STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



May 21, 2014

Mark Cape Colorado Mining Enterprises, LLC 5021 NE 23rd Terrace Lighthouse Point, FL 33064 John W. Hickenlooper Governor

Mike King Executive Director

Virginia Brannon Director

Re:

CME Project, NOI No. P-2011-002, Modification No. MD-01, Modification is Adequate for Approval, Additional Financial Warranty Required

Dear Mr. Cape,

On May 21, 2014 the Division found that all technical issues were adequate with Modification MD-01 to your Notice of Intent to Conduct Prospecting. The Notice of Intent is currently bonded by a financial warranty posted in the amount of \$6,377.00. The Division has estimated the additional reclamation costs associated with the additional disturbance under this modification are \$2523.71. The additional reclamation costs exceed the amount of financial warranty (bond) currently posted, and additional bond must be submitted. The U.S. Forest Service office in Monte Vista, Colorado has been provided with a copy of the Division's estimate of reclamation costs.

The reclamation cost estimate for the additional disturbance is enclosed herewith for your information. Please review the costs and notify me promptly if you notice any errors or omissions.

At this time, the single remaining deficiency is the lack of sufficient bond. The Division has estimated the additional reclamation costs to be \$2,523.71, and an additional bond in this amount must be provided before the Notice of Intent can be fully approved. No prospecting activity may commence until the Division has reviewed and accepted the additional bond.

Please contact me if you have any questions: phone 970-247-5193, or email bob.oswald@state.co.us.

Sincerely,

Bob Oswald

Environmental Protection Specialist

Encl: Reclamation cost estimate

Ec: Barbara Coria, DRMS Denver

Russ Means, DRMS Grand Junction Patrick J. Moran, USFS Monte Vista

(c:\14-05 docs\CME NOI MD-01 fw-appr/rco)

COST SUMMARY WORK

Task description: Cost summary

Site: CME Mineral Prospecting Project Permit Action: MD-01 Permit/Job#: P2011002

PROJECT IDENTIFICATION

Task #:000State:ColoradoAbbreviation:NoneDate:5/8/2014County:MineralFilename:P002-000

Date: 5/8/2014 User: RCO

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
101	Remove debris	DEMOLISH	1	10.00	\$477.60
102	Close and seal one drill hole	BOREHOLE] 1	6.00	\$319.59
103	Fill and regrade mud pits	LOADER] 1	3.24	\$271.00
104	Fill troughs and trenching on roads	LOADER	1	0.34	\$29.00
105	Recontour pad and sump areas	DOZER	1	11.30	\$938.07
106	Carry topsoil to be respread on disturbed areas	LOADER	1	0.49	\$42.00
107	Spread topsoil on pad and sump areas	DOZER] 1	0.58	\$48.44
108	Revegetate disturbed areas	REVEGE	1	4.00	\$0.00
		<u>SUBTO</u>	TALS:	35.95	\$2,125.70

INDIRECT COSTS

OVERHEAD AND PROFIT:

 Liability insurance:
 2.02%
 Total =
 \$42.94

 Performance bond:
 1.05%
 Total =
 \$22.32

 Job superintendent:
 0.00 hrs
 Total =
 \$0.00

Job superintendent: 0.00 hrs $1000 \text{ Total} = \frac{\$0.00}{\$212.57}$

 $TOTAL O \& P = \frac{\$277.83}{CONTRACT AMOUNT (direct + O \& P)} = \frac{\$2,403.53}{\$2,403.53}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

O.00

Total = 0.00

Total = \$0.00

\$120.18

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$398.01

TOTAL BOND AMOUNT (direct + indirect) = \$2,523.71

Note: These costs comprise only the reclamation of the additional disturbance under MD-01, and are not included in the original NOI costs. Original costs include the equipment mobilization, and are not duplicated in this estimate.

