COST SUMMARY WORK

Т	ask description: Cost	Summary of Reclamati	on Tasks			
Site:	Ensminger Pit #2	Permit Action:	2019 AM01		Permit/J	ob#: <u>M2010036</u>
ы		N				
<u>P1</u>	ROJECT IDENTIFICATIO					
	Task #: 000	State: Colorado		/	Abbreviation:	
	Date: 3/15/2019 User: ERR	County: Phillips			Filename:	M036-000
	Agency or organization r	name: DRMS				
	rigency of organization i					
<u>T</u> A	ASK LIST (DIRECT COST	<u>'S)</u>				
Task			Form	Fleet	Task	
	Description		Used	Size	Hours	Cost
001	Backfilling and Grading		DOZER	1	95.00	\$20,840
002	Replace Topsoil		DOZER	1	50.44	\$11,064
003	Revegetate the Site		REVEGE	1	20.00	\$15,591
004	Mobilization/Demobilization	1	MOBILIZE	1	4.11	\$2,158
			<u>SUBTO</u>	TALS:	169.5	55 \$49,653
IN	DIRECT COSTS					
	VERHEAD AND PROFIT:					
	Liability insurance:	2.02			Total =	\$1,003
	2	1.05				\$521
		0.00				\$0
	1	10.00				\$4,965
				TOTAL	LO&P =	\$6,490
		CONTE	RACT AMOUNT	(direct +	O & P) =	\$56,143
LE	GAL - ENGINEERING - PROJ	IECT MANAGEMENT:				
	Financial warranty processin	g (legal/related costs).	\$0		Total =	\$0
	Engineering work and/or co		0.00	-		\$0 \$0
	Reclamation management	1 1	5.00	-		\$2,807
	Ŭ	CONTINGENCY:	0.00	-		\$0
		continuenci.	0.00		10m1 –	ψν
			TOTAL IN	IDIRECT	COST =	\$9,297
		TOTAL BO	OND AMOUNT (direct + i	ndirect) =	\$58,950
		тот	AL BOND AMO	UNT (ro	unded) =	\$59,000

