

MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:	MINE/PROSPECTING ID#:	MINERAL: COUNTY:
T.H.E. Aggregate Source	M-1977-193	Granite, granite gnei: Fremont
		and gravel
INSPECTION TYPE:	WEATHER: Clear	INSP. DATE: INSP. TIME:
Surety-Related Inspection		September 14, 2023 10:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:
Holcim - WCR, Inc.	Lu Toxvard & Kurt Thurmann	112c - Construction Regular Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Surety Related	Complete Bond	\$913,998.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Timothy Cazier, P.E.	Thing alla	September 15, 2023

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>N</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>N</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP <u>N</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION <u>N</u>	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted in conjunction with two other Succession of Operator (SO) inspections (M-1977-376 and M-2007-014). The Permittee (Holcim-WCR) was represented by Lu Toxvard and Kurt Thurmann who were present during the inspection. The Aggregate Source Pit is accessed from US Hwy 50, just west of the intersection with Tunnel Drive approximately 1.5 miles west of Cañon City. This is a 112c stone and gravel mine. It was operating at the time of the inspection.

As the site was last inspected on May 17, 2023, a complete inspection was not necessary. The succession of operation application was called complete for the purpose of filing on 9/8/2023. A draft bond estimate was generated prior to this inspection and provided to Mr. Thurmann during the inspection. A copy is attached to this report. I explained the bond requires a separate accounting between the private land and the federal land on the west for bond tracking purposes by the Bureau of Land Management (BLM).

Site representatives explained their solution to mining the ridge, which was the primary focus of the May inspection. The plan is to mine the ridge from east to west and develop a catch bench along the base of the advancing highwall to capture rock fall due to blasting the narrow ridge.

Inspection Contact Address Kurt Thurmann Holcim - WCR, Inc. 1687 Cole Blvd, Suite 300 Golden, CO 80401

Enclosure: Draft Bond Estimate with Federal vs Private Land breakout

ec: DRMS file Ray Ogle, BLM

M-1977-193 SO-2 Bond Split: Private vs Federal

Private/Federal Split Calc.

						:ks 110 - 190 551 - 555	Tas	ks 210 - 505
			so	D-2 Combined		O-2 Private		O-2 Federal
Total Direct cost:			\$	1,206,646.00	\$	989,128.00	\$	217,518.00
Liability insurance: Performance bond:		2.02%	\$	24,374.25	\$	19,980.39	\$	4,393.86
		1.05%	\$	12,669.78	\$	10,385.84	\$	2,283.94
Job superintendent:		556.765 Hrs @ \$65.08	\$	36,234.27	\$	29,705.12	\$	6,529.15
hours split:	F					456.44		100.325
Profit:		10%	\$	120,664.60	\$	98,912.80	\$	21,751.80
TOTAL O&P:			\$	193,942.90	\$	158,984.14	\$	34,958.75
CONTRACT AMOUNT (dire	ect + O 8	έ P)	\$	1,400,588.90	\$ 1	L,148,112.14	\$	252,476.75
Financial warranty processing (legal/related costs):	\$	500.00	\$	500.00	\$	500.00	\$	-
Engineering work and/or contract/bid preparation: Reclamation management and/or		4.25%	\$	59,525.03	\$	48,794.77	\$	10,730.26
administration:		5.00%	\$	70,029.44	\$	57,405.61	\$	12,623.84
		TOTAL INDIRECT COST =	\$	323,997.37	\$	265,684.52	\$	58,312.85
TOTAL B	OND AN	1OUNT (direct + indirect) =	\$	1,530,643.37	\$1	,254,812.52	\$	275,830.85

DRAFT – Pre-SO-2 Inspection COST SUMMARY WORK

]	Task description:	Cost Summa	ry			
Site:	T.H.E. Aggregate Sou	rce	Permit Action:	SO-2	Permit/Job#:	M1977193

PROJECT IDENTIFICATION

Task #:	000	State:	Colorado	Abbreviation:	None
Date:	9/13/2023	County:	Fremont	Filename:	M193-000
User:	TC1				

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Tarl		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
110	Phase 1- Replace Topsoil (12" over 123.3 ac)	SCRAPER1	1	392.04	\$257,897
120	Phase 1- Rough Grade Topsoil (10% of Task 110 area)	GRADER	1	8.94	\$1,421
130	Phase 1- Rip Pit Floor	RIPPER	1	198.91	\$52,141
140	Phase 1- Reseed Dist Area (pit flr, borrow area & rd easm't)	REVEGE	1	123.00	\$518,642
150	Phase 1- Bench Ditch Maintenance	DOZERGRA DER	1	5.00	\$1,028
170	Permanent Structure Demolition	DEMOLISH	1	80.00	\$37,557
190	Mob/Demob	MOBILIZE	1	1.40	\$3,473
210	Phase 2 BLM- Replace Topsoil (12" over 14.3 ac)	SCRAPER1	1	45.47	\$29,911
220	Phase 2 BLM- Rough Grade Topsoil (10% of Task 210 area)	GRADER	1	1.04	\$165
230	Phase 2 BLM- Rip Pit Floor	RIPPER	1	23.07	\$6,047
240	Phase 2 BLM- Reseed	REVEGE	1	14.00	\$60,151
250	Phase 2 BLM- Bench Ditch Maintenance	DOZERGRA DER	1	2.00	\$411
310	Phase 3 BLM- Replace Topsoil (12" over 7.8 ac)	SCRAPER1	1	24.80	\$16,315
320	Phase 3 BLM- Rough Grade Topsoil (10% of Task 310 area)	GRADER	1	0.56	\$90
330	Phase 3 BLM- Rip Pit Floor	RIPPER	1	12.58	\$3,298
340	Phase 3 BLM- Reseed	REVEGE	1	8.00	\$32,809
350	Phase 3 BLM- Bench Ditch Maintenance	DOZERGRA DER	1	3.45	\$709
410	Phase 4 BLM- Replace Topsoil (12" over 7.1 ac)	SCRAPER1	1	22.57	\$14,850
420	Phase 4 BLM- Rough Grade Topsoil (10% of Task 410 area)	GRADER	1	0.51	\$82
430	Phase 4 BLM- Rip Pit Floor	RIPPER	1	11.45	\$3,002
440	Phase 4 BLM- Reseed	REVEGE	1	7.00	\$29,865
450	Phase 4 BLM- Bench Ditch Maintenance	DOZERGRA DER	1	3.22	\$662
501	Phase 5 BLM- Replace Topsoil (12" over 2.7 ac)	SCRAPER1	1	8.58	\$5,647
502	Phase 5 BLM- Rough Grade Topsoil (10% of Task 501 area)	GRADER	1	0.51	\$82
503	Phase 5 BLM- Rip Pit Floor	RIPPER	1	4.35	\$1,142
504	Phase 5 BLM- Reseed	REVEGE	1	3.00	\$11,357
505	Phase 5 BLM- Bench Ditch Maintenance	DOZERGRA DER	1	4.49	\$923

554 555	Phase 5 Tezak- Reseed Phase 5 Tezak- Bench Ditch Maintenance	REVEGE DOZERGRA DER SUBTO		17.00 2.42 1113.53	\$72,770 \$497 \$1,206,646
551	Phase 5 Tezak- Replace Topsoil (12" over 17.3 ac)Phase 5 Tezak- Rough Grade (10% of Task 551 area)Phase 5 Tezak- Rip Pit Floor	SCRAPER1	1	55.01	\$36,186
552		GRADER	1	1.25	\$200
553		RIPPER	1	27.91	\$7,316