DEMOLITION WORK

	Task description	n: <u>Re</u>	emove debris				
Site: Project		l Prospecting	Permit Action:	MD-01	Pe	Permit/Job#: P2011002	
PROJE	CT IDENTIF	<u>ICATION</u>					
Task # Date User	5/8/2014 RCO	or organization	State: Colorado County: Mineral name: DRMS		Abbreviat Filena		
UNIT C	<u>osts</u>				Location	adjustment	t: 91.60 %
	ure or Item scription	Dimensions	Demolition Me Selection	nu Quantity	y Unit	Unit Cost	Total Cost
Hand loa	nd debris	5 cy	Loading and 2 mile no salvage - Hand loading	haul, 5.00	CY	\$34.28	\$171.40
Dispose landfill	of debris at	5 cy	Dump fees - Lumber trees, brush	er, 5.00	CY	\$70.00	\$350.00

Subtotal (adjusted for Job Hours: 10.00 (unadjusted): \$521.40 location): \$477.60

Total Cost

Note: These costs are for the additional debris items associated with disturbance under MD-01, which mainly consist of removal of straw wattles, the trough lumber, and plastic sheeting.

BOREHOLE SEALING WORK

Task description:	Close and s	eal one drill hol	<u>e</u>		
CME Mineral Prospectin	ıg	Permit Action:	MD-01	Permit	/Job#: <u>P2011002</u>
CCT IDENTIFICATION					
: 102	State:	Colorado		Abbreviation:	None
		N.C 1			
: _5/8/2014	County:	Mineral		Filename:	P002-102
	CME Mineral Prospecting Project CCT IDENTIFICATION 102	CME Mineral Prospecting Project CCT IDENTIFICATION :102	CME Mineral Prospecting Permit Action: Project CCT IDENTIFICATION : 102 State: Colorado	CME Mineral Prospecting Permit Action: MD-01 CCT IDENTIFICATION :	CME Mineral Prospecting Permit Action: Project MD-01 Permit CCT IDENTIFICATION State: Colorado Abbreviation:

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Close one drill hole	Bentonite abandonment gel	2	595	595.00	LF	\$0.50	\$297.50
Cement seal one drill hole	Portland cement grout - 2 in. (labor, equip, materials)	2	3	3.00	LF	\$7.36	\$22.09

Job Hours: 6.00 Total Cost: \$319.59

Note: Drilling of up to four drill holes is approved under MD-01, but as these costs indicate, there may be only one drill hole open at a time. Interception of groundwater is anticipated, so this task includes compete filling of each bore hole with bentonite abandonment gel (per the requirements of Hard Rock Rule 5.4) followed by capping with cement plug.

