COST SUMMARY WORK

e: C8 Drill	ing NOI	Per	rmit Action: 2019	MD-1 Per	mit/Job#:	P2016025
PROJECT	DENTIFIC	<u>CATION</u>				
Task #:	000	State:	Colorado	Abbrevia	tion: N	lone
Date:	4/26/2019	County:	Gunnison	Filen	ame: P	025-000
User:	DMC					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Backfill drill holes with cuttings	MINESEAL	1	53.00	\$3,050
02a	Seal drill holes	BOREHOLE	1	53.00	\$1,240
03a	Spread topsoil over drill pads	LOADER	1	7.28	\$672
04a	Revegetate drill pad areas	REVEGE	1	2.00	\$2,758
05a	Mobilize reclamation crew/equipment	MOBILIZE	1	4.97	\$1,045
		\$8,765			

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Total = \$177 Performance bond: 1.05 Total = \$92 Job superintendent: 0.00 Total = \$0 10.00 \$876 Profit: Total =

> TOTAL O & P =\$1,146

CONTRACT AMOUNT (direct + O & P) = \$9,911

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0 \$0 Total = Engineering work and/or contract/bid preparation: 0.00 Total = \$0 Reclamation management and/or administration: 5.00 \$496

> CONTINGENCY: 0.00 Total = \$0

> > TOTAL INDIRECT COST = \$1,641

TOTAL BOND AMOUNT (direct + indirect) = \$10,406

SAFEGUARDING UNDERGROUND OPENINGS

Tas	k description:	Backfill drill	l holes with cut	tings			
Site: C	8 Drilling NOI		Permit Action:	2019 MD-1	Permit	/Job#: <u>P2016025</u>	
<u>PROJECT</u>	DENTIFICATION	<u>N</u>					
Task #: Date: User:	01A 4/29/2019 DMC	State: County:	Colorado Gunnison		Abbreviation: Filename:	None P025-01a	<u> </u>
	Agency or organiza	tion name:	DRMS				

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
51 drill holes, avg. 700'	51 x 700' x 4"	Shaft closure - backfilling,	231.00	CY	\$13.00	\$3,003.00
depth		by hand				
2 existing holes, avg.	2 x 500' x 3"	Shaft closure - backfilling,	3.60	CY	\$13.00	\$46.80
500' depth		by hand				

BOREHOLE SEALING WORK

T	ask description:	Seal drill ho	les			
Site:	C8 Drilling NOI		Permit Action:	2019 MD-1	Permit	/Job#: <u>P2016025</u>
PROJEC	T IDENTIFICATION	<u>N</u>				
Task #: Date: User:	4/29/2019	State: County:	Colorado Gunnison		Abbreviation: Filename:	None P025-02a
	Agency or organiza	tion name:	DRMS			

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug 53 drill holes	Portland cement grout - 4 in. (labor, equip, materials)	4	5	265.00	LF	\$4.68	\$1,240.20

