

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 October 23, 2019 the Division of Reclamation, Mining, and Safety (Division) <u>approved</u> the Technical Revision request (TR-4) submitted on July 26, 2019, 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 <u>additional bond in the amount of \$40949.59.</u> 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 Monday November 22, 2021. 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,

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 descrip	ption:	TR-16 Update o	f Buildings (Cost		
Site: Revenue Mine		Pe	Permit Action: TI		Permit/Jol	o#: <u>M2012032</u>
PROJECT	<u>IDENTIFI</u>	<u>CATION</u>				
Task #:	ACY	State:	Colorado		Abbreviation:	None
Date:	9/2/2021	County:	Ouray		Filename:	M32-000
User:	ACY					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
Site Cle					
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	·	<u>.</u>		<u>.</u>
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			4		1
	i.	DEMOLICII	T 1	80.00	\$32,054
03a 03b	Shaft foundation and structure removal Vent Shaft Closure-Cut Casing	DEMOLISH BOREHOLE	1 1	80.00	\$204
03b	Vent Shaft Closure-Place Seal	MINESEAL	1	72.00	\$5,365
03d	Vent Shaft Closure- Excavate & Bury	EXCAVATE	1	2.47	\$482
	·	LACAVAIL	1	2.47	μ ψ το 2
Gradin	\mathbf{g}		_		
04a	Minor site grading	DOZER	1	8.31	\$2,565
Topsoil	/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		→		<u>.</u>
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
		SUBTO	OTALS:	810.22	\$383,580

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:2.02Total =\$7,748Performance bond:1.05Total =\$4,028Job superintendent:405.11Total =\$29,180

Profit: 10.00 Total = $\frac{425,160}{328,358}$

TOTAL O & $P = \frac{$79,314}{}$

CONTRACT AMOUNT (direct + O & P) = \$462,894

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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	uctures and Si	ırface Debris		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>	
PROJE	CCT IDENTIFICATIO	<u>DN</u>					
Task #	: 01A	State:	Colorado		Abbreviation:	None	
Date	: 9/2/2021 9:54:42	County:	Ouray		Filename:	M032-01a	
	AM						
User	: ACY						
	Agency or organiz	ation name:	DRMS				

<u>UNIT COSTS</u> <u>Location adjustment: 87.60 %</u>

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

Demo Worksheet Cont'd Task # TTT Page 2 of 2

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

				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/.	Job#: M2012032
PROJE	ECT IDENTIFICATION	<u>N</u>				
Task #	: 01B	State:	Colorado		Abbreviation:	None
Date	9/2/2021 9:59:16	County:	Ouray		Filename:	M032-01b
	AM				<u></u>	
User	: ACY					
	Agency or organiza	tion 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	CY	\$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

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	16.00	(unadjusted):	\$5,625.92	location):	\$4,928.31

BULLDOZER WORK

Task description:	Contou	ır portal ba	ackfill area	s		
: Revenue Mine		Perm	nit Action:	TR-16	Permit/Job#:	M2012032
PROJECT IDENT	IFICATION	<u>N</u>				
Task #: 02A		State:	Colorado		Abbreviation:	None
Date: $\frac{-9/2}{2021}$		County:	Ouray		Filename:	M032-02a
10:00:51	AM	•	•			
User: ACY		=			_	
Agency or or	ganization na	me: DR	MS			
HOURLY EQUIPM	MENT COS	<u>T</u>				
Basic Machine:	Cat D9T - 9SU	U				
	405	-		<u>—</u>		
<u> </u>	Semi-Universa	al		<u>—</u>		
	NA	•••		_		
	l per day			_		
_	(CRG)			_		
_				<u>—</u>		
<u>Cost Breakdown</u> :			İ	TT:'1' .' 0/		
0 11 0 77			012 - 01	<u>Utilization %</u>		
Ownership Cost/Hou			\$126.01	NA		
Operating Cost/Hou			\$141.41	100		
Ripper own. Cost/Hou			\$0.00	NA		
Ripper op. Cost/Hou	r:		\$0.00	0		
Operator Cost/Hou	r:		\$41.30	NA		
	,328		_			
	.165		_			
Loose volume: 3	.877 LCY		<u> </u>			
Source of estimated vo	olume:	TR-11 inp	uts			
Source of estimated sv	vell factor:	Cat Handb	ook			
HOURLY PRODU	CTION					
A		25 f				
Average push distance Unadjusted hourly pro		35 feet 88.4 LCY/h	nr			
Materials consistency	description:	Rock, w	ell ripped o	r blasted 0.8		
Average push gradient	: 5 %					
Average site altitude:	10,650 f	eet				
Material weight:	2,900 lbs	s/LCY			_	
Weight description:	Decomp	osed rock -	50% Rock	, 50% Earth		
Job Condition Correct				Source		
	or Skill:	0.9		(AB.AVG.)		
Material cons		0.8		(CAT HB)		
Dozing	method:	1.0	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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2996