WHEEL LOADER - LOAD AND CARRY WORK

CME Mineral 1	Prospecting	Permit Action	on:			
Project			_MD-01		Permit/Job#:	P2011002
PROJECT IDE	NTIFICATION	[
Task #: 103		State: Colora	ado		Abbreviation:	None
	014	County: Miner			Filename:	P002-103
User: RCC					2 2202	1002 103
Agency o	r organization nar	ne: DRMS				
HOURLY EQU	PMENT COST	<u>1</u>				
Basic Mach	ine: _CAT 446D)	_	Horsep	ower:	101
Attachmer	t 1: ROPS Cab		-	Shift I		er day
				Data Sc	ource: (C	CRG)
Cost Breakdown:			Utilizati	on %		
Ownership	Cost/Hour:	\$17.31	NA NA			
	Cost/Hour:	\$30.37	100			
	Cost/Hour:	\$35.82	NA			
-	Cost/Hour:	\$83.49				
Total Flee	Cost/Hour:	\$83.49				
			·			
MATERIAL QU	I A NUTUTURE					
OMITTE VI	ANIIIIES					
		CCY	Sw	ell factor: 1.	125	
Initial volume Loose volume	: _340	CCY	Sw	ell factor: 1.	125	
Initial volume Loose volume	340	LCY				
Initial volume Loose volume So	: 340 : 383 ource of estimated	volume: Divis	ion of Reclam	ell factor: 1.		
Initial volume Loose volume So	340	volume: Divis				
Initial volume Loose volume Source Source	340 2 383 2 383 2 383 2 2 383 2 383 2 2 383 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	volume: Divis	ion of Reclam			
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Initial volume Loose volume Source HOURLY PROI	340 22 383 24 383 25 383 26 27 383 27 383 28 383 29 383 20	volume: Divis	ion of Reclam Iandbook me (load, dum	ation, Mining &	2 Safety 0.475	minutes
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time St	2 340 2 383 2 3 383 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	volume: Divisible factor: Cat H ed Basic Cycle Ti material 0.02 justment - factor n	ion of Reclam landbook me (load, dum	ation, Mining &	0.475 Factor (min.) 0.020 0.000	Source (Cat HB) (Cat HB)
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N St Truck Ow	2 340 2 383 2 3 383 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	volume: Divisible factor: Cat H ed Basic Cycle Ti material 0.02 justment - factor n justment - factor n	ion of Reclam landbook me (load, dum not applicable not applicable	ation, Mining &	0.475 Factor (min.) 0.020	Source (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N St Truck Ow	340 2 383 2 383 2 2 383 2	volume: Divisible factor: Cat H ed Basic Cycle Ti material 0.02 justment - factor n	ion of Reclam landbook me (load, dum not applicable not applicable	ation, Mining &	0.475 Factor (min.) 0.020 0.000 0.000	Source (Cat HB) (Cat HB)
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time St Truck Ow	340 2 383 2 383 2 2 383 2	volume: Divisible factor: Cat H ed Basic Cycle Tile material 0.02 justment - factor notistent operation 0 target 0.04 Net	ion of Reclam landbook me (load, dum not applicable not applicable 0.04 Cycle Time A	ation, Mining &	0.475 Factor (min.) 0.020 0.000 0.000 0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N St Truck Ow Op Dump Rolling Resistance	2 340 2 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 383 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	volume: Divisible factor: Cat H ed Basic Cycle Tile material 0.02 justment - factor not factor n	ion of Reclam landbook me (load, dum not applicable	ation, Mining & ation, Mining	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.100 0.575	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N St Truck Ow Op Dump	340 383 Durce of estimated e of estimated sweet of estimated in the estimate of estimat	volume: Divisible factor: Cat H ed Basic Cycle Tile material 0.02 justment - factor not factor n	ion of Reclam landbook me (load, dum not applicable	ation, Mining & ation, Mining	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.100 0.575	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)

			Total Travel Ti Total Cycle Ti		_ minutes _ minutes
Load Bucket Capacity					
Rated Capacity	1.50	LCY (hea	aped)		
Bucket Fill Factor	1.025	Rock - Ea	arth Mixture (100%	%-105%) 1.025	
Adjusted Capacity	1.54	LCY			
Job Condition Correction Site Altitude: 9200 feet	Factors				
		Source			
Altitude Adj:	0.95	(CAT HE	3)		
Job Efficiency:	0.83	(1 shift/da	y)		
Net Correction:	0.79	multiplier			
Una	djusted Hourly Un	it Production:	149.44	LCY/Hour	
	djusted Hourly Un		117.83	LCY/Hour	
	justed Hourly Fle		117.83	LCY/Hour	
JOB TIME AND COS	<u>T</u>				
Fleet size: 1	Loader(s)	Total job time:	3.25	Hours
Unit cost: \$0.7	09 /LCY		Total job cost:	\$271.00	