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$24,374			
Performance bond:	1.05		Total =	\$12,670			
Job superintendent:	556.77		Total =	\$36,234			
Profit:	10.00		Total =	\$120,665			
			TOTAL O & $P =$	\$193,943			
	CONT	RACT AMOUNT	(direct + O & P) =	\$1,400,589			
LEGAL - ENGINEERING - PROJECT MANAGEMENT:							
Financial warranty process	\$500						
Engineering work and/or o	4.25	Total =	\$59,525				
Reclamation management	nt and/or administration:	5.00		\$70,029			

CONTINGENCY: 0.00

Total =	\$0

TOTAL INDIRECT COST = \$323,997

TOTAL BOND AMOUNT (direct + indirect) = ____\$1,530,643

Page 1 of 2

SCRAPER TEAM WORK

Site: T.H.E. Aggregat	e Source	Permit Action:	SO-2	F	Permit/Job#: <u>M1</u>	977193
PROJECT IDENT	TIFICATION					
Task #: 110		ate: Colorado			viation: None	
Date: $9/13/2$ User: TC1	2023 Cou	nty: Fremont		F1	lename: <u>110</u>	
	 	55175				
Agency or o	organization name:	DRMS				
HOURLY EQUIP	<u>MENT</u>		COST	Shift basis: <u>1 per</u>	<u>day</u>	
			ent Description			
		craper: Cat 631	G			
Suppo	ا- rt Equipment -Load	Dozer:NAArea:NA				
Suppo	-Dump-Dump					
Road Ma	intenance – Motor C					
	-Water	Truck: NA				
Cost Breakdown:	Scraper Work	Team	Support Equ	inment	Maintenanc	e Fauinme
Cost Di Cardown.	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water T
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$657.83	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$657.83	Support:	\$0.00	Maint:	\$0.0
Total work team cost	/hour: <u>\$657.83</u>					
MATERIAL QUA	NTITIES					
Initial volume:		CCY	Swell fac	tor: 1.125		
Loose volume:		LCY	Swen he	1.125		
Sou	rce of estimated vol	ume: TR10 an	plication			
	of estimated swell fa					
						-
HOURLY PRODU	UCTION					
			Scraper I	<u>Bowl (volume) Ba</u>	<u>asis:</u>	
Material weight:	2,650 lbs/LCY		Struck	Volume: 24.00	L	CY
Material description:	Decomposed rock	x - 25% Rock,		Volume: 34.00		CY
Rated Payload:	75% Earth		A	Value 20.00	Ţ	CV
Kated Pavioad:	81,600 pounds		Average	Volume: 29.00	, L	CY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour

Unadjusted unit production/hour: <u>687.75</u> LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	392.04	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$257,897	

<u>0.80</u> Minutes

0.70 Minutes

Site Altitude: 5600 feet

MOTOR GRADER WORK

Task description:	Phase 1- Rough Grade Te	opsoil (10% of Tas	sk 110 area)	
T.H.E. Aggregate S	ource Permit Actio	n: <u>SO-2</u>	Permit/Job#:	M1977193
PROJECT IDENTI	FICATION			
Task #: 120	State: Colora	do	Abbreviation:	None
Date: 9/13/202			Filename:	120
User: TC1	<u></u>			
A	DDMS			
Agency or org	ganization name: DRMS			
HOURLY EQUIPM	IENT COST			
Basic Machi	ne: CAT 12M		Horsepower:	158
Ripper Attachme	ent:			oer day
			Data Source: (0	CRG)
Cost Breakdown:				
COSt DICardowii.			Utilization %	
Ow	nership Cost/Hour:	\$74.98	NA	
	erating Cost/Hour:		100	
	nership Cost/Hour:	¢0,00	NA	
Ripper Op	erating Cost/Hour:	\$0.00		
0	perator Cost/Hour:	\$28.56	NA	
Tot	al Unit Cost/Hour:	\$158.80		
Tat	al Fleet Cost/Hour:	\$158.80		
	ea to be graded or ripped: <u>12.</u> rce of estimated acreage: TR			acres
HOURLY PRODUC	TION			
noonerinopot	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mph) - 1.5	
	Selected Blade Angle:	30	degrees	
	Effective Blade Length:	10.40	feet	
	h of blade overlap per pass:	2.00	feet	
	g or ripping width per pass:	8.40	feet	
Unadjust	ed Hourly Unit Production:	1.5273	acres/hour	
Job Condition Correction	on Factors	Si	te Altitude: <u>5600</u> feet	
	Sou			
Altitude Adj:	1.00 (CAT			
Job Efficiency:	0.90 (1sh/d			
Net Correction:	0.9000 multip	oner		
	Adjusted Hourly Unit Production		acres/Hour	
	Adjusted Hourly Fleet Production	on: 1.3745	acres/Hour	
JOB TIME AND CO				
Fleet size:	1 Grader(s)	Total job time	:: 8.95	Hours
Unit cost:\$1	15.53 per acre	Total job cost	\$1,421	_
	·	5	· · · · · · · · · · · · · · · · · · ·	

BULLDOZER RIPPING WORK

	Task description:	Phase 1- Rip Pit Floor			
Site:	T.H.E. Aggreg	gate Source Permit Action	on: <u>SO-2</u>	Permit/Job	o#: <u>M1977193</u>
	PROJECT IDE	ENTIFICATION			
	Task #: 130	State: Colora	ado	Abbreviation	: None
		3/2023 County: Fremo		Filename	
	User: TC	1			
	Agency	or organization name: <u>DRMS</u>			
	HOURLY EQU	UIPMENT COST			
	Basic I	Machine: Cat D7R DS XR Series	I	Horsepower:	240
	Ripper Atta		<u></u>		1 per day
	11			Data Source:	(CRG)
	Cost Breakdown:				
				Utilization %	
		Ownership Cost/Hour:	\$114.76	NA	
		Operating Cost/Hour:	\$91.98	100	
		er Ownership Cost/Hour:	\$9.06	NA	
	Кірр	oer Operating Cost/Hour: Operator Cost/Hour:	\$5.02 \$41.30	100 NA	
		Total Unit Cost/Hour:	\$262.12	INA	
			· · · ·		
		Total Fleet Cost/Hour:	\$262.12		
	MATERIAL Q	<u>UANTITIES</u>	Selected estimating 1	method: Area	
	Alternate Method	ls:	0		
g_::			NIA	BCY	NIA
Seismic: Area:	NA 123.30	Bank Volum acres Rip Depth (f			NA BCY or CCY
nica.	125.50				
		Source of estimated quantity:	CIO Application		
	HOURLY PRO	<u>DDUCTION</u>			
	Seismic:				
		Seismic Velocity:	NA	feet/second	
	Area:				
		Average Ripping Depth:	2.45	feet/pass	
		Average Ripping Width:	6.50	feet/pass	
		Average Ripping Length:	400.00	feet/pass	
		Average Dozer Speed:	88.00	feet/minute	
		Average Maneuver Time: Production per unit area:	0.25 0.747	minutes/pass acres/hour	
			0.747		
	Job Condition Co	prrection Factors			
	Una	adjusted Hourly Unit Production:	0.747	Acres/hr	
		Site Altitude:	5,600	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Product	ion: 0.62	Acres/hr	
		Adjusted Hourly Fleet Product	ion: 0.62	Acres/hr	
	JOB TIME AN	<u>ND COST</u>			
	Fleet size:	1 Grader(s)	Total job time	. 198.92	Hours

REVEGETATION WORK

e: <u>T.H.E. A</u>	ggregate Sour	ce Per	rmit Action:	SO-2	Permit/Jol	o#: <u>M1977193</u>
PROJECT	IDENTIFIC	ATION				
Task #:	140	State:	Colorado		Abbreviation:	None
Date:	9/13/2023	County:	Fremont		Filename:	140
User:	TC1					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description		Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)		\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mix	15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

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: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acr <u>e*:</u> LLING, SEEDING,	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$172,880.78 \$518,642		