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

	Task description:	Reinforce g	ate at Revenue	Portal		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>
<u>ROJE</u>	CT IDENTIFICATIO	<u> N</u>				
Task #:	02B	State:	Colorado		Abbreviation:	None
Date	9/2/2021 10:01:52	County:	Ouray		Filename:	M032-02b
	AM					
	AIVI					

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	lation and struc	ture removal		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: M2012032
PROJE	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 organiza	tion 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				
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

	Task description:	Vent Shaft	Closure-Cut Ca	sing		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/J	Job#: <u>M2012032</u>
PROJE	CT IDENTIFICATIO	<u>N</u>				
Task #:	: 03B	State:	Colorado		Abbreviation:	None
Date:	9/2/2021 10:52:26	County:	Ouray		Filename:	M032-03b
	AM				_	
User:	ACY					
	Agency or organiza	tion name:	DRMS			

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

	Task description:	Vent Shaft	Closure-Place S	eal		
Site:	Revenue Mine		Permit Action:	TR-16	Permit/.	Job#: <u>M2012032</u>
PROJE	CT IDENTIFICATIO	<u> N</u>				
Task #	: 03C	State:	Colorado		Abbreviation:	None
Date	9/2/2021 10:53:34	County:	Ouray		Filename:	M032-03c
	AM					
User	: ACY					
User	ACY Agency or organiz	ation name:	DRMS			