WHEEL LOADER - LOAD AND CARRY WORK

233 4 TO 3 AC 1 TO 10		_	. •			
CME Mineral I Project	rospecting	Permit Act	tion: <u>MD-01</u>		Permit/Job#:	P2011002
PROJECT IDEN	NTIFICATION					
Task #: 104		State: Colo	rado		Abbreviation:	None
Date: 5/8/2	014	County: Mine			Filename:	P002-104
User: RCO					<u>-</u>	
Agency of	r organization nan	ne: DRMS				
HOURLY EQU	PMENT COST	<u>r</u>				
Basic Machi	ne: CAT 446D)		Horsepe	ower:	101
Attachmen	t 1: ROPS Cab		_	Shift I		er day
			_	Data So		CRG)
Cost Breakdown;						
			Utilizati	on %		
Ownership		\$17.31	NA			
Operating		\$30.37	100			
_	Cost/Hour:	\$35.82	NA NA			
Total Unit	Cost/Hour:	\$83.49				
Total Fleet	Cost/Hour:	\$83.49				
MATERIAL QU	ANTITIES					
		CC	V Suz	ell factor 1	165	
Initial volume	: _35	CC		ell factor:1.	165	
Initial volume Loose volume	35 41	LCY	Y			
Initial volume Loose volume So	: 35 : 41 urce of estimated	volume: Divi	Y ision of Reclam			
Initial volume Loose volume So	35 41	volume: Divi	Y			
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Ste Truck Own	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust Inconservation: Inconservation: Inconservation: Inconservation:	volume: Divide Cat Il factor: Cat ed Basic Cycle I material 0.02 justment - factor justment - factor justment - factor justment operation	rision of Reclam Handbook Time (load, dum not applicable not applicable	ation, Mining &	0.475 Factor (min.) 0.020 0.000	Source (Cat HB) (Cat HB)
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Ste Truck Own	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust Inconservation: Inconservation: Inconservation: Inconservation:	volume: Divided Basic Cycle Taxon Material 0.02 Justment - factor	ision of Reclam Handbook Time (load, dum not applicable not applicable 0.04	ation, Mining & np, maneuver): 0.00 0.00 djustment:	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.040 0.100	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Ste Truck Own	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust Inconservation: Inconservation: Inconservation: Inconservation:	volume: Divided Basic Cycle Taxon Material 0.02 Justment - factor	ision of Reclam Handbook Time (load, dum not applicable not applicable 0.04	ation, Mining & np, maneuver): 0.00 0.00 djustment:	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Ste Truck Own	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust ership: No adjust Target: Small	volume: Divided Basic Cycle Taxon Material 0.02 [ustment - factor ustment - factor ustment operation target 0.04]	ision of Reclam Handbook Time (load, dum not applicable not applicable 0.04	ation, Mining & np, maneuver): 0.00 0.00 djustment:	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.040 0.100	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time M Ste Truck Own Op Dump Rolling Resistance	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors [aterial: Mixed ockpile: No adjust ership: No adjust Target: Small - Road Condition Haul: Rutted di	volume: Divided Procession of the Procession of	ision of Reclam Handbook Time (load, dum not applicable not applicable 0.04 et Cycle Time A djusted Basic C	ation, Mining & np, maneuver): 0.00 0.00 djustment: ycle Time:	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.040 0.100 0.575	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
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Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Sta Truck Own Op Dump Rolling Resistance	urce of estimated of estimated swe of estimated in the estimated in the estimated of estimated in the estimate	volume: Divided Provided Basic Cycle Teactor Divided Basic	rision of Reclam Handbook Fime (load, dum not applicable not applicable 0.04 et Cycle Time A djusted Basic C nance, no water,	ation, Mining & np, maneuver): 0.00 0.00 djustment: ycle Time: 1" tire penetrat 1" tire penetrat	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.100 0.575 ion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Sta Truck Own Op Dump Rolling Resistance	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust ership: No adjust Target: Small - Road Condition Haul: Rutted directors Exturn: Rutted directors Rutted directors Length	volume: Divided Programme Divided Basic Cycle of Material 0.02 (justment - factor instent operation target 0.04 New York Programme Divided Programme Programme Divided Progra	ision of Reclam Handbook Time (load, dum not applicable not applicable 0.04 et Cycle Time A djusted Basic C nance, no water, nance, no water, Rolling	ation, Mining & ap, maneuver): 0.00 0.00 djustment: ycle Time: 1" tire penetrat 1" tire penetrat	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.040 0.100 0.575 ion 4.0 ion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROI Loader Cycle Time Cycle Time N Sta Truck Own Op Dump Rolling Resistance	: 35 : 41 urce of estimated of estimated swe DUCTION : Unadjust Factors Interial: Mixed ockpile: No adjust eration: Inconst Target: Small - Road Condition Haul: Rutted direction: Rutted direction: Rutted direction Length (feet)	volume: Divided Provided Basic Cycle Teached B	rision of Reclam Handbook Fime (load, dum not applicable not applicable 0.04 et Cycle Time A djusted Basic C nance, no water,	ation, Mining & np, maneuver): 0.00 0.00 djustment: ycle Time: 1" tire penetrat 1" tire penetrat	0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.100 0.575 ion 4.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

