COST SUMMARY WORK

П	Task description: New	NOI Cost Estimate				
Site:	Aetna Exploration	Permit Action:	New NOI		Permit/Job#	#: P2021017
<u>P</u>]	ROJECT IDENTIFICATIO	<u>N</u>				
	Task #:001	State: Colorado			Abbreviation:	None
	Date: 11/28/2021 User: PSH	County: Clear Creel	K		Filename: _	P017-001
	Agency or organization r	name: DRMS				
<u>T</u> .	ASK LIST (DIRECT COST	<u>'S)</u>				
ask			Form	Fleet	Task	G 4
02	Description		Used LOADER	Size	Hours 3.85	Cost \$305
02	Topsoil 0.75 acres, 2" depth Revegetate 0.75 acres		REVEGE	1	20.00	\$5,516
03 04	Mob / Demob		MOBILIZE	1	4.40	\$892
·	NDIRECT COSTS VERHEAD AND PROFIT:					
	Liability insurance:	2.02			Total = \$13	36
		1.05			Total =)
		14.13				017
	Profit:	10.00		TOTAL	$Total = \frac{\$6}{\$}$	
		CONTR	ACT AMOUNT			895 608
LI	EGAL - ENGINEERING - PROJ	JECT MANAGEMENT:				
	Financial warranty processing	g (legal/related costs):	\$0		Total = \$0	
	Engineering work and/or co		4.25	=	Total =	
	Reclamation management	and/or administration: _	5.00	_	\$4;	30
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL IN	IDIRECT	COST = \$2,	691

TOTAL BOND AMOUNT (direct + indirect) = ___\$9,400 (Rounded)

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Topso	il 0.75 acres, 2"	depth			
e: Aetna Exploratio	on	Permit A	ction: New No	OI	Permit/Jo	ob#: P2021017
PROJECT IDENT	TIFICATION	<u>N</u>				
Task #: 002		State: Colo	orado		Abbreviation:	None
Date: 11/28/	2021	County: Clea	r Creek		Filename:	P017-002
User: PSH						
Agency or o	organization na	nme: DRMS				
HOURLY EQUIP	MENT COS	<u>T</u>				
Basic Machin	e: CAT 246	5C		Horse	power:	73
Attachment			<u> </u>			per day
	-			Data S		(CRG)
Cost Breakdown:						
Cost breakdown.			Utilizatio	on %		
Ownership C	ost/Hour:	\$21.64	NA			
Operating C		\$16.64	100			
Operator C		\$40.71	NA			
Total Unit C	ost/Hour:	\$78.99				
Total Fleet (Cost/Hour:	\$78.99				
MATERIAL QUA	<u>NTITIES</u>					
Initial volume:	195	CC	Y Swe	ell factor:	1.000	
Loose volume:	19					
Com	ce of estimate	d volume: Div	vision of Reclam	ation Minin	r & Safaty	
	of estimated sw		Handbook	iation, within	g & Saicty	
Bource	r estimated sw	en factor. Cat	Handook			
HOURLY PRODU	ICTION					
	<u> </u>					
<u>Loader Cycle Time:</u>		Unadjusted E	Basic Cycle Tim		0.425	minutes
Cvolo Timo I	Zo at ama			maneuver	·	Course
Cycle Time I		ed material 0.02			Factor (min.) 0.020	Source (Cat HB)
		nped by truck 0.02	2		0.020	(Cat HB)
Truck Own		nmon ownership		nders -		
	0.04				-0.040	(Cat HB)
Ope		stant operation -0	0.04		-0.040	(Cat HB)
Dump 7		ninal target 0.00			0.000	(Cat HB)
			t Cycle Time A	_	-0.040	minutes
		Ad	djusted Basic Cy	cle Time:	0.385	minutes
Rolling Resistance – 1	Road Conditio	<u>ns</u>				
F	Iaul: Hard,	smooth, stabilized	d, surfaced, wate	ered, maintain	ned 2.0	
		smooth, stabilized				
		,				
Haul and Return Time	<u>2</u>					
	Length	Grade Res.	Rolling	Total Res.		Source
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source

Haul Route:	100	0.00	2.00	2.00	0.0493	(Cat HB)
Return Route:	100	0.00	2.00	2.00	0.0493	(Cat HB)

Total Travel Time: 0.0986 minutes
Total Cycle Time: 0.4836 minutes

Load Bucket Capacity

Rated Capacity: 0.53 LCY (heaped)

Bucket Fill Factor: 0.975 Loose material - mixed moist aggregates (95-100%) 0.975

Adjusted Capacity: 0.52 LCY

Job Condition Correction Factors

Site Altitude: 8550 feet

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

Unadjusted Hourly Unit Production: 64.11 LCY/Hour Adjusted Hourly Unit Production: 50.55 LCY/Hour Adjusted Hourly Fleet Production: 50.55 LCY/Hour

JOB TIME AND COST

Fleet size:	1 Loader(s)		Total job time:	3.86	Hours
Unit cost:	\$1.562	/LCY	Total job cost:	\$305	