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

					& Bury				
Revenue Mine	e		Permit A	ction: _	TR-16		Per	mit/Job#:	M2012032
PROJECT ID	ENTIFICA	ATION							
Task #: 031	D	Sta	ate: Col	orado			Abbre	eviation:	None
Date: 9/2	2/2021	Cour	-					lename:	M032-03d
	:58:03 AM								
	or organiza	-	DRMS						
HOURLY EQ	<u>UIPMENT</u>	<u>r cost</u>							
Basic Mac		t 336D L 10)'-6" Stick			Horsep	_		268
Attachm	ent 1: RC	OPS Cab				Weight	(MT): _ Basis:		9.30
						Shift Data Se	_		er day CRG)
Cost Breakdown:							·· • • • •		- /
	_				Utilization %				
	ip Cost/Hou		\$83.42		NA				
	ng Cost/Hour or Cost/Hour		\$74.14 \$37.32		100 NA				
•	or Cost/Hou nit Cost/Hou		\$37.32 \$194.88		NA				
	eet Cost/Hou		\$194.88						
MATERIAL (
Initial volu		112/2	CO	CY	Swell fa	ctor: 1	.330		
Loose volui	-		LC		• •				
		stimated volu		RMS	1-				
Sour HOURLY PRO	rce of estima ODUCTIO	ated swell fac DN	ctor: Ca	RMS at Handb		npty):			
Sour	rce of estima ODUCTIO Time (load l	nted swell face DN bucket, swin	g loaded, o	RMS at Handb dump bu c Job Co	cket, swing en	ption:		AVERAC	GE
Soun HOURLY PRO Excavator Cycle	rce of estima ODUCTIO Time (load l	nted swell face DN bucket, swin	g loaded, o Basic b Condition	RMS at Handb dump bu c Job Co on within	cket, swing en	ption:	BELOW SEVERE 0.390		GE minutes
Sour HOURLY PRO	rce of estima ODUCTIO Time (load l	nted swell face DN bucket, swin	g loaded, o Basic b Condition	RMS at Handb dump bu c Job Co on within	cket, swing en ndition Descrip n Basic Descrip	ption: ption: /alue:	SEVERE 0.390	,	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap	ODUCTIO Time (load l	ated swell fac <u>DN</u> <u>bucket, swin</u> Secondary Jo	g loaded, o Basic b Condition	RMS at Handb dump bu c Job Co on within	cket, swing en ndition Descrip n Basic Descrip Cycle Time V	ption: ption: /alue:	SEVERE	,	
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated 0	ODUCTIO Time (load loacity Capacity:	nted swell face DN bucket, swin	g loaded, o Basic b Conditio	RMS at Handb dump bu c Job Co on within	cket, swing en ndition Descrip n Basic Descrip Cycle Time V	ption: ption: /alue: Bucke	SEVERE 0.390 et Size Cl	,	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap	ODUCTIO Time (load loacity Capacity: Lapacity: Lapacity	ated swell face DN bucket, swin Secondary Jo 1.56	g loaded, o Basic b Conditio	RMS at Handb dump bu c Job Co on within	cket, swing en ndition Descrip n Basic Descrip Cycle Time V	ption: ption: /alue: Bucke	SEVERE 0.390 et Size Cl	,	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated O Bucket Fi	ODUCTIO Time (load loacity Capacity: Capacity: Capacity: Capacity: Capacity:	DN bucket, swin Secondary Jo 1.56 1.025	g loaded, o Basic b Conditio	RMS at Handb dump bu c Job Co on within CY (heap ock - Ear	cket, swing en ndition Descrip n Basic Descrip Cycle Time V ped) th Mixture (10	ption: ption: /alue: Bucke	SEVERE 0.390 et Size Cl %) 1.025	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (ODUCTIO Time (load loacity Capacity: Capacity: Capacity: Capacity: Capacity:	DN bucket, swin Secondary Jo 1.56 1.025	g loaded, o Basic b Conditio	RMS at Handb dump bu e Job Co on within CY (heap ock - Ear	cket, swing en ndition Descrip n Basic Descrip Cycle Time V ped) th Mixture (10	ption:	SEVERE 0.390 et Size Cl %) 1.025	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co	ODUCTIO Time (load loacity Capacity: Capacity: Capacity: Capacity: Capacity: Capacity: Capacity: Capacity:	bucket, swin 1.56 1.025 1.60 0.93	g loaded, o Basic b Conditio	RMS at Handb dump bu c Job Co on within CY (heap ock - Ear	ndition Description Basic Description Cycle Time Vetel Deed) The Mixture (10)	ption:	SEVERE 0.390 et Size Cl %) 1.025	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici	ODUCTIO Time (load loacity Capacity: Capacity	ated swell face DN bucket, swin Secondary Journal 1.56 1.025 1.60 ctors 0.93 0.83	g loaded, o Basic bb Condition LC Rc LC (C)	AMS at Handb dump bu c Job Co on within CY (heap ock - Ear CY Source CAT HB) shift/day	ndition Description Basic Description Cycle Time Veneral Mixture (10)	ption:	SEVERE 0.390 et Size Cl %) 1.025	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co	ODUCTIO Time (load loacity Capacity: Capacity	bucket, swin 1.56 1.025 1.60 0.93	g loaded, o Basic bb Condition LC Rc LC (C)	RMS at Handb dump bu c Job Co on within CY (heap ock - Ear CY Source	ndition Description Basic Description Cycle Time Veneral Mixture (10)	ption:	SEVERE 0.390 et Size Cl %) 1.025	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici	Capacity: Capaci	1.56 1.025 1.60 2.93 0.83 0.77 sted Hourly	g loaded, o Basic bb Condition LC Rc LC C C C C C C C C C C C C	AMS at Handb dump bu c Job Co on within CY (heap ock - Ear CY Source CAT HB) shift/day dtiplier	ndition Description Basic Description Cycle Time Verbed) rth Mixture (10 Signature)	ption:	SEVERE 0.390 et Size Cl %) 1.025 ee: 10650 Y/Hour	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici	Capacity: Capaci	1.56 1.025 1.60 ctors 0.93 0.83 0.77 sted Hourly batted Hourly batter Hourly batted Hourly batted Hourly batter Ho	g loaded, o Basic bb Condition LC Rc LC CO (C) (1) mu Unit Produ	AMS at Handb dump but at Job Co by Co cy (heap cy (heap cy Source CAT HB) shift/day altiplier action:	ndition Description Basic Description Cycle Time Verbed) th Mixture (10) 246.00 189.89	ption: ption: ption: /alue: Bucke 00%-105% te Altitud LCY LCY	SEVERE 0.390 et Size Cl %) 1.025 e: 10650 Y/Hour Y/Hour	ass: Sn	minutes
HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici Net Corre	Capacity: Capaci	1.56 1.025 1.60 2.93 0.83 0.77 sted Hourly	g loaded, o Basic bb Condition LC Rc LC CO (C) (1) mu Unit Produ	AMS at Handb dump but at Job Co by Co cy (heap cy (heap cy Source CAT HB) shift/day altiplier action:	ndition Description Basic Description Cycle Time Verbed) rth Mixture (10 Signature)	ption: ption: ption: /alue: Bucke 00%-105% te Altitud LCY LCY	SEVERE 0.390 et Size Cl %) 1.025 ee: 10650 Y/Hour	ass: Sn	minutes
Soun HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici	Capacity: Capaci	1.56 1.025 1.60 ctors 0.93 0.83 0.77 sted Hourly batted Hourly batter Hourly batted Hourly batted Hourly batter Ho	g loaded, o Basic bb Condition LC Rc LC CO (C) (1) mu Unit Produ	AMS at Handb dump but at Job Co by Co cy (heap cy (heap cy Source CAT HB) shift/day altiplier action:	ndition Description Basic Description Cycle Time Verbed) th Mixture (10) 246.00 189.89	ption: ption: ption: /alue: Bucke 00%-105% te Altitud LCY LCY	SEVERE 0.390 et Size Cl %) 1.025 e: 10650 Y/Hour Y/Hour	ass: Sn	minutes
HOURLY PRO Excavator Cycle Load Bucket Cap Rated (Bucket Fi Adjusted (Job Condition Co Altitude Job Effici Net Corre	Capacity: Capaci	1.56 1.025 1.60 ctors 0.93 0.83 0.77 sted Hourly betted Hourly Fixed Hourly Fixe	g loaded, o Basic bb Condition LC Rc LC CO (C) (1) mu Unit Produ	AMS at Handb dump but at Job Co by Co cy (heap cy (heap cy - Ear cy Source AT HB) shift/day attiplier action: action:	ndition Description Basic Description Cycle Time Verbed) th Mixture (10) 246.00 189.89	ption: ption: ption: /alue: Bucke 00%-105% te Altitud LCY LCY	SEVERE 0.390 et Size Cl %) 1.025 e: 10650 Y/Hour Y/Hour	ass: Sn	minutes

