17.57
Slender Wheatgrass - Native	5.60	20.44	\$25.90
Milk Vetch, Cicer - Monarch	1.92	6.39	\$15.74
Thickspike Wheatgrass - Critana	6.76	23.90	\$46.48

Flax, Lewis Blue	0.50	3.32	\$8.25
Yarrow, Western	0.12	7.30	\$5.02
Totals Seed Mix	48.94	157.91	\$200.96

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.98	\$2.98
Hydromulch, 1 ton/ac. rate {Materials Only}	1.00	ACRE	\$424.71	\$424.71
Total Mulch Materials Cost/Acre				\$427.69

Application

Description		Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)		\$96.80
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$279.96

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	4.74	Cost /Acre:	\$1,175.83
Estimated Failure Rate:	30%	Cost /Acre*:	\$1,175.83
*Selected Replanting Work Items:	SEEDING, MULCHING		

Initial Job Cost:	\$5,573.43
Reseeding Job Cost:	\$1,672.03
Total Job Cost:	\$7,245
Job Hours:	30.00

REVEGETATION WORK

Revenue	venue Mine		mit Action:	TR-16	Permit/Jo	b#: <u>M2012032</u>
ROJECT	IDENTIFIC	ATION				
Task #:	06B	State:	Colorado		Abbreviation:	None
Date:	9/2/2021	County:	Ouray		Filename:	M032-06b
	12:03:34 PM					
	ACY					

FERTILIZING

Materials

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

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.96	9.58	\$32.93
Mountain Brome - Bromar	8.00	12.86	\$30.40
Sandberg Bluegrass - VNS	1.00	21.24	\$8.40
Rye, Winter - VNS	19.20	7.93	\$10.27
Sheep Fescue - Covar	2.88	44.96	\$17.57
Slender Wheatgrass - Native	5.60	20.44	\$25.90
Milk Vetch, Cicer - Monarch	1.92	6.39	\$15.74
Thickspike Wheatgrass - Critana	6.76	23.90	\$46.48

Flax, Lewis Blue	0.50	3.32	\$8.25
Yarrow, Western	0.12	7.30	\$5.02
Totals Seed Mix	48.94	157.91	\$200.96

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
Г	Sotal 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	\$307.02	\$614.04
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.98	\$2.98
Total Mulch Materials Cost/Acre				\$617.02

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,630.00
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$3,813.16

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

JOB TIME AND COST

Estimate	No. of Acres: ed Failure Rate:		Cost /Acre: Cost /Acre*:	
*Selected Replanting	ng Work Items:	SEEDING, MULCHING		
Initial Job Cost: Reseeding Job Cost:				