DOZERGRADER WORK

T.H.E. Aggregate	Source	Permit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDENT	IFICATION				
Task #: 150	S	tate: Colorado		Abbreviation:	None
Date: <u>9/13/202</u>	23 Cou	unty: Fremont		Filename:	150
User: TC1					
Agency or or	rganization name:	DRMS			
HOURLY EQUIP	MENT COST				
	Cat D5K2 XL - 51	Р			
Horsepower:					
Blade Type:					
	NA				
	1 per day				
Data Source:					
Cost Breakdown:			I		
		¢100 51	Utilization %		
Ownership Cost/Hou		\$102.71	NA		
Operating Cost/Hou		\$61.54	100		
Ripper own. Cost/Hou		\$0.00	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou	ır:	\$41.30	NA		
	\$205.55				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$205.55				

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	5.00 Hours
Total job cost:	\$1,028

DEMOLITION WORK

7	Task description:	Permanent Struct	ure Demolition		
Site:	T.H.E. Aggregate Source	e Permi	Action: SO-2	Permit/J	ob#: <u>M1977193</u>
<u>'ROJE</u>	CT IDENTIFICATION	Ī			
Task #:	170	State: Cold	rado	Abbreviation:	None
Date:	9/13/2023	County: Fren	nont	Filename:	170
User:	TC1				

Location adjustment: 94.10 %

T (10)

UNIT COSTS

Structure or Item **Demolition Menu** Unit **Total Cost** Dimensions Quantity Unit Selection Description Cost Bldg. (SN) demo./off-site 9,600.00 Existing Office -30'x40'x8' CF \$0.38 \$3.661.44 disposal in approved single story landfill - Max. 15 mile haul Floor, concrete, demolition Existing Office Floor 30'x40' 1,200.00 SF \$1.20 \$1,437.84 only, average reinforcing -6 in. thick Office Addition - 2-30'x40'x16' Bldg. (MN) demo./off-site 19,200.00 CF \$0.48 \$9,279.36 disposal in approved story portion ONLY landfill - Max. 15 mile haul Office Addition Mech. Bldg. (SN) demo./off-site 680.00 8.5'x10'x8' CF \$0.38 \$259.35 disposal in approved Room landfill - Max. 15 mile haul Office Addition Vault 9.5'x10'x8' Bldg. (SC) demo./off-site 760.00 CF \$0.64 \$485.41 disposal in approved (conc.) landfill - Max. 15 mile haul Office Addition Floor 30'x40'+18'x10' 1,380.00 Floor, concrete, demolition SF \$1.20 \$1,653.52 only, average reinforcing -6 in. thick Water Tank Stor. bldg Bldg. (SN) demo./off-site 5,600.00 CF \$0.38 35'x20'x8' \$2,135.84 #1 (dirt floor) disposal in approved landfill - Max. 15 mile haul Water Tank Stor. bldg Bldg. (SN) demo./off-site 4,200.00 CF \$0.38 \$1,601.88 35'x15'x8' #2 (dirt floor) disposal in approved landfill - Max. 15 mile haul 1000'x30' Pavement, bituminous, SY Remove Pavement 3,333.00 \$5.02 \$16,731.66 demolition only - 3 in. from Cañon City prop. thick Truck Scale Pit Floors 70'x10' each Demo. and on-site disposal 1.400.00 SF \$1.26 \$1.760.08 in existing pit, 6 in. thick -(2)Max. 10,000 ft. haul Demo. and on-site disposal Truck Scale Pit 70'x20' 180.00 LF \$5.03 \$905.17 in existing pit, 1.0 ft. x 2 ft. Foundation - Max. 10,000 ft. haul

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$39,911.55	location):	\$37,556.77

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo						
e: T.H.E. Aggrega	ate Source	Permit	Action: <u>SO-2</u>			Permit/Job#: <u>M</u>	1977193
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 190		State: Co	olorado		Abbro	eviation: None	
	/2023		emont			ilename: 190	
User: TC1							
Agency of	organization	name: DRMS					
EQUIPMENT T	RANSPOR'	<u>T RIG COST</u>					
					Shift ba	F	
				(Cost Data Sou	rce: <u>CRG Da</u>	ta
Truck	Tractor Desci	ription: GENE	RIC ON-HIGHV	WAY TRI	UCK TRACTO	OR, 6X4, DIESEI	POWERED.
					(2ND HALF,		li e n Liub,
Truck	Trailer Desci	ription: G	ENERIC FOLD				IPMENT
Truck	Trailer Desci	ription: G		ING GOO	SENECK, DI	ROP DECK EQU	IPMENT
Truck	Trailer Desci	ription: Gl		ING GOO		ROP DECK EQU	IPMENT
Truck <u>Cost Breakdown:</u>	Trailer Desci	ription: Gl		ING GOO	SENECK, DI	ROP DECK EQU	IPMENT
Cost Breakdown:		0-25 Tons		ING GOO TRAILER	SENECK, DI	ROP DECK EQU	IPMENT
	pacities		<u> </u>	ING GOO TRAILER	DSENECK, DF (25T, 50T, AN	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca	pacities Cost/Hour:	0-25 Tons	26-50 Tons	ING GOO TRAILER 51- \$4	DSENECK, DF (25T, 50T, A) + Tons	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating	pacities Cost/Hour:	0-25 Tons \$20.26	26-50 Tons \$36.04	ING GOO TRAILER 51- \$4 \$5	DSENECK, DF (25T, 50T, A) + Tons 47.05	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	pacities Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	ING GOO TRAILER 51- \$4 \$3 \$3	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	ING GOO TRAILER 51- \$4 \$5 \$5 \$5 \$5 \$5	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	ING GOO TRAILER 51- \$4 \$5 \$5 \$5 \$5 \$5	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	ING GOO TRAILER 51- \$4 \$5 \$5 \$5 \$5 \$5	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABI	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	ING GOC TRAILER 51- \$4 \$2 \$2 \$2 \$2 \$2 \$2 \$1 \$1	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95	ROP DECK EQU ND 100T)	IPMENT DOT Permit
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 IENT: Owner ship	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	ING GOC TRAILER	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip	ROP DECK EQU	
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABI	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	ING GOC TRAILER 51- \$4 \$2 \$2 \$2 \$2 \$2 \$2 \$1 \$1	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/	ROP DECK EQU ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine Description	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 1 Owner ship Cost/hr/ unit	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	ING GOC TRAILER	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 IENT: Owner ship	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	ING GOC TRAILER	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$517.62	ROP DECK EQU ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine Description Cat 631G	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 52.50	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 1 Owner ship Cost/hr/ unit \$341.67	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	ING GOC TRAILER	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95	DOT Permit Cost/ fleet \$250.00
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine Description Cat 631G Cat 07R DS XR	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit (TONS) 52.50	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 1 Owner ship Cost/hr/ unit \$341.67	Z6-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	ING GOC TRAILER	DSENECK, DF (25T, 50T, A) + Tons 47.05 82.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$517.62	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95	DOT Permit Cost/ fleet \$250.00

Subtotals: \$1,132.82 \$498.70 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$14.81	1	\$14.81	\$14.81
Power Mulcher (Bowie LD-90)	\$57.02	1	\$57.02	\$57.02
		Subtotals:	\$71.83	\$71.83

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CAÑON CITY	
Total one-way travel distance:	3.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$3,459.12	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$14.37	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.10 0.10	Roadable Equipment 0.10 0.10
Loading Time (Hours):	0.10	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.70	0.20