BULLDOZER WORK

Task description:	Minor	bite gradii	- 8				
Revenue Mine		Peri	mit Action:	TR-16	Peri	mit/Job#:	M2012032
PROJECT IDEN	TIFICATIO	<u>N</u>					
Task #: 04A		State:	Colorado		Abbrey	viation:	None
Date: 9/2/20	021	County:	Ouray			ename:	M032-04a
	:10 AM	county.	Guray		111	ciidiiic.	111032 0 14
User: ACY						-	
	organization n	ame: DR	RMS				
HOURLY EQUI	PMENT CO	ST					
Basic Machine:	Cat D9T - 95						
Horsepower:	405						
Blade Type:	Semi-Univer	rsal					
Attachment:	NA			<u> </u>			
Shift Basis:	1 per day			<u></u>			
Data Source:	(CRG)			<u></u>			
Cost Breakdown:							
Cool Dioundo Wil.				Utilization	ı %		
Ownership Cost/H	lour:		\$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 unit Cost/Hou Total Fleet Cost/Ho	\$308.77 sur: \$308.77		Ψ11.50				
Total Fleet Cost/Ho MATERIAL QU Initial Volume:	\$308.7 \$308.7 \$308.7 \$308.7 \$308.7 \$308.7 \$308.7 \$308.7		——————————————————————————————————————				
Total Fleet Cost/Ho MATERIAL QU	\$308.75 bur: \$308.75 \$4NTITIES		——————————————————————————————————————				
MATERIAL QU Initial Volume: Swell factor: Loose volume:	\$308.7 \$308.7	2	——————————————————————————————————————				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	\$308.75 \$308.75 \$308.75 \$308.75 \$308.75 \$3,045 \$1.165 \$3,547 LCY \$2,000 volume:	TR-13					
MATERIAL QU Initial Volume: Swell factor: Loose volume:	\$308.75 \$308.75 \$308.75 \$308.75 \$308.75 \$3,045 \$1.165 \$3,547 LCY \$2,000 volume:	2					
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	\$308.75 sur: \$308.75 \$308.75 \$308.75 \$3,045 1.165 3,547 LCY volume: swell factor:	TR-13					
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROL	\$308.7 \$308.7	TR-13 Cat Hand					
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	\$308.75 sur: \$308.75 \$	TR-13	 book				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROL Average push distar	\$308.75 Sur: \$308.75 \$308.75	TR-13 Cat Hand 90 feet 1,351.7 LC	book Y/hr	r blasted 0.8			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradie	##: \$308.75 ####################################	TR-13 Cat Hand 90 feet 1,351.7 LC	book Y/hr				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	##: \$308.75 ####################################	TR-13 Cat Hand 90 feet 1,351.7 LC	book Y/hr				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradie	\$308.7 \$	TR-13 Cat Hand 90 feet 1,351.7 LC	book Y/hr				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude	\$308.7 \$	TR-13 Cat Hand 90 feet 1,351.7 LC Rock, v feet bs/LCY	book Y/hr	r blasted 0.8			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Corre	### \$308.75 ### \$3	TR-13 Cat Hand 90 feet 1,351.7 LC Rock, v feet bs/LCY sposed rock	book Y/hr well ripped o	r blasted 0.8			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradic Average site altitude Material weight: Weight description: Job Condition Correct Ope	### \$308.7 ### \$308.7	TR-13 Cat Hand 90 feet 1,351.7 LC Rock, v feet bs/LCY posed rock 0.	book Y/hr well ripped o	r blasted 0.8	(G.)		