minua 300 Cost.	ψυ,υτν.υτ
Reseeding Job Cost:	\$1,013.96
Total Job Cost:	\$4,394
Job Hours:	10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descripti	on: Init	ial Mobilization						
: <u>Revenue</u> M	line	Permit	Action: TR-16	5	Pe	rmit/Jol	o#: <u>M</u>	2012032
PROJECT II	DENTIFICATI	<u>ON</u>						
Task #:	07A	State: Co	olorado		Abbrevi	ation:	None	
Date:	9/2/2021	County: O	uray		Filename:		M032	-07a
	11:57:44 AM							
User:	ACY							
Agen	cy or organization	n name: DRMS	3					
Bou			<u> </u>					
EOUIPMEN'	T TRANSPOR	T RIG COST						
					Shift basis		1 per da	
				C	Cost Data Source	e:	CRG Da	ta
Tr	ruck Tractor Desc	ription: GENE	ERIC ON-HIGHV	NAY TRU	UCK TRACTOR	x , 6X4, 1	DIESEL	POWERED,
				400 HP	(2ND HALF, 20	006)		
Т	ruck Trailer Desc	ription: G	SENERIC FOLD	ING GOO	SENECK, DRO	P DEC	K EQUI	PMENT
			Т	'RAILER	(25T, 50T, AND	D 100T)		
Cost Breakdow	n:							
Available Rig								
	g Capacities	0-25 Tons	26-50 Tons	51+	Tons			
Owners	ship Cost/Hour:	0-25 Tons \$21.28	26-50 Tons \$37.94		Tons 7.67			
Owners Operat	ship Cost/Hour: ting Cost/Hour:			\$4				
Owners Operat Opera	ship Cost/Hour: ting Cost/Hour: ator Cost/Hour:	\$21.28 \$26.55 \$20.54	\$37.94 \$50.48 \$20.54	\$4 \$5 \$2	7.67 6.21 0.54			
Owners Operat Opera Hel	hip Cost/Hour: ting Cost/Hour: ator Cost/Hour: per Cost/Hour:	\$21.28 \$26.55 \$20.54 \$0.00	\$37.94 \$50.48 \$20.54 \$23.53	\$4 \$5 \$2 \$2 \$2	7.67 6.21 0.54 3.53			
Owners Operat Opera Hel	ship Cost/Hour: ting Cost/Hour: ator Cost/Hour:	\$21.28 \$26.55 \$20.54	\$37.94 \$50.48 \$20.54	\$4 \$5 \$2 \$2 \$2	7.67 6.21 0.54			
Owners Operat Opera Hel Total U	hip Cost/Hour: ting Cost/Hour: ator Cost/Hour: per Cost/Hour:	\$21.28 \$26.55 \$20.54 \$0.00 \$68.37	\$37.94 \$50.48 \$20.54 \$23.53	\$4 \$5 \$2 \$2 \$2	7.67 6.21 0.54 3.53			
Owners Operat Opera Hel Total U	ship Cost/Hour: ting Cost/Hour: ator Cost/Hour: lper Cost/Hour: Jnit Cost/Hour: ABLE EQUIPN	\$21.28 \$26.55 \$20.54 \$0.00 \$68.37 MENT:	\$37.94 \$50.48 \$20.54 \$23.53	\$4 \$5 \$2 \$2 \$2	7.67 6.21 0.54 3.53 47.95 Haul Trip	Return		DOT Permit
Owners Operat Opera Hel Total U	ship Cost/Hour: ting Cost/Hour: ator Cost/Hour: lper Cost/Hour: Jnit Cost/Hour:	\$21.28 \$26.55 \$20.54 \$0.00 \$68.37	\$37.94 \$50.48 \$20.54 \$23.53 \$132.49	\$4 \$5 \$2 \$2 \$2 \$1 \$1	7.67 6.21 0.54 3.53 47.95 Haul Trip	Return Cost/hr.		DOT Permit Cost/ fleet

Unit	Cost/III/ unit	Cost/III/uIII	Size	COSt/III/	Cost/III/ Heet	Cost neet
(TONS)		t		fleet		
60.01	\$126.01	\$147.95	1	\$273.96	\$147.95	\$250.00
28.00	\$13.97	\$132.49	1	\$146.46	\$132.49	\$250.00
32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00
24.54	\$72.63	\$68.37	3	\$423.00	\$205.11	\$1,000.00
25.80	\$59.72	\$68.37	1	\$128.09	\$68.37	\$250.00
	(TONS) 60.01 28.00 32.23 24.54	(TONS) 60.01 \$126.01 28.00 \$13.97 32.23 \$83.42 24.54 \$72.63	(TONS) t 60.01 \$126.01 \$147.95 28.00 \$13.97 \$132.49 32.23 \$83.42 \$132.49 24.54 \$72.63 \$68.37	(TONS)t 60.01 \$126.01\$147.951 28.00 \$13.97\$132.491 32.23 \$83.42\$132.491 24.54 \$72.63\$68.373	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(TONS) t fleet 60.01 \$126.01 \$147.95 1 \$273.96 \$147.95 28.00 \$13.97 \$132.49 1 \$146.46 \$132.49 32.23 \$83.42 \$132.49 1 \$215.91 \$132.49 24.54 \$72.63 \$68.37 3 \$423.00 \$205.11

Subtotals: \$1,187.42 \$686.41 \$2,000.00

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	\$76.83	1	\$76.83	\$76.83
		Subtotals:	\$76.83	\$76.83

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance:	MONTROSE 45.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$15,942.94	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$197.56	

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):	1.50	NA
Unloading Time (Hours):	1.50	NA
Subtotals:	5.57	2.57