JOB TIME AND COST

Total job time: **1.40** Hours

Total job cost: **\$3,473**

Task # 210

Page 1 of 2

SCRAPER TEAM WORK

Site: T.H.E. Aggregate	Source	Permit Action:	SO-2	Perm	nit/Job#: <u>M197</u>	7193
PROJECT IDENT	TIFICATION					
Task #: 210	S	tate: Colorado		Abbrev	viation: None	
Date: $9/13/20$	023 Cou	inty: Fremont		File	ename: 210	
User: <u>TC1</u>						
Agency or c	organization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	hift basis: <u>1 per da</u>	ay	
		г ·				
. <u></u>	-Se	craper: Cat 631	nt Description			
	=	Dozer: NA				
Suppor	rt Equipment -Load Dump-					
Road Ma	intenance – Motor C					
	-Water					
Cost Breakdown:	Scraper Wor	k Teom	Support Equi	amant	Maintenance	Fauinm
Cost Breakdown.	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$657.83	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$657.83	Support:	\$0.00	Maint:	\$0
Total work team cost	/hour: <u>\$657.83</u>					
MATERIAL QUA	<u>NTITIES</u>					
Initial volume:	23,071	CCY	Swell fact	tor: 1.125		
Loose volume:	25,955	LCY				
	rce of estimated vol					
Source of	of estimated swell fa	actor: Cat Hand	lbook			
HOURLY PRODU	UCTION					
			Scraper R	owl (volume) Basi	s.	
Matarial1 (2 650 1ha/I CV		-			\mathbf{cv}
Material weight: Material description:	2,650 lbs/LCY Decomposed rock	x - 25% Rock,		Volume: 24.00 Volume: 34.00		CY CY
Rated Payload:	75% Earth	,	A	Valumai 20.00	т.	cv
Kaled Pavload:	81,600 pounds		Average	Volume: 29.00	L	CY

<u>0.80</u> Minutes

0.70 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour
Unadjusted unit production/hours 697.75 I CV/Hour		

Unadjusted unit production/hour: <u>687.75</u> LCY/Hour Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	45.47	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$29,911	

MOTOR GRADER WORK

Task description:	Phase 2 BLM- Rough	Grade Topsoil (10%	of Task 210 area)	
T.H.E. Aggregate So	Permit A	ction: SO-2	Permit/Jo	b#: <u>M1977193</u>
PROJECT IDENTI	FICATION			
Task #: 220	State: Col	orado	Abbreviation	n: None
Date: 9/13/2023		mont	Filenam	
User: TC1				
Agency or org	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machin	ne: CAT 12M		Horsepower:	158
Ripper Attachme				1 per day
11			Data Source:	(CRG)
Cost Breakdown:				
			Utilization %	
Owr	ership Cost/Hour:		NA	
1	erating Cost/Hour:	\$55.26	100	
	ership Cost/Hour:	\$0.00	NA	
	erating Cost/Hour:	\$0.00		
-	erator Cost/Hour:	\$28.56	NA	
Tota	al Unit Cost/Hour:	\$158.80		
MATERIAL QUAN Total Are		1.43		acres
Sour	ce of estimated acreage:	TR10 application		
HOURLY PRODUC	TION			
	Average Grader Speed:	1.50	mph	
	Selected Application:	Finish	grading (0-2.5 mph) - 1.5	5
	Selected Blade Angle:	30	degrees	
	Effective Blade Length:	10.40	feet	
	of blade overlap per pass:	2.00	feet	
	or ripping width per pass:	8.40	feet	
Unadjuste	ed Hourly Unit Production:	1.5273	acres/hour	
Job Condition Correction	<u>n Factors</u>	S	ite Altitude: <u>5600</u> feet	
	1	Source		
Altitude Adj:		AT HB)		
Job Efficiency:		h/d, fav.)		
Net Correction:	0.9000 mu	ltiplier		
	Adjusted Hourly Unit Produ	uction: 1.3745	acres/Hour	
	Adjusted Hourly Fleet Produ		acres/Hour	
-	,			
JOB TIME AND CO				
Fleet size:	1 Grader(s)	Total job time	e: <u>1.04</u>	Hours
Unit cost: \$1	15.53 per acre	Total job cos	t: \$165	
0111 COSt. 31	per acre	i otal job cos	i. <u>3103</u>	

BULLDOZER RIPPING WORK

	Task description:	Phase 2 BLM- Rip Pit Floo	or			
Site	T.H.E. Aggre	gate Source Permit Action	: <u>SO-2</u>	Permit/Job	o#: <u>M197</u>	7193
	PROJECT ID	ENTIFICATION				
	Task #: 230) State: Colorad	0	Abbreviation	: None	
		3/2023 County: Fremont		Filename	: 230	
	User: <u>TC</u>	1				
	Agency	or organization name: DRMS				
	HOURLY EQ	UIPMENT COST				
	Basic	Machine: Cat D7R DS XR Series II		Horsepower:	240	
	Ripper Att	achment: 3-Shank Ripper			1 per day	
				Data Source:	(CRG)	
	Cost Breakdown	<u>.</u>				
				Utilization %		
		Ownership Cost/Hour:	\$114.76 \$91.98	<u>NA</u>		
	Rinn	Operating Cost/Hour: er Ownership Cost/Hour:	\$91.98	100 NA		
		ber Operating Cost/Hour:	\$5.02	100		
	nap	Operator Cost/Hour:	\$41.30	NA		
		Total Unit Cost/Hour:	\$262.12			
		Total Fleet Cost/Hour: \$2	262.12			
			.02.12			
	MATERIAL (<u>DUANTITIES</u> S	elected estimating r	method: Area		
	Alternate Method	<u>ls:</u>				
Seismic:	NA	Bank Volume:	NA	BCY	NA	
Area:	14.30	acres Rip Depth (ft):	1.00	Volume: 23,071		BCY or CCY
		Source of estimated quantity: TR1	0 Application			
		· · ·	11			
	HOURLY PR	<u>SDUCTION</u>				
	Seismic:		214			
		Seismic Velocity:	NA	feet/second		
	Area:					
		Average Ripping Depth:	1.00	feet/pass		
		Average Ripping Width:	<u>6.50</u> 400.00	feet/pass		
		Average Ripping Length: Average Dozer Speed:	88.00	feet/pass feet/minute		
		Average Maneuver Time:	0.25	minutes/pass		
		Production per unit area:	0.747	acres/hour		
	Job Condition Co	·				
		adjusted Hourly Unit Production:	0.747	Acres/hr		
		Site Altitude:	5,600	feet		
		Altitude Adj:	1.00	(CAT HB)		
		Job Efficiency:	0.83	(1 shift/day)		
		Net Correction:	0.83	multiplier		
		Adjusted Hourly Unit Production	n: 0.62	Acres/hr		
		Adjusted Hourly Fleet Production		Acres/hr		
	JOB TIME AN		-			
	Fleet size:	1 Grader(s)	Total job time	: 23.07	F	lours
	_		·		·	
	Unit cost:	\$422.878 Per acre	Total job cost	: \$6,047		

REVEGETATION WORK

Task description: Phase		Phase 2 BLM- Re	seed			
Site: T.H.E. Aggregate Source		rce Permit Action: SO-2		SO-2	Permit/Job	o#: <u>M1977193</u>
PROJECT Task #:	IDENTIFIC 240		Colorado		Abbreviation:	None
Date: User:	9/13/2023 TC1		Fremont		Filename:	240
Age	ency or organiz	ation name: DRM	4S			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description		Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)		\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
Т	Cotal Fertilizer Application Cost/Acre	\$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mix	15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	14.3	Cost /Acre:	\$2,804.23	
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$2,804.23	_
*Selected Replanti	ng Work Items:	FERTILIZING, TI	LLING, SEEDING,		
		MULCHING			
Initial Job Cost:	\$40,100.49				
Reseeding Job Cost:	\$20,050.24				
Total Job Cost:	\$60,151				
Job Hours:	14.00				