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

BULLDOZER WORK

Task description:	Sprea	d Topsoil o	on TSF			
: Revenue Mine		Per	mit Action:	TR-16	Permit/Job#:	M2012032
PROJECT IDENT	<u> </u>	<u>ON</u>				
Task #: 05B		State:	Colorado		Abbreviation:	None
Date: 9/2/202	21	County:	Ouray		Filename:	M032-05b
11:15:5	53 AM	•	•			
User: ACY					·	
Agency or o	organization n	name: DF	RMS			
HOURLY EQUIP	MENT CO	ST				
Basic Machine:	Cat D9T - 98	SU				
Horsepower:	405					
Blade Type:	Semi-Univer	rsal		<u>—</u>		
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
_	(CRO)					
Cost Breakdown:				I I4:1:		
0 1: 0 471			Φ1 2 < 01	<u>Utilization %</u>		
Ownership Cost/Ho			\$126.01	NA		
Operating Cost/Ho			\$141.41	100		
Ripper own. Cost/Ho			\$0.00	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	ur:		\$41.30	NA		
MATERIAL QUA	ANTITIES 4,001					
	1.125		<u> </u>			
	4,501 LCY					
		TD 11 D	. D			
Source of estimated v		TR-11 PA				
Source of estimated s	well factor:	Cat Hand	book			
HOURLY PRODU	<u>UCTION</u>					
Average push distance	e:	100 feet				
Unadjusted hourly pr		1,243.2 LC	Y/hr			
Materials consistency	description:	Partly of	consolidated	stockpile 1.1		
Average push gradier	nt: 0 %					
Average site altitude:		feet				
Material weight:	2,550 1	lbs/LCY				
Weight description:	Earth -	Dry packed	d			
Job Condition Correct				Source		
	ator Skill:		750	(AVG.)		
Material cor			100	(CAT HB))	
Dozing	g method:	1.	.000	(GEN.)		

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)

Net correction: 0.4941

Adjusted unit production: 614.27 LCY/hr
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

Task description:	Transpo	ort caprock for A	Atlas TSF			
Site: Revenue Mine		Permit Acti	on: TR-16]	Permit/Job#: N	M2012032
PROJECT IDE	NTIFICATION	I				
Task #: 05C Date: 9/2/2	2021	State: Color		Ab		one [032-05c
Date: 9/2/2 User: ACY		County: Ouray	<u>'</u>		riieliailie: W	1032-030
Agency o	or organization nar	me: DRMS				
HOURLY EQU	IPMENT COST	 '			is: <u>1 per day</u>	
	Truck Loader Tea		Equipment Descri neric 15-18 cy, 6x4			
	Truck Loader Tea		т 966H	T		
Sup	port Equipment -L					
Road N	-Di Maintenance –Mot	ump Area: NA or Grader: NA				
Road N		iter Truck: NA				
Cost Breakdown:	Truck/Lo	ader Team	Support l	Equipment	Maintena	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$33.16	\$59.72	NA	NA	NA	NA
Operating cost/hour:	\$53.10	\$55.20	NA	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$32.54	\$40.71	NA	NA	NA	NA
Unit Subtotals:	\$118.80	\$155.63	NA	NA	NA	
Number of Units:	3	1	0	0	0	
Group Subtotals:	Work:	\$512.03	Support:	\$0.00	Maint:	\$0.00
Total work team co		3				
Initial volume		CCY		factor: 1.000		
Loose volume	e: 6,389	9 LCY	•			
	ource of estimated e of estimated swe Material Purch To	ell factor: Cat I				
HOURLY PRO	<u>ODUCTION</u>					
Truck Capacity: Truck Payload (we			D1 // CSZ			
Material Desc		ck - broken	Pounds/LCY			
Rated P Payload Ca	Payload: 63,980		Pounds LCY			