(Cat HB)

			Total Travel Ti Total Cycle Ti		_ minutes _ minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Factor	1.025		ped) orth Mixture (1009	%-105%) 1.025	
Adjusted Capacity	1.54	_ LCY			
Job Condition Correction Site Altitude: 9200 feet	<u>Factors</u>				
Altitude Adj: Job Efficiency: Net Correction:	0.95 0.83 0.79	Source (CAT HB (1 shift/da multiplier			
Ac	ljusted Hourly Unit i ljusted Hourly Unit i justed Hourly Fleet i	Production:	150.47 118.65 118.65	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>T</u>				
Fleet size: 1	Loader(s)		Total job time:	0.34	Hours
Unit cost: \$0.79	04 /LCY		Total job cost:	\$29.00	

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Carry	opsoil to be resp	Touc on distai	Dea areas		
CME Mineral le: Project	Prospecting	Permit Act	ion: MD-01		Permit/Job#:	P2011002
PROJECT IDE	NTTEIC A TION	r				
	NIIFICATION	•				
Task #: 106		State: Color			Abbreviation:	None
Date: <u>5/8/2</u>		County: Mine	ral		Filename:	P002-106
User: RCC						
Agency o	r organization nan	ne: DRMS	 .			
HOURLY EQU	IPMENT COST	<u>T</u>				
Basic Mach	ine: CAT 446D)		Horsepe	ower-	101
Attachmer			_	Shift I		er day
			_	Data So		CRG)
Cost Breakdown:						
COSt DIVARUUWII.			Utilizați	on %		
Ownership	Cost/Hour:	\$17.31	NA NA			
Operating	Cost/Hour:	\$30.37	100			
Operator	Cost/Hour:	\$35.82	NA			
Total Unit	Cost/Hour:	\$83.49				
Total Flee	t Cost/Hour:	\$83.49				
101411100		Ψ03.47				
MATERIAL QU	JANTITIES					
MATERIAL OU Initial volume		CC	Y Sw	ell factor: 1.	125	
	e: <u>55</u>	CC\		ell factor: 1.	125	
Initial volume	e: 55 e: 62	LCY	?			
Initial volume Loose volume	e: 55 e: 62 ource of estimated	LCY volume: Divi	sion of Reclam			
Initial volume Loose volume	e: 55 e: 62	LCY volume: Divi	?			
Initial volume Loose volume Source Source	e: 55 c: 62 course of estimated swe	LCY volume: Divi	sion of Reclam			
Initial volume Loose volume So Source HOURLY PRO	e: 55 e: 62 ource of estimated e of estimated swe DUCTION	volume: Divi Cat 1	sion of Reclam Handbook	ation, Mining &	z Safety	
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time	e: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjust	LCY volume: Divi	sion of Reclam Handbook	ation, Mining &		minutes
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time Cycle Time	e: 55 curce of estimated e of estimated swe DUCTION Unadjuster Factors	volume: Divi	sion of Reclams Handbook Time (load, dum	ation, Mining &	z Safety	minutes Source
Initial volume Loose volume So Source HOURLY PRO Loader Cycle Time Cycle Time	e: 55 curce of estimated e of estimated swe DUCTION Unadjust Factors Material: Materi	volume: Divi Il factor: Cat I ed Basic Cycle T al 1/8" to 3/4" d	sion of Reclams Handbook Time (load, dum	ation, Mining &	0.475 Factor (min.) -0.020	Source (Cat HB)
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time	e: 55 c: 62 curce of estimated swe DUCTION Unadjust Factors Material: Materiockpile: Conve	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an	ation, Mining &	0.475 Factor (min.) -0.020 0.000	Source (Cat HB) (Cat HB)
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time N St Truck Ow	be: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjusted Factors Factors Material: Material Convenership: No adjusted N	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000	Source (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow	be: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjuste Factors Material: Material: Convenership: No adjustents Material: Incons	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000 0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow	be: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjuste Factors Material: Material: Convenership: No adjustents Material: Incons	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation of	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow	be: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjuste Factors Material: Material: Convenership: No adjustents Material: Incons	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation of target 0.04	sion of Reclams Handbook Time (load, dum iameter -0.02 dd 10 ft. high an not applicable (0.04 t Cycle Time A	ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow Op Dump	be: 55 