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BULLDOZER WORK

Task description:	Backfilling an	d Grading			
Ensminger Pit #2	I	Permit Action:	2019 AM01	Permit/Job#:	M2010036
PROJECT IDENTIE	FICATION				
Task #: 001	Stat	e: Colorado		Abbreviation:	None
Date: $3/15/2019$		-		Filename:	00
User: ERR		<u> </u>			
Agency or orga	anization name:	DRMS			
HOURLY EQUIPM	<u>ENT COST</u>				
Basic Machine: Ca	at D8T - 8SU				
Horsepower: 31					
71	emi-Universal				
	shank ripper				
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$93.62	NA		
Operating Cost/Hour:		\$73.35	100		
Ripper own. Cost/Hour:		\$8.93	NA		
Ripper op. Cost/Hour:		\$1.95	25		
		\$41.52	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$219.36 \$219.36	<i>Q</i> 1102			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$219.36 \$219.36				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3	\$219.36 \$219.36 TITIES 020				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>17</u> , Swell factor: <u>1.3</u>	\$219.36 \$219.36 TITIES 020 30 637 LCY ume:Applic		burden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volume	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: Applic Cat Ha	cation (6" Overb			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated swe	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: Applic Cat Ha CTION 200 feet	cation (6" Overb andbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: Applic Cat Ha CTION 200 feet 491.9 LC	cation (6" Overb andbook	ourden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3. Loose volume: 22, Source of estimated volt Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly product	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: Applic Cat Ha CTION 200 feet 491.9 LC	cation (6" Overb andbook	ourden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient:	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: Applic Cat Ha Cat H	cation (6" Overb andbook	ourden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude:	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: <u>Applic</u> Cat Ha Cat Ha Cat Ha Cat Ha 200 feet 491.9 LC escription: <u>Part</u> <u>-5 %</u> 4,069 feet 2,900 lbs/LCY	cation (6" Overb andbook	 ourden on 21.1 acres) stockpile 1.1		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$219.36 \$219.36 TITIES 020 30 637 LCY ume: <u>Applic</u> Cat Ha Cat Ha Cat Ha Cat Ha 200 feet 491.9 LC escription: Part <u>-5 %</u> 4,069 feet 2,900 lbs/LCY Decomposed ro n Factor	cation (6" Overb andbook CY/hr ly consolidated	ourden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Operator	$\begin{array}{r} \$219.36 \\ \$219.36 \\ \hline \\ \$219.36 \\ \hline \\ \hline \\ 11711ES \\ 020 \\ 30 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 1171 \\ \hline \\ 020 \\ \hline \\ 1171 \\ \hline \\ 020 \\ \hline \\ 021 \\ \hline \\ 020 \\ \hline \\ 021 \\ \hline 021 $	cation (6" Overb andbook CY/hr ly consolidated 	burden on 21.1 acres)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17,1 Swell factor: 1.33 Loose volume: 22, Source of estimated volt Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency details Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Operator	$\begin{array}{c} \$219.36 \\ \$219.36 \\ \hline \\ \$219.36 \\ \hline \\ \hline \\ 11711ES \\ 020 \\ 30 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 \\ \hline \\ 020 \\ \hline 020 \\ \hline \\ 020 \\ \hline 02$	cation (6" Overb andbook CY/hr ly consolidated 	burden on 21.1 acres) burden on 21.1 acres) stockpile 1.1 50% Earth Source (AVG.) (CAT HB)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 17, Swell factor: 1.3 Loose volume: 22, Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing m	$\begin{array}{c} \$219.36 \\ \$219.36 \\ \hline \\ \$219.36 \\ \hline \\ \hline \\ 11711ES \\ 020 \\ 30 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 LCY \\ \hline \\ 020 \\ \hline \\ 637 \\ \hline \\ 020 \\ \hline 020 \\ \hline \\ 020 \\ \hline 02$	cation (6" Overb andbook CY/hr ly consolidated 	burden on 21.1 acres)		

Task # 001

(CAT HB)
(CAT HB)
(CAT HB)
(PAT)

Adjusted unit production:	238.28 LCY/hr
Adjusted fleet production:	238.28 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.921/LCY

Total job time:	95.00 Hours
Total job cost:	\$20,840

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BULLDOZER WORK

Task description:	Replace Topsoil				
Ensminger Pit #2	Per	mit Action:	2019 AM01	Permit/Job#:	M2010036
PROJECT IDENT	IFICATION				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: $3/15/201$		Phillips		Filename:	00
User: ERR	<u> </u>	ps		i nonunio.	00
	ganization name: DI	RMS			
HOURLY EQUIPM	<u>MENT COST</u>				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper				
Shift Basis:	l per day				
Data Source:	(CRG)				
Cost Breakdown:					
COSt DICardowii.			Utilization %		
Ownership Cost/Hou	r:	\$93.62	NA		
Operating Cost/Hou		\$73.35	100		
Ripper own. Cost/Hou		\$8.93	NA		
Ripper op. Cost/Hou		\$1.95	25		
Operator Cost/Hou		\$41.52	NA		
operator costinou	···	¢.1102	11/1		
Swell factor: 1.	3,490 230				
Loose volume: 1	6,593 LCY				
Source of estimated vo	olume: Applicati	on (5" on 18	.4 acres) -1 acre for creek	tbed	
Source of estimated sv					
HOURLY PRODU	CTION				
Average push distance		/1			
Unadjusted hourly pro	duction: 491.9 LCY	/hr			
Materials consistency	description: Partly	consolidated	stockpile 1.1		
Average push gradient	: -5 %				
Average site altitude:	4,069 feet				
-					
Material weight:	2,100 lbs/LCY				
Weight description:	Earth - Loam				
Job Condition Correct	ion Factor		Source		
		.750	(AVG.)		
Material cons		.100	(CAT HB)		
Dozing		.000	(GEN.)		
		.000	(AVG.)		
		.830	(1 SHIFT/DAY)	
300 011	0	.050		/	