JOB TIME AND COST

Total job time: 11.14 Hours

Total job cost: \$16,140

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Valk equipment to	Govenors Basin	l				
Revenue Mine	Permit	t Action: <u>TR-1</u>	5	Pe	ermit/Jol	b#: <u>M2</u>	012032
PROJECT IDENTIFICAT	<u>FION</u>						
Task #: 07B	State: C	olorado		Abbrev	iation:	None	
Date: 9/2/2021 12:00:12 PM	County: O	Juray		File	ename:	M032-	07b
User: ACY							
Agency or organizati	on name: DRMS	S					
		-					
EQUIPMENT TRANSPO	RT RIG COST						
				Shift basi	o.	1 per day	
			(Cost Data Source		CRG Data	
Truck Tractor De	scription: GENE	ERIC ON-HIGHV			, ,	DIESEL	POWERED,
Truck Trailer De	scription:	GENERIC FOLD		(2ND HALF, 20 SENECK DRC	/	K EOUII	DMENIT
The Trailer De	scription. C			(25T, 50T, ANI		K EQUI	IVILLINI
		•	TU IILLIY	(201,001,111)	, 1001)		
Cost Breakdown:							
Available Rig Capacities	0-25 Tons	26-50 Tons	51+	Tons			
Ownership Cost/Hour:		\$37.94	\$4	7.67			
Operating Cost/Hour:	\$26.55	\$50.48	\$5	6.21			
	φ20.55						
Operator Cost/Hour:		\$20.54	\$2	20.54			
Helper Cost/Hour:	\$20.54			20.54 23.53			
<u>.</u>	\$20.54 \$0.00	\$20.54	\$2				
Helper Cost/Hour:	\$20.54 \$0.00	\$20.54 \$23.53	\$2	23.53			
Helper Cost/Hour:	\$20.54 \$0.00 \$68.37	\$20.54 \$23.53	\$2	23.53			

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 336D L 10'-6"	32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00
Stick							

Subtotals: \$215.91 \$132.49 \$250.00

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	\$76.83	1	\$76.83	\$76.83
		Subtotals:	\$76.83	\$76.83

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	REVENUE-GOV BASIN	
Total one-way travel distance:	3.50	miles
Average Travel Speed:	0.75	mph
Total Non-Roadable Mob/Demob Cost *	\$3,751.73 \$717.08	

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
4.67	4.67
4.67	4.67
0.00	NA
0.00	NA
9.33	9.33
	Roadable Equipment 4.67 4.67 0.00 0.00

JOB TIME AND COST

Total job time:	18.67	Hours

Total job cost: \$4,469

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: Sec	ondary Mobilizat	tion					
e: Revenue Min	e	Permit	Action: TR-1	6	I	Permit/Job#	#: <u>M</u> 2	2012032
PROJECT IDE	NTIFICATI	ON						
Task #: 07	С	State: Co	olorado		Abbre	viation:	None	
Date: 9/2	2/2021	County: Ou	ıray		Fi	lename:	M032-	-07c
	:01:41 PM					_		
User: AC	CY							
Agency	or organization	n name: DRMS						
	-							
EQUIPMENT '	FRANSPOR	T RIG COST						
					Shift ba	nia: 1	nor dor	<i>,</i>
				(Cost Data Sour		per day RG Dat	
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH				IESEL	POWERED,
T	1 T. 1. D.				(2ND HALF,	,	FOIL	
Iruc	k Trailer Desc	G	ENERIC FOLD		(25T, 50T, AN		EQUI	PMENI
				INAILLN	(251, 501, A)	D 1001)		
Cost Breakdown:								
Available Rig (Capacities	0-25 Tons	26-50 Tons	51-	- Tons			
Ownershi	p Cost/Hour:	\$21.28	\$37.94	\$4	47.67			
1	g Cost/Hour:	\$26.55	\$50.48		56.21			
	r Cost/Hour:	\$20.54	\$20.54		20.54			
	r Cost/Hour:	\$0.00	\$23.53	\$2	23.53			
Total Uni	t Cost/Hour:	\$68.37	\$132.49	\$1	47.95			
NON ROADAE	BLE EOUIPI	MENT:						
	1		11 1D'	101	TT 100 -	Determ T	·	DOT Dama it
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return T Cost/hr/		DOT Permit Cost/ fleet
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	COSt/III/	neet	
	(TONS)		t		fleet			

Subtotals: \$146.46 \$132.49 \$250.00

\$132.49

\$250.00

\$146.46

ROADABLE EQUIPMENT:

28.00

Hydroseeder with

Tractor

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$76.83	1	\$76.83	\$76.83
		Subtotals:	\$76.83	\$76.83

\$132.49

1

\$13.97

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	MONTROSE 45.00 35.00	miles
Total Non-Roadable Mob/Demob Cost *	\$1,510.22	1
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$197.56	

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: \$1,708