DOZERGRADER WORK

T.H.E. Aggregate	e Source	Per	mit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDEN	TIFICATI	<u>ON</u>				
Task #: 250		State:	Colorado		Abbreviation:	None
Date: $9/13/20$ User: TC1	023	County:	Fremont		Filename:	250
Agency or o	organization	name: DF	RMS			
HOURLY EQUIE	PMENT CO	OST				
Basic Machine:	Cat D5K2					
Horsepower:						
Blade Type:						
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:						
Cost Breakdown:				1		
			¢100 51	<u>Utilization %</u>		
Ownership Cost/Ho			\$102.71	NA		
Operating Cost/Ho			\$61.54	100		
Ripper own. Cost/Ho			\$0.00	NA		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	our:		\$41.30	NA		
Total unit Cost/Hour	: \$205.	.55				
	ır: \$205 .	E E				

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	2.00 Hours
Total job cost:	\$411

Task # 310

Page 1 of 2

SCRAPER TEAM WORK

Site: T.H.E. Aggregate	e Source	Permit Action:	SO-2	Perr	nit/Job#: <u>M197</u>	7193
PROJECT IDEN	TIFICATION					
Task #: 310	S	tate: Colorado		Abbrey	viation: None	
Date: 9/13/2		inty: Fremont			ename: 310	
User: TC1						
Agency or	organization name:	DRMS				
HOURLY EQUI	PMFNT		COSTSI	nift basis: <u>1 per d</u>	97/	
<u>HOURET EQUI</u>				int basis. <u>1 per u</u>	<u>ay</u>	
	C		ent Description			
		craper: Cat 631 Dozer: NA	0			
Suppo	ort Equipment -Load	l Area: NA				
	-Dump Dump	Area: NA Brader: NA				
Road Ma	-Water					
Cost Breakdown:	Scraper Wor		Support Equip		Maintenance	Equipm Wate
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	wate
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$657.83	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$657.83	Support:	\$0.00	Maint:	\$
Total work team cos	t/hour: <u>\$657.83</u>					
MATEDIAL OU	ANTITIES					
MATERIAL QUA						
Initial volume:		CCY	Swell fact	or: <u>1.125</u>		
Loose volume:	14,157	LCY				
	rce of estimated vo					
Source	of estimated swell f	actor: Cat Hand	IDOOK			
HOURLY PROD	UCTION					
			Scraper Ro	owl (volume) Basi	is.	
Motorial wai-14	2.650 lba/I CV		-			CY
Material weight: Material description:	2,650 lbs/LCY Decomposed rock	x - 25% Rock.	Heaped	Volume: <u>24.00</u> Volume: <u>34.00</u>		C Y CY
pitoni	75% Earth	,				-
Rated Payload: Payload Capacity:			Average	Volume: 29.00 Capacity: 29.00		CY CY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 560	00 feet
--------------------	---------

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour
Unadjusted unit production/hour: 687.75 LCY/Hour		

Unadjusted unit production/hour: <u>687.75</u> LCY/Hour Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	24.80	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$16,315	

<u>0.80</u> Minutes

0.70 Minutes

MOTOR GRADER WORK

Task description:	Phase 3 BLM- Rough G	rade Topsoil (10%	of Task 310 area)	
T.H.E. Aggregate S	ource Permit Acti	on: SO-2	Permit/Job	#: <u>M1977193</u>
PROJECT IDENTI	FICATION			
Task #: 320	State: Color	ado	Abbreviation	None
Date: 9/13/202.	3 County: Fremo	ont	Filename	320
User: TC1				
Agency or org	anization name: DRMS			
HOURLY EQUIPM	IENT COST			
Basic Machi	ne: CAT 12M		Horsepower:	158
Ripper Attachme				per day
11			Data Source:	(CRG)
Cost Breakdown:				<u> </u>
Cost Breakdown:		1	Utilization %	
Own	nership Cost/Hour:	\$74.98	NA	
	erating Cost/Hour:	\$55.26	100	
	nership Cost/Hour:	¢0.00	NA	
Ripper Op	erating Cost/Hour:	\$0.00		
0	perator Cost/Hour:	\$28.56	NA	
Tot	al Unit Cost/Hour:	\$158.80		
Tot	al Fleet Cost/Hour:	\$158.80		
	a to be graded or ripped: <u>0.</u> rce of estimated acreage: TI	R10 application		acres
HOURLY PRODUC				
	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mph) - 1.5	
	Selected Blade Angle:	30	degrees	
	Effective Blade Length:	10.40	feet	
	n of blade overlap per pass:	2.00	feet	
	g or ripping width per pass:	8.40	feet	
Unadjust Job Condition Correctio	ed Hourly Unit Production:	1.5273	acres/hour	
Job Condition Correction		urce	te Altitude: <u>5600</u> feet	
Altitude Adj:	1	T HB)		
Job Efficiency:		d, fav.)		
Net Correction:	0.9000 multi			
	Adjusted Hourly Unit Product	ion: 1.3745	acres/Hour	
	Adjusted Hourly Fleet Product		acres/Hour	
JOB TIME AND CO	<u>DST</u>			
Fleet size:	1 Grader(s)	Total job time	. 0.57	Hours
Unit cost:\$1	15.53 per acre	Total job cost	: \$90	
		•		

BULLDOZER RIPPING WORK

	Task description:	Phase 3 BLM- Rip Pit Floo	or			
Site	:	gate Source Permit Action:	: SO-2	Permit/J	ob#: <u>M19</u>	977193
	PROJECT ID	ENTIFICATION				
	Task #: 330 Date: 9/1 User: TC	3/2023 County: Fremont		Abbreviati		2
	Agency	or organization name: DRMS				
	HOURLY EO	UIPMENT COST				
		Machine: Cat D7R DS XR Series II		Horsepower: Shift Basis: Data Source:	240 1 per day (CRG)	
	Cost Breakdown					
		Ownership Cost/Hour:	\$114.76 \$91.98	Utilization % NA		
	Ripp	Operating Cost/Hour: er Ownership Cost/Hour:	\$91.98	100 NA		
		per Operating Cost/Hour:	\$5.02	100		
		Operator Cost/Hour:	\$41.30	NA		
		Total Unit Cost/Hour:	\$262.12			
		Total Fleet Cost/Hour: \$2	62.12			
	MATERIAL Q	DUANTITIES Se	elected estimating r	nethod: <u>Area</u>		
	Alternate Method	<u>ls:</u>				
Seismic:	NA	Bank Volume:	NA	BCY	NA	
Area:	7.80	acres Rip Depth (ft):		Volume: 12,584		BCY or CC
		Source of estimated quantity: TR10) Application			
	HOURLY PRO	ODUCTION				
	Seismic:	Seismic Velocity:	NA	feet/second		
	Area:	·				
	<u>mea.</u>	Average Ripping Depth:	1.00	feet/pass		
		Average Ripping Width:	6.50	feet/pass		
		Average Ripping Length:	400.00	feet/pass		
		Average Dozer Speed:	<u>88.00</u> 0.25	feet/minute		
		Average Maneuver Time: Production per unit area:	0.23	minutes/pass acres/hour		
	Job Condition Co		0.717			
			0 747	Acres/hr		
	Un	adjusted Hourly Unit Production:	0.747			
		Site Altitude:	5,600	feet		
		Altitude Adj:	1.00 0.83	(CAT HB)		
		Job Efficiency: Net Correction:	0.83	(1 shift/day) multiplier		
		Adjusted Hourly Unit Productior Adjusted Hourly Fleet Productior	n: 0.62	Acres/hr Acres/hr		
	JOB TIME AN					
	Fleet size:	<u>1</u> Grader(s)	Total job time	12.58		Hours
	Unit cost:	\$422.878 Per acre	Total job cost	\$3,298		

REVEGETATION WORK

Task descrip	otion:	Phase 3 BLM- Res	eed		
Site: T.H.E. A	ggregate Sour	rce Permi	it Action: SO-2	Permit/Job	o#: M1977193
PROJECT Task #:	IDENTIFIC 340		Colorado	Abbreviation:	None
Date: User:	9/13/2023 TC1	County: I	Fremont	Filename:	340
Age	ency or organiz	zation name: DRM	S		