Truck Bed (volume) Basis:						
Struck Volume:		LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	18.00	LCY				
Final	Truck Volume	Based on Number of	Loader Passes:	16.50	LCY	
Loading Tool Capacity						
<u></u>			Buck	tet Size Class: NA	A	
Rated Capacity:	5.000	LCY (heaped)	Buck	147	. 1	<u>—</u>
Bucket Fill Factor:	0.825	Blasted rock - av	o blasted (75 -	90%) 0.825		=
Adjusted Capacity:	4.125	LCY	g. blasted (75	7070) 0.023		_
riajastea capacity.						
Job Condition Corrections	<u>:</u>	Site	e Altitude (ft.): <u>1</u>	<u>0650</u> feet		
	Truck	Loader	Source			
Altitude Adj:	0.890	1.000	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.739	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pass	ses Required to I	Fill Truck:	4 1	oasses
Excavators and Front Shove	els:	-	_			
		D.C. NA				
Machine Cycle Time v Selected Value						
Track Loaders –	Material Descri	iption:				
Cycle Time Elements (min.)	:					
Load: NA	M	laneuver: NA		Dump: 0.100		
Load. IVA		TAILCUVEL.		Dump. 0.100		
Wheel and Track Loaders	- Unadjusted Ba	sic Loader Cycle Tim	e (load, dump, n	naneuver): 0.	500 min	utes
Cycle Time Factors				Factor (min.)	Source	
Material:	Material 3/4"	to 6" diameter 0.00		0.000	(Cat HB)	_
Stockpile:		dozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	_
Truck Ownership:		nership of trucks and l		-0.040	(Cat HB)	_
Operation:	Constant oper	ration -0.04		-0.040	(Cat HB)	
Dump Target:	Nominal targe	et 0.00		0.000	(Cat HB)	
		Net Cycle Time	e Adjustment:	-0.080	minutes	
		Adjusted Loade	-	0.420	minutes	
		Net Load Ti	me per Truck: _	1.360	minutes	
Truck Cycle Time:						
Truck Exchange Time	e: 0.50	Minutes	Adjusted	for site altitude:	0.562	Minutes
Truck Load Time		Minutes	•	for site altitude:	1.360	Minutes

Truck Travel (Haul & Return) Time: Road Condit

0.90

Minutes

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Adjusted for site altitude:

penetration 4.0

Truck Maneuver and Dump Time:

1.011

Minutes

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3500.00	2.00	4.00	6.00	1477	2.417

Haul Time: 2.417 minutes

Return Route:

11000111111	o 					
Seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time
	(Ft)		(%)	(%)	(fpm)	(min)
1	3500.00	-2.00	4.00	2.00	2960	1.217

Return Time: 1.217 minutes
Total Truck Cycle Time: 6.567 minutes

Loading Tool unit

Production 515.14 LCY/Hour Adjusted for job efficiency: 427.57 LCY/Hour Truck Unit Production 150.75 LCY/Hour Adjusted for job efficiency: 125.12 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 375.37 LCY/Hour Adjusted single truck/loader team production: 375.37 LCY/Hour Adjusted multiple truck/loader team production: 375.37 LCY/Hour