c: 62 curce of estimated swe of	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation of target 0.04	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume Loose volume Source HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow	be: 55 c: 62 curce of estimated swe of	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation of target 0.04	sion of Reclams Handbook Time (load, dum iameter -0.02 dd 10 ft. high an not applicable (0.04 t Cycle Time A	ation, Mining &	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 curce of estimated sweet of estimate	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation of target 0.04	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (0.04 t Cycle Time A djusted Basic C	d up 0.00 0.00 djustment:	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.060 0.535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume Solume Solume HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 curce of estimated sweet of estimate	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation target 0.04 Ne Acc	sion of Reclams Handbook Time (load, dum iameter -0.02 dd 10 ft. high an not applicable (0.04 t Cycle Time A ljusted Basic Cycle Time A	ation, Mining & ap, maneuver): d up 0.00 0.00 djustment: ycle Time:	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.0535 ation 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 curce of estimated sweet of estimate	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation target 0.04 Ne Ac s ed dirt, no maint	sion of Reclams Handbook Time (load, dum iameter -0.02 dd 10 ft. high an not applicable (0.04 t Cycle Time A ljusted Basic Cycle Time A	ation, Mining & ap, maneuver): d up 0.00 0.00 djustment: ycle Time:	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.0535 ation 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume Solume Solume HOURLY PROD Loader Cycle Time Cycle Time St Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 curce of estimated e of estimated swe DUCTION Unadjust Factors Material: Materiockpile: Convenership: No adjusteration: Inconstate Target: Small Road Conditions Haul: Soft, rutt Esturn: Soft, rutt Esturn: Soft, rutt Energy Material: Soft, rutt Energy Material: Soft, rutt Energy Material: Soft, rutt Esturn: Soft, rutt Energy Material: Soft, ru	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile fustment - factor istent operation target 0.04 Ne Ac s ed dirt, no maint ed dirt, no maint	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (0.04 t Cycle Time A djusted Basic Cycle enance or water	d up 0.00 0.00 djustment: ycle Time: r, 4" tire penetra	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.060 0.535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 cource of estimated e of estimated swe DUCTION Unadjusta Factors Material: Materiockpile: Convenership: No adjustaterial: Inconsection: Inconsection: Inconsection: Small Road Condition: Haul: Soft, rutterturn: Soft, rutterturn: Soft, rutterturn: Length	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile ustment - factor istent operation target 0.04 Ne Ac s ed dirt, no maint ed dirt, no maint Grade Res.	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (0.04 t Cycle Time A djusted Basic Cycle	d up 0.00 0.00 djustment: ycle Time: r, 4" tire penetra r, 4" tire penetra	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.040 0.535 ation 8.0 ation 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes
Initial volume Loose volume So Source HOURLY PROD Loader Cycle Time Cycle Time Truck Ow Op Dump Rolling Resistance	be: 55 c: 62 cource of estimated e of estimated swe DUCTION Unadjust Factors Material: Material: Material: Convenership: No adjust Target: Small Road Conditions Haul: Soft, rutt eturn: Soft, rutt me Length (feet)	volume: Divi ll factor: Cat l ed Basic Cycle T al 1/8" to 3/4" d yor or dozer pile fustment - factor istent operation target 0.04 Ne Ac s ed dirt, no maint ed dirt, no maint	sion of Reclams Handbook Time (load, dum iameter -0.02 d 10 ft. high an not applicable (0.04 t Cycle Time A djusted Basic Cycle enance or water	d up 0.00 0.00 djustment: ycle Time: r, 4" tire penetra	0.475 Factor (min.) -0.020 0.000 0.000 0.040 0.040 0.060 0.535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

