#### **COST SUMMARY WORK**

Task description: **DRMS NOI Bond Estimate Henderson Mine Exploration** Permit Action: Site: **Drilling - Puzzler Target NOI** Estimate Permit/Job#: P2022006 **PROJECT IDENTIFICATION** Task #: 000 Colorado State: Abbreviation: None 6/1/2022 P006-000 Date: Clear Creek County: Filename: User: **PSH** Agency or organization name: DRMS

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Borehole Closure	BOREHOLE	1	16.00	\$1,213
002	Backfill and Grade Access Road and Drill Pad	DOZER	1	29.87	\$6,023
003	Replace Topsoil	DOZER	1	0.19	\$39
004	Revegetation	REVEGE	1	16.00	\$1,971
005	Mob / Demob	MOBILIZE	1	8.00	\$2,072
		SUBTO	OTALS:	70.06	\$11,318

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:2.02Total =\$229Performance bond:1.05Total =\$119Job superintendent:35.03Total =\$2,523

Profit: 10.00 Total =  $\frac{\$1,132}{\text{TOTAL O \& P}}$   $\frac{\$4,002}{\$4,002}$ 

CONTRACT AMOUNT (direct + O & P) =  $\frac{4.302}{$15,320}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: 4.25 Total = \$651

Reclamation management and/or administration: 5.00 \$766

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$5,920

TOTAL BOND AMOUNT (direct + indirect) = \$17,000 (Rounded)

# **BOREHOLE SEALING WORK**

	Task description:	Borehole Clo	osure			
Site:	Henderson Mine Explor Drilling - Puzzler Target	-	Permit Action:	NOI Estimate	Permit	/Job#: <u>P2022006</u>
PROJE	CCT IDENTIFICATION	<u>N</u>				
Task		State:	Colorado		Abbreviation:	None
Da Use		County:	Clear Creek		Filename:	P006-001
US	Agency or organiza	tion name: l	DRMS			

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Exploration Boreholes	SCHRAMM T450WS	4.5	3300	2.00	EA	\$606.54	\$1,213.08

Job Hours: 16.00 Total Cost: \$1,213.00

# **BULLDOZER WORK**

Task description:	Backfi	ll and Gra	de Access R	oad and Drill Pad		
Henderson Mine I  Drilling - Puzzler		Per	mit Action:	NOI Estimate	Permit/Jol	p#: P2022006
PROJECT IDENTI	FICATION	<u>1</u>				
Task #: 002 Date: 6/1/202 User: PSH	2	State: County:	Colorado Clear Creel	K	Abbreviation: Filename:	None P006-002
Agency or or	ganization na	me: DF	MS			
HOURLY EQUIPM	MENT COS	Т				
Basic Machine:	Cat D7R DS 240	<del></del>	II	_		
	Semi-Univers	sal		_		
Attachment:	NA			_		
	1 per day			=		
Data Source:	(CRG)			_		
Cost Breakdown:				<u>Utilization %</u>		
Ownership Cost/Hou	ır:		\$81.02	NA		
Operating Cost/Hou			\$79.33	100		
Ripper ow Cost/Hou			\$0.00	NA		
Ripper op. Cost/Hou			\$0.00	0		
Operator Cost/Hou			\$41.30	NA	<del></del>	
Swell factor: 1	7,735 .000 7,735 LCY		 			
Source of estimated v Source of estimated s factor:		Division Cat Hand		on, Mining & Safety		
HOURLY PRODU	<u>CTION</u>					
Average push distance Unadjusted hourly production:		0 feet ,022.9 LC	Y/hr			
Materials consistency	description:	Loose	stockpile 1.2			
Average push gradient:	-5 %					
Average site altitude:	10,300	feet				
Material weight:	3,300 lb		_			
Weight description:	Decomp	posed rock	- 75% Rock	, 25% Earth		
Job Condition Correction	on Factor			Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5805

Adjusted unit production:
Adjusted fleet production:

593.79 LCY/hr

**593.79** LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.340/LCY

Total job time: 29.87 Hours
Total job cost: \$6,023

# **BULLDOZER WORK**

Task description:	Replace	e Topsoil				
Henderson Mine E  Drilling - Puzzler T		Pe	rmit Action:	NOI Estimate	Permit/Jol	b#: <u>P2022006</u>
PROJECT IDENTI	FICATION					
Task #: 003 Date: 6/1/2022 User: PSH	2	State: County:	Colorado Clear Creek	<b>C</b>	Abbreviation: Filename:	None P006-003
Agency or org	ganization naı	ne: DF	RMS			
HOURLY EQUIPM	ENT COST	Γ				
Basic Machine: (	Cat D7R DS 2	- KR Series	II			
	240					
	Semi-Univers	al		=		
	NA Lagradov			_		
	l per day (CRG)			_		
	(2110)			_		
Cost Breakdown:				Utilization %		
Ownership Cost/Hour	r:		\$81.02	NA		
Operating Cost/Hour			\$79.33	100		
Ripper own Cost/Hou	n		\$0.00	NA		
Ripper op. Cost/Hou	r:		\$0.00	0		
Operator Cost/Hou	r:		\$41.30	NA		
Swell factor: 1.	36 000 36 LCY olume:well	Division Cat Hanc		on, Mining & Safety		
Average push distance	e: 50	) feet				
Unadjusted hourly production:		022.9 LC	Y/hr			
Materials consistency	description:	Loose	stockpile 1.2			
Average push	-5 %					
gradient: Average site altitude:	10,300 f	eet				
•			<del></del>			
Material weight:	1,600 lb				<u></u>	
Weight description:	Top Soil	[				
Job Condition Correction	on Factor			Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.1977

Adjusted unit production:

1,225.13 LCY/hr

Adjusted fleet production:

1225.13 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.165/LCY

Total job time: **0.19** Hours

Total job cost: \$39

# **REVEGETATION WORK**

Task description: Revegetation

**Henderson Mine Exploration** Permit Action:

Site: **Drilling - Puzzler Target** NOI Estimate Permit/Job#: P2022006

## **PROJECT IDENTIFICATION**

Task #:004State:ColoradoAbbreviation:NoneDate:6/1/2022County:Clear CreekFilename:P006-004

User: PSH

Agency or organization name: DRMS

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-20-20, 4-8-12, 10-10-10	2.00	pound	\$0.22	\$0.44
			Total Fertilizer Materials Cost/Acre	\$0.44

**Application** 

Description		Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)		\$644.69
	Total Fertilizer Application Cost/Acre	\$644.69

### **TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$290.40

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alpine Bluegrass	0.22	5.05	\$3.14
Arizona Fescue - Redondo	0.90	10.33	\$8.33
Mountain Brome - Bromar	3.40	5.46	\$12.92
Cinquefoil, Slender	0.08	7.80	\$33.56
Currant, Wax	0.32	1.10	\$18.98
Rocky Mountain Fescue	0.34	5.46	\$2.47
Lupine, Silver	3.48	2.04	\$243.51
Slender Wheatgrass - Native	1.36	4.96	\$6.29
Vetch, American	2.66	1.20	\$265.80
Flax, Lewis Blue	0.90	5.97	\$14.85

Tufted Hairgrass Penstemon, Rocky Mountain Yarrow, Western	0.34	19.51	\$3.75
	0.54	8.46	\$15.93
	0.10	6.08	\$4.18
Yarrow, Western	0.10	6.08	\$4.18

**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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

**Application** 

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

# NURSERY STOCK PLANTING

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

## **JOB TIME AND COST**

 No. of Acres:
 0.88
 Cost /Acre:
 \$1,850.32

 Estimated Failure Rate:
 25%
 Cost /Acre\*:
 \$1,559.92

\*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: \$1,628.28

Reseeding Job Cost: \$343.18

Total Job Cost: \$1,971

16.00

### EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mob / Demob

**Henderson Mine Exploration** Permit Action:

Site: **Drilling - Puzzler Target** NOI Estimate Permit/Job#: P2022006

**PROJECT IDENTIFICATION** 

Task #: 005 State: Colorado Abbreviation: None

Date: 6/1/2022 County: Clear Creek Filename: P006-005
User: PSH

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 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 D7R DS XR Series II	32.01	\$81.02	\$132.49	1	\$213.51	\$132.49	\$250.00

Subtotals: \$213.51 \$132.49 \$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.	\$12.93	1	\$12.93	\$12.93

Subtotals: \$12.93 \$12.93

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DENVER, CO
miles
45.00
mph

Total Non-Roadable Mob/Demob Cost \*
 '\* two round trips with haul rig:
Total Roadable Mob/Demob Cost \*\*
 \*\* one round trip, no haul rig:

\$2,046.04

\$25.86

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	4.00	2.00

### **JOB TIME AND COST**

Total job cost: 8.00 Hours

Total job cost: \$2,072