JOB TIME AND COST

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

Unit cost: \$1.364 /LCY Total job cost: \$8,715

BULLDOZER WORK

Task description:	Spr	ead Caprock	on 1SF			
: Revenue Mine		Per	mit Action:	TR-16	Permit/Job#:	M2012032
PROJECT IDE	NTIFICAT	<u>ION</u>				
Task #: 05D		State:	Colorado		Abbreviation:	None
Date: $\frac{-032}{9/2/2}$	2021	County:	Ouray		Filename:	M032-05d
_11:4:	3:46 AM	,			_	
User: ACY	7				_	
Agency o	r organizatio	n name: DF	RMS			
HOURLY EQU	IPMENT C	OST				
Basic Machine:	Cat D9T -	9SU				
Horsepower:	405			<u>—</u>		
Blade Type:	Semi-Univ	versal				
Attachment:	NA			_		
Shift Basis:	1 per day			<u></u>		
Data Source:	(CRG)			<u> </u>		
Cost Breakdown:						
Cost Breakdown.				<u>Utilization %</u>		
Ownership Cost/I	Hour:		\$126.01	NA		
Operating Cost/I			\$141.41	100		
Ripper own. Cost/I			\$0.00	NA		
Ripper op. Cost/I			\$0.00	0		
Operator Cost/I			\$41.30	NA		
Total unit Cost/Ho Total Fleet Cost/Ho						
Total Fleet Cost/Ho MATERIAL QU Initial Volume:	our: \$308 JANTITIE 8,002	3.72	_			
Total Fleet Cost/Ho MATERIAL QU	our: \$308	3.72 <u>S</u>				
MATERIAL QU Initial Volume: Swell factor:	8,002 1.215 9,722 LCY d volume:	3.72 S TR-11 P				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	\$308 UANTITIES 8,002 1.215 9,722 LCY d volume: d swell factor	3.72 S TR-11 P				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimates Source of estimates HOURLY PRO	\$308 SANTITIES	3.72 TR-11 PA Cat Hand				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	WANTITIES 8,002 1.215 9,722 LCY d volume: d swell factor DUCTION unce:	3.72 S TR-11 P	book			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly	8,002 1.215 9,722 LCY d volume: d swell factor DUCTION ance: production:	TR-11 PA Cat Hand 100 feet 1,243.2 LC	book	r blasted 0.8		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consister	8,002 1.215 9,722 LCY d volume: d swell factor DUCTION unce: production: acy descriptio	TR-11 PA Cat Hand 100 feet 1,243.2 LC	book Y/hr	r blasted 0.8		
MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimates Source of estimates HOURLY PROPERTY Average push dista	8,002 1.215 9,722 LCY d volume: d swell factor DUCTION ance: production: acy descriptio ient: 0 %	TR-11 PA Cat Hand 100 feet 1,243.2 LC	book Y/hr	r blasted 0.8		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consister Average push grad	SUANTITIES 8,002 1.215 9,722 LCY d volume: d swell factor DUCTION Ince: production: ncy description ient: de: 0 % 10,6	TR-11 PA : TR-11 PA Cat Hand 100 feet 1,243.2 LC n: Rock, v	book Y/hr	r blasted 0.8		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consister Average push grad Average site altitud	8,002 1.215 9,722 LCY d volume: d swell factor DUCTION ance: production: hey descriptio ient: 0 % de: 10,6	TR-11 PA : TR-11 PA Cat Hand 100 feet 1,243.2 LC n: Rock, v 50 feet	Y/hr well ripped o			
MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PRODURE Average push distated Unadjusted hourly Materials consister Average push grad Average site altitude Material weight: Weight description Job Condition Corn	SOUR: \$308 UANTITIES 8,002 1.215 9,722 LCY d volume: d swell factor DUCTION Ince: production: ney description de: 0 % 10,6 3,30 Exection Factor	TR-11 PA TR-11 PA Cat Hand 100 feet 1,243.2 LC Rock, v 50 feet 0 lbs/LCY composed rock	Y/hr well ripped o	25% Earth Source		
MATERIAL QUE Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PRODE Average push distated Unadjusted hourly Materials consister Average push grad Average site altitude Material weight: Weight description Open Open Source Open Swell Production Corner Corner Open Swell Production Corner Corne	SUANTITIES 8,002 1.215 9,722 LCY d volume: d swell factor DUCTION ance: production: ncy description ient: 0 % de: 10,6 3,30 i: Deco	TR-11 PA Cat Hand 100 feet 1,243.2 LC Rock, v 50 feet 0 lbs/LCY cmposed rock 0.	Y/hr well 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: 345.24 LCY/hr
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	Permit Action: TR-16			Permit/Job	#: <u>M2012032</u>	
ROJECT IDENTIFICAT	ΓΙΟΝ					
Task #: 06A Date: 9/2/2021 12:02:48 PM		lorado ray			oreviation: Filename:	None M032-06a
User: ACY					-	
Agency or organization	on name: DRMS					
ERTILIZING						
Iaterials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	
pplication						
Description						Cost /Acre
						\$
		Total	Fertilizer	Application	n Cost/Acre	\$0.00
<u> </u>						
Description						Cost /Acre
						\$
			7	Total Tilling	g Cost/Acre	\$0.00
<u>EEDING</u>						
Seed Mix				Rate – PLS LBS /	Seeds per SQ.	Cost /Acre