Task # 002

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6688	

Adjusted unit production:	328.98 LCY/hr
Adjusted fleet production:	328.98 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.667/LCY

Total job time:	50.44 Hours
Total job cost:	\$11,064

REVEGETATION WORK

Task descrij	otion:	Revegetate the Site			
ite: Hansel P	it #1	Permit Action:	2019 AM01	Permit/Job	#: <u>M2010036</u>
PROJECT Task #:	IDENTIFIC	CATION State: Colorado		Abbreviation:	None
Date: User:	3/15/2019 ERR	County: Phillips		Filename:	M036-003

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	121.20	pound	\$0.34	\$41.21
Triple superphosphate, 0-46-0	86.90	pound	\$0.44	\$38.24
			Total Fertilizer Materials Cost/Acre	\$79.44

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$34.72
	Total Fertilizer Application Cost/Acre	\$34.72

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$193.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Kaw	2.20	6.57	\$25.72
Indiangrass - Cheyenne	1.00	3.05	\$17.61
Switchgrass - Nebraska 28	2.00	17.86	\$22.02
Alfalfa - Ladak (inoculated)	0.80	3.86	\$2.19
Western Wheatgrass - Arriba	1.60	4.04	\$13.25
Totals Seed Mix	7.60	35.37	\$80.79

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

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:	20.1	Cost /Acre:	\$620.55
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$620.55
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LLING,SEEDING	
Initial Job Cost:	\$12,473.06			
Reseeding Job Cost:	\$3,118.26			
Total Job Cost:	\$15,591			
Job Hours:	20.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Mo	bilization/Demob	ilization				
Ensminger	Pit #2	Permit	Action:2019	AM01]	Permit/Job#:	M2010036
PROJECT ID	ENTIFICATI	<u>ON</u>					
Task #: (004	State: Co	olorado		Abbre	viation: No	one
Date: 3	3/15/2019	County: Ph	illips		Fi	lename: M)36-004
User: I	ERR	•	1				
Agenc	y or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per	day
				(Cost Data Sour	· · · · ·	
Tm	uck Tractor Desc	rintion: CENE		ω Λντρι			EL POWERED,
11	uck Tractor Desc	IIPUOII. GENE			(2ND HALF,		EL FOWERED,
Tr	uck Trailer Desc	ription: G	ENERIC FOLI			,	MIDMENT
11	uck Hallel Dese				(25T, 50T, AN		
				INAILLK	(231, 301, AI	(D 1001)	
Cost Breakdown	<u>1:</u>						
Available Rig	Capacities	0-25 Tons	26-50 Tons	51+	- Tons		
Owners	hip Cost/Hour:	\$16.63	\$18.37		22.33		
Operat	ing Cost/Hour:	\$44.38	\$46.13	\$5	50.07		
	tor Cost/Hour:	\$27.66	\$27.66	\$2	27.66		
Hel	per Cost/Hour:	\$0.00	\$25.39	\$2	25.39		
Total U	nit Cost/Hour:	\$88.67	\$117.55	\$1	25.45		
NON ROADA	BLE EQUIP	MENT:					
N 1'	XX7 · 1 //		11 1D			Return Trip	DOT Permit
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Cost/hr/ flee	
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/		
C-4 DOT OCT	(TONS)	¢102.55	t	1	fleet	¢105.45	¢250.00
Cat D8T - 8SU	53.08	\$102.55	\$125.45 \$88.67	1	\$228.00 \$104.21	\$125.45 \$88.67	\$250.00 \$250.00
Dmill/Droad+	25.00			1 1	D104.71	J00.0/	
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	ψ00.07		\$10 		\$250.00
Seeder with	25.00	\$15.54	\$66.0 <i>1</i>	Subtotals:	\$332.21	\$214.12	

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$74.99	1	\$74.99	\$74.99
		Subtotals:	\$74.99	\$74.99

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	YUMA 35.00 45.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,182.06	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$116.65	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.78	0.78
Return Time (Hours):	0.78	0.78
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.06	1.56

JOB TIME AND COST

Total job time: **4.11** Hours

Total job cost: \$2,299