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description		Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)		\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
Т	Cotal Fertilizer Application Cost/Acre	\$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mix	15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	7.8	Cost /Acre:	\$2,804.23
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$2,804.23
*Selected Replanting	ng Work Items:	FERTILIZING, TI	LLING, SEEDING,	
	-	MULCHING		
Initial Job Cost:	\$21,872.99			
Reseeding Job Cost:	\$10,936.50			
Total Job Cost:	\$32,809			
Job Hours:	8.00			

DOZERGRADER WORK

T.H.E. Aggregate So	Per Per	mit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDENTIF	FICATION				
Task #:350	State:	Colorado		Abbreviation:	None
Date: <u>9/13/2023</u>	County:	Fremont		Filename:	350
User: TC1					
Agency or orga	anization name: <u>DF</u>	RMS			
HOURLY EQUIPM	<u>ENT COST</u>				
	at D5K2 XL - 5P				
Horsepower:					
Blade Type:	A				
Attachment: <u>NA</u> Shift Basis: 1					
Data Source:	per day				
Cost Breakdown:			TT('1'- 4' 0/		
Ownership Cost/Hour:		\$102.71	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$61.54	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour:	\$205.55				
	\$205.55				

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	3.45 Hours
Total job cost:	\$709

Task # 410

Page 1 of 2

SCRAPER TEAM WORK

Site: T.H.E. Aggregate	Source P	ermit Action:	SO-2	Perr	nit/Job#: <u>M197</u>	7193
PROJECT IDEN	FIFICATION					
Task #: 410	State	: Colorado		Abbrey	viation: None	
Date: 9/13/20	023 County				ename: 410	
User: TC1						
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	hift basis: <u>1 per d</u>	ay	
			ent Description			
	-Scraj -Doz		G			
Suppo	rt Equipment -Load A					
	-Dump Ar	rea: NA				
Road Ma	intenance – Motor Grad					
	-Water Tru	CK: NA				
Cost Breakdown:	Scraper Work T	eam	Support Equip	oment	Maintenance	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Wate
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$657.83	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$657.83	Support:	\$0.00	Maint:	\$
Total work team cost	/hour: <u>\$657.83</u>					
MATERIAL QUA	NTITIES					
Initial volume:	11,454	CCY	Swell fact	or: 1.125		
Loose volume:	12,886	LCY	Swell lact	.01. 1.125		
	rce of estimated volum	e: TR10 ap	nlication			
	of estimated swell facto					
HOURLY PROD	UCTION					
			Scraper Bo	owl (volume) Basi	is:	
Material weight:	2,650 lbs/LCY		Struck	Volume: <u>24.00</u>	I	CY
Material description:	Decomposed rock - 2	25% Rock,	Heaped		I	.CY
Rated Payload:	75% Earth 81,600 pounds		Average	Volume: 29.00	т	.CY
Payload Capacity:			-	Capacity: 29.00		CY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude:	5600 feet	
----------------	-----------	--

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour
Unadjusted unit production/hour: 687.75 LCY/Hour		

Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	22.57	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$14,850	

<u>0.80</u> Minutes

0.70 Minutes

MOTOR GRADER WORK

Task description:	Phase 4 BLM- Rough Gra	de Topsoil (10%)	of Task 410 area)	
T.H.E. Aggregate So	Permit Action	n: <u>SO-2</u>	Permit	/Job#: <u>M1977193</u>
<u>PROJECT IDENTII</u>	FICATION			
Task #: 420	State: Colorad	lo	Abbrevia	tion: None
Date: 9/13/2023	County: Fremon	t	Filena	ame: 420
User: TC1				
A generation or org	anization name: DRMS			
Agency of orga	anization name. <u>DRWS</u>			
HOURLY EQUIPM	ENT COST			
Basic Machin	e: CAT 12M		Horsepower:	158
Ripper Attachmer			Shift Basis:	1 per day
11			Data Source:	(CRG)
C (D 11				
Cost Breakdown:			Utilization %	
Our	ership Cost/Hour:	\$74.98	NA	
	ership Cost/Hour: erating Cost/Hour:	\$55.26	<u>100</u>	
	ership Cost/Hour:	#0.00	NA	
	erating Cost/Hour:	\$0.00	1111	
	perator Cost/Hour:	\$28.56	NA	
-	l Unit Cost/Hour:	\$158.80		
MATERIAL QUAN Total Area	TITIES a to be graded or ripped: <u>0.71</u>			acres
Sour	ce of estimated acreage: <u>TR1</u>	0 application		
HOURLY PRODUC	TION			
	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mph) -	1.5
	Selected Blade Angle:	30	degrees	
*****	Effective Blade Length:	10.40	feet	
	of blade overlap per pass:	2.00	feet	
0 0	or ripping width per pass:	8.40	feet	
0	d Hourly Unit Production:	1.5273	acres/hour	
Job Condition Correctio	<u>n Factors</u> Sour		e Altitude: <u>5600</u> feet	
Altitude Adj:	1.00 (CAT			
Job Efficiency:	1.00 (CA1 0.90 (1sh/d,			
Net Correction:	0.9000 multipl			
			/	
	Adjusted Hourly Unit Productio		acres/Hour	
ŀ	Adjusted Hourly Fleet Productio	n: 1.3745	acres/Hour	
JOB TIME AND CC)ST			
Fleet size:	1 Grader(s)	Total job time:	0.52	Hours
		10tal job tille.	0.54	110015
Unit cost: \$11	15.53 per acre	Total job cost:	\$82	
	I	5		

BULLDOZER RIPPING WORK

	Task description	on: <u>P</u>	hase 4 BLM- Rip P	it Floor				
Site	:	regate Source	Permit	Action:	SO-2	Per	mit/Job#: <u>N</u>	A1977193
	PROJECT I	DENTIFICA	TION					
	Date:	430 9/13/2023 TC1		olorado remont				one 30
	Ager	cy or organizat	ion name: DRMS	5				
	HOURLY E	QUIPMENT	COST					
			Cat D7R DS XR Se 3-Shank Ripper	ries II	_	Horsepower:	240 1 per c (CRC	lay
	Cost Breakdov	vn:						
		Ownership	o Cost/Hour:		\$114.76	Utilization % NA		
	D	Operating pper Ownership	g Cost/Hour:		\$91.98 \$9.06	100 NA		
		ipper Ownership			\$9.00	<u>100</u>		
			r Cost/Hour:		\$41.30	NA		
		Total Uni	t Cost/Hour:		\$262.12			
		Total Flee	t Cost/Hour:	\$262	.12			
	MATERIAI	QUANTITI	ES	Sele	cted estimating	method: Area		
	Alternate Metl	<u>nods:</u>						
Seismic:	NA		Bank Vo	olume:	NA	BCY	NA	
Area:	7.10	acres	Rip Dep	th (ft):	1.00	Volume: 11	,455	BCY or CCY
		Source of e	estimated quantity:	TR10 A	Application			
	HOURLY P	RODUCTIO	<u>N</u>					
	Seismic:		Seismic Velocity		NA	feet/secor	d	
	A		Seisinie Veloeity	•	INA		ia.	
	<u>Area:</u>	Ave	erage Ripping Depth	:	1.00	feet/pass		
		Ave	erage Ripping Width	:	6.50	feet/pass		
			age Ripping Length		400.00	feet/pass		
			verage Dozer Speed		88.00	feet/minu		
			age Maneuver Time duction per unit area		0.25 0.747	minutes/p acres/hou		
	Job Condition	Correction Fac	•	·			-	
			urly Unit Production		0.747	Acres/hr		
		enadjusted 1100	Site Altitude		5,600	feet		
			Altitude Adj	-	1.00	(CAT HE	3)	
			Job Efficiency		0.83	(1 shift/da	/	
			Net Correction		0.83	multiplier		
			ted Hourly Unit Pro ed Hourly Fleet Pro		0.62 0.62	Acres/hr Acres/hr		
	JOB TIME	AND COST						
	Fleet size:	1	Grader(s)		Total job time	e: <u>11</u>	.45	Hours
	Unit cost:	\$422.878	Per acre		Total job cost	t:\$3,	002	