	LBS /	per SQ.	
	Acre	FT	
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

: Revenu	ie Mine	Permit Action: TR-16				Permit/Job#: M2012	
PROJEC'	T IDENTIFICATI	<u>ON</u>					
Task#			Colorado			oreviation:	None
Date	12:03:34 PM	County: (Ouray			Filename:	M032-06b
User	: ACY						
A	agency or organization	n name: DRM	S				
ERTILI	ZING						
Materials							
Descrip	otion		Units / Acre	Unit	Cost	t / Unit	Cost /Acre
					\$		\$
					Tota	al Fertilizer Materials Cost/Acre	1
pplication Descrip							Cost /Acre
							\$
			Total	Fertilizer	Application	1 Cost/Acre	
FILLING	<u> </u>						
Descrip	otion						Cost /Acre
							\$
				ŗ	Fotal Tilling	g Cost/Acre	\$0.00
SEEDIN(<u> </u>						
Seed M	lix				Rate – PLS	Seeds	Cost /Acre

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
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 Stock Cost / Acre				\$0.00	

JOB TIME AND COST

No. of Acres: 0.69 Cost/Acre: \$4,898.36

Estimated Failure Rate: 30% Cost /Acre*: \$4,898.36

*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$3,379.87

Reseeding Job Cost: \$1,013.96

Total Job Cost: \$4,394

10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	_		
Site:	Revenue Mine	Permit Action: TR-16	Permit/Job#: M2012032

PROJECT IDENTIFICATION

Task description:

Task #: 07A State: Colorado Abbreviation: None

Date: 9/2/2021 County: Ouray Filename: M032-07a

User: 11:57:44 AM ACY

Initial Mobilization

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

NON ROADABLE EQUIPMENT:

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	60.01	\$126.01	\$147.95	1	\$273.96	\$147.95	\$250.00
Hydroseeder with	28.00	\$13.97	\$132.49	1	\$146.46	\$132.49	\$250.00
Tractor							
Cat 336D L 10'-6"	32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00
Stick							
Cat 725	24.54	\$72.63	\$68.37	3	\$423.00	\$205.11	\$1,000.00
CAT 966H	25.80	\$59.72	\$68.37	1	\$128.09	\$68.37	\$250.00

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: MONTROSE

Total one-way travel distance: 45.00 miles

Average Travel Speed: 35.00 mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	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

Walk equipment to Govenors Basin

OJECT	<u>IDENTIFICATI</u>	<u>ION</u>			
Task #:	07B	State:	Colorado	Abbreviation:	None
Date:	9/2/2021	County:	Ouray	Filename:	M032-07b
	12:00:12 PM				
User:	ACY				

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Task description:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 336D L 10'-6" Stick	32.23	\$83.42	\$132.49	1	\$215.91	\$132.49	\$250.00

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

\$3,751.73

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig: Total Roadable Mob/Demob Cost **

Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$717.08

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	4.67	4.67
Return Time (Hours):	4.67	4.67
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	9.33	9.33

JOB TIME AND COST

Total job cost: \$4,469

M032-07c

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Secondary Mobilization	
Site: Revenue Mine	Permit Action: TR-16	Permit/Job#: <u>M2012032</u>
PROJECT IDENTIF	<u>TICATION</u>	
Task #: 07C	State: Colorado	Abbreviation: None

9/2/2021 County: Ouray 12:01:41 PM User: ACY

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day Cost Data Source: CRG Data

Filename:

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT Truck Trailer Description:

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Date:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Hydroseeder with Tractor	28.00	\$13.97	\$132.49	1	\$146.46	\$132.49	\$250.00

Subtotals: \$146.46 \$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:

Total one-way travel distance:

Average Travel Speed:

MONTROSE

45.00 miles

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	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	_