			Fotal Travel Total Cycle T		minutes minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Factor Adjusted Capacity	r: 1.100	LCY (heaped Other - rock/	d) /dirt mixtures	(100-120%) 1.100	
Job Condition Correction Site Altitude: 9200 feet	Factors				
Α	0.95 0.83 0.79 adjusted Hourly Unit	Production:	157.12 123.89 123.89	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	ST Loader(s)	To	otal job time:	0.50	Hours
Unit cost: \$0.6	574 /LCY		otal iob cost:	\$42.00	

BULLDOZER WORK

Task description:	Recontour pad and sump ar	eas		
CME Mineral Prospe	cting Permit Action:	MD-01	Permit/Job#:	P2011002
PROJECT IDENTIF	ICATION			
Task #: 105	State: Colorado		Abbreviation:	None
Date: 5/8/2014	County: Mineral		Filename:	P002-105
User: RCO			1 11011011101	1002 100
Agency or organ	nization name:DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D4K LGP - 4P			
Horsepower: 84				
	ver Angle Tilt			
Attachment: NA		_		
Shift Basis: 1 pe	er day	_		
Data Source: (CR				
Cost Breakdown:		<u> </u>		
		Utilization %		
Ownership Cost/Hour:	\$14.11	NA		
Operating Cost/Hour:	\$31.48	100	_ _	
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
MATERIAL QUANT Initial Volume: 842 Swell factor: 1.16:				
Loose volume: 981				
Source of estimated volum	ne: Division of Reclamati	ion. Mining & Safety		
Source of estimated world		on, mining at barery		
	TON.	_		
HOURLY PRODUCT				
Average push distance:	50 feet			
Unadjusted hourly produc	tion: 300.0 LCY/hr			
Materials consistency des	cription: Partly consolidated	stockpile 1.1		
Average push gradient:	15 %			
Average site altitude:	9,200 feet			
Material weight:	2,900 lbs/LCY			
Weight description:	Decomposed rock - 50% Rock	, 50% Earth		
Job Condition Correction	Factor_	Source		
Operator S	Skill: 0.750	(AVG.)		
Material consiste		(CAT HB)		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2893

Adjusted unit production: 86.79 LCY/hr
Adjusted fleet production: 86.79 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.956/LCY