REVEGETATION WORK

Aetna Exploration	Perr	mit Action: New	NOI		Permit/Job#	: P2021017
ROJECT IDENTIFICAT	<u> ION</u>					
Task #: 003	State:	Colorado		Ab	breviation:	None
Date: 11/28/2021	County:	Clear Creek		_	Filename:	P017-003
User: PSH	_					
Agency or organization	on name: DRM	MS				
CRTILIZING						
aterials						
		Units /	4:		4 / 177 *4	G 444
Description		Acre	Unit		st / Unit	Cost /Acre
0-20-20, 4-8-12, 10-10-10		1.00	pound	\$0.2	22	\$0.22
				To	tal Fertilizer	
				10	Materials	
					Cost/Acre	\$0.22
	1 90.13 0100)	Tota	l Foutilizan	A malicatio	on Coat/A and	Cost /Acre \$644.69
Description Hand spread (MEANS 32 0 LLING Description	1 90.13 0100)	Tota	l Fertilizer A	Applicatio	on Cost/Acre	
Hand spread (MEANS 32 0 LLING	1 90.13 0100)	Tota	l Fertilizer A	Applicatio	on Cost/Acre	\$644.69 \$644.69
Hand spread (MEANS 32 0 LLING Description	1 90.13 0100)	Tota				\$644.69 \$644.69 Cost /Acre \$175.31
Hand spread (MEANS 32 0 LLING Description	1 90.13 0100)	Tota			on Cost/Acre	\$644.69 \$644.69 Cost /Acre
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota				\$644.69 \$644.69 Cost /Acre \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota		otal Tillir		\$644.69 \$644.69 Cost /Acre \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota		otal Tillin	ng Cost/Acre	\$644.69 \$644.69 Cost /Acre \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota		otal Tillin Rate – PLS	Seeds per SQ.	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota		otal Tillin	ng Cost/Acre	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG}	1 90.13 0100)	Tota		otal Tillin Rate – PLS LBS /	Seeds per SQ.	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31
Hand spread (MEANS 32 0 LLING Description Subsoiling, light {(DMG} EDING Seed Mix		Tota		otal Tillin Rate – PLS LBS / Acre	Seeds per SQ. FT	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31
LLING Description Subsoiling, light {(DMG)} EEDING Seed Mix Arizona Fescue - Redondo		Tota		Rate – PLS LBS / Acre 8.00	Seeds per SQ. FT	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31 Cost /Acre
LLING Description Subsoiling, light {(DMG} Seed Mix Arizona Fescue - Redondo Pubescent Wheatgrass - Lur Milk Vetch, Cicer - Lutana	12	Tota		Rate – PLS LBS / Acre 8.00 20.00	Seeds per SQ. FT 91.83 41.32	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31 Cost /Acre \$74.00 \$68.00
LLING Description Subsoiling, light {(DMG}) Seed Mix Arizona Fescue - Redondo Pubescent Wheatgrass - Lur	12	Tota		Rate – PLS LBS / Acre 8.00 20.00 8.00	Seeds per SQ. FT 91.83 41.32 26.63	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31 Cost /Acre \$74.00 \$68.00 \$65.60
LLING Description Subsoiling, light {(DMG}) Seed Mix Arizona Fescue - Redondo Pubescent Wheatgrass - Lur Milk Vetch, Cicer - Lutana Western Wheatgrass - Barto	12	Tota		Rate – PLS LBS / Acre 8.00 20.00 8.00 20.00	Seeds per SQ. FT 91.83 41.32 26.63 50.51	\$644.69 \$644.69 Cost /Acre \$175.31 \$175.31 Cost /Acre \$74.00 \$68.00 \$65.60 \$140.00

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
Jute mesh #2, stapled (MEANS 31 25 14.16 0300)	1.00	ACRE	\$1,258.40	\$1,258.40
Total Mulch Materials Cost/Acre				\$1,258.40

Application

Description		Cost /Acre
Jute mesh #2 (MEANS 31 25 14.16 0300)		\$2,081.20
	Total Mulch Application Cost/Acre	\$2,081.20

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 0.75
 Cost /Acre:
 \$4,961.64

 Estimated Failure Rate:
 50%
 Cost /Acre*:
 \$4,786.33

*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: \$3,721.23

Reseeding Job Cost: \$1,794.87

Total Job Cost: \$5,516

20.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b / Demob				
te: Aetna Exploration	Permi	t Action: New N	OI	Permit/Job	p#: P2021017
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 004 Date: 11/28/2021 User: PSH		olorado Ilear Creek	A	bbreviation: Filename:	None P017-004
Agency or organization	n name: DRMS	S			
Truck Tractor Desc		ERIC ON-HIGHW	Cost Data	Source: C	l per day CRG Data DIESEL POWERED,
Truck Trailer Desc	ription:		NG GOOSENECK RAILER (25T, 50T		K EQUIPMENT
Cost Breakdown:			(201,001	,111,12 1001)	
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	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 246C	3.58	\$21.64	\$68.37	1	\$90.01	\$68.37	\$250.00

\$90.01 \$68.37 \$250.00 Subtotals:

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet

Subtotals: \$0.00 \$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GEORGETOWN, CO
miles
2.50
mph

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

\$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.20	0.20

JOB TIME AND COST

Total job time: _	4.40	Hours
Total job cost:	\$892	