 Job Hours:
 53.00
 Total Cost:
 \$1,240.00

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Spread	topsoil over dr	ill pads				
e: C8 Drilling NOI		Permit A	ction: 20	019 MD-1		Permit/Jo	b#: P2016025
PROJECT IDENTII	FICATION						
Task #: 03A		State: Colo	orado			Abbreviation:	None
Date: 4/30/201	9	County: Gun	nison			Filename:	P025-03a
User: DMC							
Agency or org	anization na	me: DRMS					
HOURLY EQUIPM	ENT COST	<u>Γ</u>					
Basic Machine:	CAT 450	E			Horsepov	ver:	101
Attachment 1:	ROPS Ca		_		Shift Ba		per day
Tittaeimient 1.	11015 04	<u> </u>	_		Data Sou		CRG)
Cost Breakdown:							
			Ut	ilization %			
Ownership Cos		\$24.67		NA			
Operating Cos		\$26.68		100			
Operator Cos		\$40.90		NA			
Total Unit Cos	t/Hour:	\$92.25					
Total Fleet Cos	st/Hour:	\$92.25					
MATERIAL QUAN	TITIES						
Initial volume:		CC	·V	Swell fac	etor: 1.00	20	
Loose volume:	1,076 1,07			Swell lac	7.0r. 1.0	<u> </u>	
-	of estimated			v 50' v 50'	, v 4,, ora	danth	
	estimated swe		Handboo	x 50' x 50' k	x 4 avg.	иериі	
				<u></u>			
HOURLY PRODUC	<u>TION</u>						
Loader Cycle Time:		Unadjusted E	Basic Cycl	e Time (loa	ad, dump,	0.475	minutes
		3	,	*	aneuver):	0.475	
Cycle Time Fac					I	Factor (min.)	Source
Mate		rial up to 1/8" d				0.020	(Cat HB)
Stock	pile: Conv	eyor or dozer pi	led 10 ft.	high or less	3	0.010	(Cat HB)
Truck Owners		djustment - facto	or not appl	icable 0.00)	0.000	(Cat HB)
Operat		tant operation -(-0.040	(Cat HB)
Dump Tai		djustment - facto		icable 0.00		0.000	(Cat HB)
				me Adjustr		-0.010	minutes
		A	djusted Ba	sic Cycle T	Γime:	0.465	minutes
				-			
<u>Rolling Resistance – Ro</u>	ad Condition	<u>ıs</u>					
Hau	ıl: Rutted	dirt, little mainte	enance, no	water. 1" t	tire penetra	tion 4.0	
Retur		dirt, little mainte					
				,			
Haul and Return Time		1	1	i			
	Length	Grade Res.	Rolli	_	otal Res.	Travel Time	Source
	(feet)	(%)	Res. (%)	(%)	(minutes)	200100

Haul Route:	50	0.00	4.00	4.00	0.0317	(Cat HB)
Return Route:	50	0.00	4.00	4.00	0.0317	(Cat HB)

Total Travel Time: 0.0635 minutes
Total Cycle Time: 0.5285 minutes

Load Bucket Capacity

Rated Capacity: 1.50 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: ______ LCY

Job Condition Correction Factors

Site Altitude: 10000 feet

		Source
Altitude Adj:	0.95	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.79	multiplier

Unadjusted Hourly Unit Production: 187.33 LCY/Hour Adjusted Hourly Unit Production: 147.71 LCY/Hour Adjusted Hourly Fleet Production: 147.71 LCY/Hour

JOB TIME AND COST

Fleet size:	1	_ Loader(s)	Total job time:	7.28	Hours
Unit cost:	\$0.625	/LCY	Total job cost:	\$672	_