Total job time: 11.30 Hours
Total job cost: \$938.07

BULLDOZER WORK

Task description:	Spread	l topsoil on pad and s	ump areas		
CME Mineral Pr	ospecting	Permit Action:	MD-01	Permit/Job#:	P2011002
PROJECT IDEN	TIFICATIO	N			
Task #: 107 Date: 5/8/20 User: RCO		State: Colorado County: Mineral		Abbreviation: Filename:	None P002-107
	organization na	ame: DRMS			
HOURLY EQUI					
Basic Machine:	Cat D4K LGI	P - 4P			
Horsepower:	84				
Blade Type:	Power Angle	Tilt			
Attachment:	NA		_		
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Ho		\$14.11	NA		
Operating Cost/Ho		\$31.48	100	_ _	
Ripper op. Cost/Ho	our:	\$0.00	0		
Operator Cost/Ho		\$37.41	NA		
MATERIAL QUA					
Swell factor:	55 1,000 55 LCY				
Source of estimated v	volume:	Division of Reclamat	ion Mining & Safety		
Source of estimated s	_	Cat Handbook	ion, winning & Safety		
HOURLY PROD	<u>UCTION</u>				
Average push distance		0 feet	····		
Unadjusted hourly pr	oduction: 3	00.0 LCY/hr			
Materials consistency	description:	Loose stockpile 1.2			
Average push gradier	nt: 15 %				
Average site altitude:		et			
Material weight:	2,550 lb				
Weight description:		Ory packed		-	
-		* *	Sauras.		
Job Condition Correct		0.750	Source		
	ator Skill:	0.750	(AVG.)	_	
Material cor	isistency:	1.200	(CAT HB)		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3141

Adjusted unit production: 94.23 LCY/hr
Adjusted fleet production: 94.23 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.881/LCY

Total job cost: 0.58 Hours
Total job cost: \$48.44

REVEGETATION WORK

MD-01

Task description:

Revegetate disturbed areas

CME Mineral Prospecting

Permit Action:

Site: Project

Permit/Job#: P2011002

PROJECT IDENTIFICATION

Task #:

108

State:

Colorado

Abbreviation:

None

Date:

5/8/2014 User: RCO

County: Mineral Filename:

P002-108

Agency or organization name: __DRMS

FERTILIZING

Materials

Description 10-34-0, 18-46-0, 5-10-5	Units / Acre 200.00	Unit	Cost / Unit	Cost /Acre \$65.40
	200.00	pounu	Total Fertilizer Materials Cost/Acre	\$65.40

Application

Description		Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	·	\$87.56
-		
	Total Fertilizer Application Cost/Acre	\$87.56

TILLING

Description		Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)		\$145.20
	Total Tilling Cost/Acre	\$145.20

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.00	3.24	\$7.08
Arizona Fescue - Redondo	1.25	14.35	\$13.79
Blue Grama - Native	1.00	16.32	\$10.35
Canby Bluegrass - Canbar	0.25	5.31	\$2.10
Sand Dropseed	0.15	17.91	\$1.05
Mountain Brome - Bromar	1.50	2.41	\$5.10
Slender Wheatgrass - San Luis	1.25	4.56	\$4.64
Western Wheatgrass - Arriba	1.25	3.16	\$4.60
Needlegrass, Green - Lodorm	1.00	4.16	\$5.39
Penstemon, Rocky Mountain	0.25	3.92	\$8.43
Yarrow, Western	0.10	6.08	\$3.07

	Totals Seed Mix	9.00	81.41	\$65.58
pplication				_
Description				Cost /Acre
Broadcast seeding [DMG]				\$261.28
	Total Seed	Application	on Cost/Acre	\$261.28

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	40.00	BALE	\$10.60	\$424.00
Total Mulch Materials Cost/Acre				\$424.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	· · · · · · · · · · · · · · · · · · ·	
	Total Mulch Application Cost/Acre	\$86.68

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: 0.25 Cost /Acre: \$1,135.70

Estimated Failure Rate: 30% Cost /Acre*: \$625.02

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING

Initial Job Cost: \$283.93

Reseeding Job Cost: \$46.88

Total Job Cost: \$330.80

Job Hours: 4.00

Note: Proposed seeding rates in this MD-01 application are appropriate since they meet the optimal broadcasting amount of 80 pure live seeds per square foot. Seed and fertilizer applications are manual, followed by dragging the seeded areas with an ATV to incorporate the seed. This task also includes weed control treatment and mulching with straw.