REVEGETATION WORK

T	ask descrip	otion:	Phase 4 BLM- Reseed			
Site:	T.H.E. A	ggregate Sour	Permit Action:	SO-2	Permit/Job	o#: M1977193
<u>PR</u>	ROJECT	IDENTIFIC	ATION			
	Task #:	440	State: Colorado		Abbreviation:	None
	Date:	9/13/2023	County: Fremont		Filename:	440
	User:	TC1				
	Age	ency or organiz	ration name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description	Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)	\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application	n Cost/Acre \$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mi	x 15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

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: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acre*: LLING, SEEDING,	
Initial Job Cost:	\$19,910.03		
Reseeding Job Cost:	\$9,955.02		
Total Job Cost:	\$29,865		
Job Hours:	7.00		

DOZERGRADER WORK

T.H.E. Aggregate S	ource Per	mit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDENTI	FICATION				
Task #:450	State:	Colorado		Abbreviation:	None
Date: <u>9/13/202</u> User: <u>TC1</u>	3 County:	Fremont		Filename:	450
Agency or org	ganization name: D	RMS			
HOURLY EQUIPM	IENT COST				
	Cat D5K2 XL - 5P				
Blade Type:					
· · ·	JA				
	per day				
Data Source:	* *				
Cost Breakdown:			1		
a 11 a 177			Utilization %		
Ownership Cost/Hour		\$102.71	NA		
Operating Cost/Hour		\$61.54	100		
Ripper own. Cost/Hour		\$0.00	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour	·	\$41.30	NA		
Total unit Cost/Hour:	\$205.55				
Total Fleet Cost/Hour:	\$205.55				

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	3.22 Hours
Total job cost:	\$662

Task # 501

Page 1 of 2

SCRAPER TEAM WORK

Site: T.H.E. Aggregate	Source Pe	ermit Action:	SO-2	Peri	nit/Job#: <u>M197</u>	77193
PROJECT IDENT	TIFICATION					
Task #: 501	State:	Colorado		1 h h and	viation: None	
Task #: 501 Date: 9/13/20					ename: 501	
User: TC1	County.					
Agency or o	rganization name: <u> </u>	ORMS				
HOURLY EQUIP	MENT		COSTSI	nift basis: 1 per d	ay	
		Equipme	ent Description			
	-Scrap					
	-Doz					
Suppor	rt Equipment -Load Ard Dump Ard-					
Road Mai	Intenance – Motor Grad					
	-Water True	ck: NA				
Cost Breakdown:	Scraper Work Te	am	Support Equip	oment	Maintenance	e Equipm
<u>Cost Di cundovni</u>	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Wate
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	NA	
Ripper op. cost/hour:	NA	NA	NA	NA	NA	
Operator cost/hour:	\$30.90	NA	NA	NA	NA	
Unit Subtotals:	\$657.83	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$657.83	Support:	\$0.00	Maint:	\$
Total work team cost	/hour: <u>\$657.83</u>					
MATERIAL QUA	NTITIES					
Initial volume:	4,356	CCY	Swell fact	or: 1.125		
Loose volume:	4,901	LCY				
	ce of estimated volume					
Source o	f estimated swell facto	r: Cat Hand	lbook			
HOURLY PRODU	UCTION					
			Scraper Bo	owl (volume) Bas	is:	
Material weight:	2,650 lbs/LCY		Struck	Volume: 24.00	Ι	.CY
Material description:	Decomposed rock - 2	5% Rock,	Heaped			.CY
	75% Earth		A	V-1	Ŧ	CV
Rated Payload: Payload Capacity:	81,600 pounds		Average Adjusted C			LCY LCY
						(Y

<u>0.80</u> Minutes

0.70 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour
Unadjusted unit production/hour: 687.75 I CV/Hour		

Unadjusted unit production/hour: <u>687.75</u> LCY/Hour Optimal Number of Scrapers per push dozer: _____

Fleet size:	1	Team(s)	Total job time:	8.58	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$5,647	

MOTOR GRADER WORK

Task description:	Phase 5 BLM- Rough Gra	de Topsoil (10%)	of Task 501 area)	
T.H.E. Aggregate So	Permit Action	n: <u>SO-2</u>	Permit/Job	o#: <u>M1977193</u>
<u>PROJECT IDENTII</u>	FICATION			
Task #: 502	State: Colorad	lo	Abbreviation	: None
Date: 9/13/2023	County: Fremon	t	Filename	: 502
User: TC1				
A generation or org	anization name: DRMS			
Agency of orga				
HOURLY EQUIPM	ENT COST			
Basic Machin	e: CAT 12M		Horsepower:	158
Ripper Attachmen				l per day
			Data Source:	(CRG)
G . D 11				
Cost Breakdown:		1		
0		¢74.00	Utilization %	
	ership Cost/Hour:		<u>NA</u>	
	erating Cost/Hour:	\$55.26 \$0.00	<u>100</u>	
	ership Cost/Hour:	\$0.00	NA	
	erating Cost/Hour: perator Cost/Hour:	\$28.56	NA	
-	Il Unit Cost/Hour:	\$158.80		
100		\$150.00		
Sour	ce of estimated acreage: TR1	0 application		
HOURLY PRODUC		1.50		
	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mph) - 1.5	
	Selected Blade Angle: Effective Blade Length:	30 10.40	degrees feet	
Width	of blade overlap per pass:	2.00	feet	
	or ripping width per pass:	8.40	feet	
6 6	d Hourly Unit Production:	1.5273	acres/hour	
Job Condition Correctio			e Altitude: 5600 feet	
	Sour			
Altitude Adj:	1.00 (CAT			
Job Efficiency:	0.90 (1sh/d,			
Net Correction:	0.9000 multipl			
			a amag/I I	
	Adjusted Hourly Unit Productio		acres/Hour acres/Hour	
I	Adjusted Hourly Fleet Productio	II. 1.3/43	acres/nour	
JOB TIME AND CC)ST			
		Total ich time-	0.52	Цолжа
Fleet size:	1 Grader(s)	Total job time:	. 0.52	Hours
Unit cost: \$11	5.53 per acre	Total job cost:	\$82	
φΠ	Per une	1 5 4 1 3 0 0 0 5 1	- ψ υ #	