REVEGETATION WORK

Discription Cost /Acre State Colorado Abbreviation: None P025-04a	C8 Drilling NOI	Perr	nit Action: 2019 I	мD-1		Permit/Job#	: P2016025
Task #: 04A	Co Di lilling 1101		111t / Ction:	VID 1		1 CHIII II 30011	. 12010023
Date: 4/30/2019 County: Gunnison Filename: P025-04a Unit	ROJECT IDENTIFICAT	<u>'ION</u>					
Date: 4/30/2019 County: Gunnison Filename: P025-04a Unit	Task #: 04A	State:	Colorado		А	bbreviation:	None
DRMS DRMS							
Cost /Acre Unit Cost / Unit Cost / Unit Cost / Acre Unit Cost / Unit Cost / Acre S S		_					
Units / Acre	Agency or organization	on name: DRI	MS				
Units / Acre							
Units Cost Unit Cost Unit Cost Unit Cost Cost Acre Unit S S S							
S S S S S S S S S S			Units /				G
Total Fertilizer Materials Cost/Acre \$0.00	Description		Acre	Unit	Co	ost / Unit	Cost /Acre
Cost /Acr S					\$		\$
Cost /Acr S			Tota	l Fertiliz	er Materi	als Cost/Acre	\$0.00
Cost /Acr S							II.
Cost /Acr S	1' 4'						
S Total Fertilizer Application Cost/Acre \$0.00	plication						
Total Fertilizer Application Cost/Acre \$0.00	Description						Cost /Acre
Total Fertilizer Application Cost/Acre \$0.00							\$
Cost /Acr S			Total 1	Fertilizer	Annlicati	ion Cost/Acre	
Cost /Acr S			10001	- CI thizei	тррпсии	1011 0030/11010	ψο.σσ
Cost /Acr S	LLING						
Sample S	<u>LLING</u>						T
Sample S	Description						Cost /Acre
Rate - PLS PLS Penstemon, Rocky Mountain Solution Penstemon Solution Penstemon Penstem	Description						
Rate - PLS DING Rate - PLS DISTRICT							
Rate - PLS LBS / Acre FT Cost /Acre Alpine Fescue 6.00 179.06 \$107.04					Fotal Tilli	ing Cost/Acre	\$0.00
Rate - PLS LBS / Acre FT Cost /Acre Alpine Fescue 6.00 179.06 \$107.04							
PLS LBS / Acre PLS LBS / Acre FT Cost /Acre PLS LBS / Acre PC PC PC PC PC PC PC P	<u>CEDING</u>						
LBS / Acre FT Per SQ. FT Per SQ. Per SQ. Per SQ. Per SQ. Penstemon, Rocky Mountain 1.00 15.67 \$30.21 Sainfoin - Shoshone 3.00 1.31 \$5.10 Solication Sol					Rate –		
LBS / Acre FT FT Acre FT Acre FT Acre FT FT FT FT FT FT FT F	Seed Mix				PLS		Cost /Acre
Acre Alpine Fescue 6.00 179.06 \$107.04 Canby Bluegrass - Canbar 5.00 106.29 \$48.65 Penstemon, Rocky Mountain 1.00 15.67 \$30.21 Sainfoin - Shoshone 3.00 1.31 \$5.10 Totals Seed Mix 15.00 302.34 \$191.00							
Alpine Fescue 6.00 179.06 \$107.04 Canby Bluegrass - Canbar 5.00 106.29 \$48.65 Penstemon, Rocky Mountain 1.00 15.67 \$30.21 Sainfoin - Shoshone 3.00 1.31 \$5.10 Totals Seed Mix 15.00 302.34 \$191.00						FT	
Penstemon, Rocky Mountain Sainfoin - Shoshone 1.00 15.67 3.00 1.31 \$5.10 Totals Seed Mix 15.00 302.34 \$191.00	Alpine Fescue					179.06	\$107.04
Penstemon, Rocky Mountain Sainfoin - Shoshone 1.00 15.67 3.00 1.31 \$5.10 Totals Seed Mix 15.00 302.34 \$191.00	Canby Bluegrass - Canbar			-	5.00	106.29	\$48.65
Totals Seed Mix 15.00 302.34 \$191.00 olication	Penstemon, Rocky Mountai	n					
olication	Sainfoin - Shoshone				3.00	1.31	\$5.10
			Totals So	eed Mix	15.00	302.34	\$191.00
					1	ı	
Description Cost /Acr	pheation						
DUSCH IDUUH	Description						Cost /Acre

Broadcast seeding [DMG]

Total Seed Application Cost/Acre

\$267.22

\$267.22

MULCHING and MISCELLANEOUS

Materials

Reveg Worksheet Cont'd

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
	F	\$576.00		

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
	Total Mulch Application Cost/Acre	\$68.78

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:	2	Cost /Acre:	\$1,103.00
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,103.00

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost:
Reseeding Job Cost:
Total Job Cost:
Job Hours:

\$2,206.00
\$551.50
\$2,758
2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilize reclamatio	on crew/equipmen	t		
Site: C8 Drilling NOI	Permit	t Action: 2019 M	D-1	Permit/Jol	b#: P2016025
PROJECT IDENTIFICAT	ION				
Task #: 05A	State: C	Colorado	Abb	reviation:	None
Date: 4/30/2019	County: G	unnison		Filename:	P025-05a
User: DMC					
Agency or organizatio	n name:DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shift b	asis:	1 per day
			Cost Data So	-	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:	\$16.63	\$18.37	\$22.33		
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07		
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66		
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	(TONS)		t		fleet		
CAT 450E	9.80	\$24.67	\$88.67	1	\$113.34	\$88.67	\$250.00

\$125.45

\$117.55

Subtotals: \$113.34 \$88.67 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$12.23	1	\$12.23	\$12.23

Subtotals: \$12.23 \$12.23

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

GUNNISON

miles
35.00
mph

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.74	0.74
Return Time (Hours):	0.74	0.74
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.49	1.49

JOB TIME AND COST

Total job cost: 4.97 Hours

Total job cost: \$1,045