BULLDOZER RIPPING WORK

	Task description:	Phase 5 BLM- Rip Pit Floo)r			
Site	:	gate Source Permit Action	: <u>SO-2</u>	Permit/Jo	ob#: <u>M19</u>	077193
	PROJECT ID	ENTIFICATION				
	Task #: 503 Date: 9/1 User: TC	3/2023 County: Fremont		Abbreviatio		;
	Agency	or organization name: <u>DRMS</u>				
	HOURLY EQ	UIPMENT COST				
		Machine: Cat D7R DS XR Series II		Horsepower: Shift Basis: Data Source:	240 1 per day (CRG)	
	Cost Breakdown:					
	Rippo	Ownership Cost/Hour: Operating Cost/Hour: er Ownership Cost/Hour:	\$114.76 \$91.98 \$9.06	Utilization % NA 100 NA		
		per Operating Cost/Hour:	\$5.02	100		
		Operator Cost/Hour: Total Unit Cost/Hour:	\$41.30 \$262.12	NA		
			262.12			
	MATERIAL Q		elected estimating n	nethod: Area		
	Alternate Method	l <u>s:</u>				
Seismic: Area:	NA 2.70	Bank Volume: acres Rip Depth (ft):		BCY Volume: 4,356	NA	BCY or CC
Alta.	2.70			volume. <u>4,550</u>		
		Source of estimated quantity: <u>TR1</u>	0 Application			
	HOURLY PRO	<u>DDUCTION</u>				
	<u>Seismic:</u>	Seismic Velocity:	NA	feet/second		
	A roo.		1.11			
	<u>Area:</u>	Average Ripping Depth:	1.00	feet/pass		
		Average Ripping Width:	6.50	feet/pass		
		Average Ripping Length:	400.00	feet/pass		
		Average Dozer Speed:	88.00	feet/minute		
		Average Maneuver Time: Production per unit area:	0.25 0.747	minutes/pass acres/hour		
	Ish Canditian Ca	·	0.747			
	Job Condition Co		0.747	A (1		
	Un	adjusted Hourly Unit Production:	0.747	Acres/hr		
		Site Altitude:	5,600	feet		
		Altitude Adj:	1.00	(CAT HB)		
		Job Efficiency: Net Correction:	0.83	(1 shift/day) multiplier		
		Adjusted Hourly Unit Production Adjusted Hourly Fleet Production	n: 0.62	Acres/hr Acres/hr		
	JOB TIME AN	<u>ND COST</u>				
	Fleet size:	1 Grader(s)	Total job time:	4.36		Hours
	Unit cost:	\$422.878 Per acre	Total job cost:	\$1,142		

REVEGETATION WORK

Task descr	iption:	Phase 5 BLM- Reseed		
Site: T.H.E. A	Aggregate Sou	rce Permit Action:	SO-2	Permit/Job#: <u>M1977193</u>
PROJECT	<u>IDENTIFIC</u>	CATION		
Task #:	504	State: Colorado		Abbreviation: None
Date:	9/13/2023	County: Fremont		Filename: 504
User:	TC1			
		zation name:DRMS		

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description	Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)	\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application	n Cost/Acre \$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mix	15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

NURSERY STOCK PLANTING

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

	No. of Acres:	2.7	Cost /Acre:	\$2,804.23
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$2,804.23
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LLING,SEEDING,MU	
	-	LCHING		
Initial Job Cost:	\$7,571.42			
Reseeding Job Cost:	\$3,785.71			
Total Job Cost:	\$11,357			
Job Hours:	3.00			

DOZERGRADER WORK

T.H.E. Aggregate	Source	Per	mit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDENT	TIFICATIC	<u>DN</u>				
Task #: 505		State:	Colorado		Abbreviation:	None
Date: 9/13/20 User: TC1	023	County:	Fremont		Filename:	505
Agency or o	organization r	name: DF	RMS			
μοιφί ν έριμα	MENT CO	CT.				
HOURLY EQUIP						
	Cat D5K2 X					
Horsepower: _ Blade Type:						
	NA					
	1 per day					
Data Source:	i poi any					
Cost Breakdown:						
			¢100 51	<u>Utilization %</u>		
Ownership Cost/Ho			\$102.71	NA		
Operating Cost/Ho Ripper own. Cost/Ho			<u>\$61.54</u> \$0.00	100 NA		
Ripper own. Cost/Ho			\$0.00	0		
Operator Cost/Ho			\$0.00	NA		
1			4	1111		
Total unit Cost/Hour: Total Fleet Cost/Hour	4					
	r: \$205.5	5				

U L

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	4.49 Hours
Total job cost:	\$923

Task # 551

Page 1 of 2

SCRAPER TEAM WORK

''Utilization-machine: 100 NA NA NA NA ''Wutilization-machine: 100 NA NA NA NA Ownership cost/hour: \$\$341.67 NA NA NA NA Operating cost/hour: \$\$285.26 NA NA NA NA ''Wutilization-ripper: NA NA NA NA NA ''Wutilization-ripper: NA NA NA NA NA ''Wutilization-ripper: NA NA NA NA NA Ripper own.cost/hour: NA NA NA NA NA Ripper own.cost/hour: S30.90 NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA Unit Subtals: \$657.83 NA NA NA NA Number of Units: 1 0 0 0 0 0 Group Subtals: Work: \$657.83 Support: \$0.00 Maint: Except Support: \$0.00 Maint: Except Support:	Site: T.H.E. Aggregate	Source Perm	nit Action:	SO-2	Pern	nit/Job#: <u>M197</u>	7193
Task #; 551 State: Colorado Abbreviation: None Date: 9/13/2023 County: fremont Filename: 551 Agency or organization name: DRMS HOURLY EQUIPMENT CostShift basis: 1.per day Equipment Description -Scraper: Cat 631G Obump Area: NA Support Equipment I-coad Area: NA Obump Area: NA -Obump Area: NA Cost Breakdown: Scraper Dozer Load Area Dump Area Motor Grader Water Truck: NA Ownership cost/hour: S341.67 NA NA NA NA Operating cost/hour: S342.67 NA NA NA NA Operating cost/hour: S343.67 NA NA NA NA Operating cost/hour: S343.67 NA NA NA NA Operating cost/hour: S34.07 NA NA NA NA Number of Unitis: </th <th>PROJECT IDEN</th> <th><u>FIFICATION</u></th> <th></th> <th></th> <th></th> <th></th> <th></th>	PROJECT IDEN	<u>FIFICATION</u>					
User: TCI Agency or organization name: DRMS HOURLY EQUIPMENT COSTShift basis: 1 per day Fquipment Description	Task #:551	State:					
BURLY EQUIPMENT Equipment Description Scraper: Cat 631G -Dozer: NA Support Equipment -Load Area: NA Road Maintenance -Motor Grader: NA -Water Truck: NA Cost Breakdown: Scraper Scraper: Dozer Load Area Dump Area Motor Grader: NA 'SUtilization-machine: 100 NA NA Ownership cost/hour: \$341.67 NA NA Operating cost/hour: \$245.26 NA NA NA		<u>J23</u> County:	Fremont		F116	ename: <u>551</u>	
BOURLY EQUIPMENT COSTShift basis: Ler day Equipment Description -Bozer NA Support Equipment -Load Area NA -Dump Area: NA Road Maintenance -Motor Grader: NA -Water Truck: NA Maintenance - Motor Grader: NA -Water Truck: NA Maintenance: Scraper Ozer Load Area Dump Area Motor Grader Waintenance - Gauin %Utilization-machine: 100 NA NA Ownership costhour: S341.67 NA NA NA Maintenance Subit S252.6 NA NA NA NA Na NA NA NA NA NA Riper own. costhour: NA NA NA NA Main costhour:	Agency or	organization name: DR	MS				
Equipment Description -Dozer: NA Support Equipment Load Area: NA -Dump Area: NA -Oump Area: NA -Water Truck: NA Scraper Work Team Support Equipment Maintenance Equipment -Water Truck: NA Cost Breakdown: Scraper Dozer Load Area Dump Area Motor Grader W %Utilization-machine: 100 NA 00 NA %Utilization-machine: 100 NA Operating cost/hour: \$3341.67 NA Operating cost/hour: \$285.26 NA NA NA Ripper op. cost/hour: NA NA Ripper own. cost/hour: NA NA NA NA Mumber of Units: 1 0 0 0 Group Subtotals: \$657.83 Na NA NA Number of Units: 1 0 0 0 0 Group Subtotals: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Source of estimated swell factor:							
-Scraper: -Dozer: Cat 631G NA Support Equipment Load Area: NA -Dump Area: NA Road Maintenance -Motor Grader: -Water Truck: NA -Water Truck: NA Scraper Dozer Scraper Dozer Vultilization-machine: 100 NA NA Ownership cost/hour: \$\$285.26 NA NA Operating cost/hour: \$\$285.26 NA NA Witilization-ripper: NA NA NA Operating cost/hour: \$\$285.26 NA NA NA <	HOURLY EQUIE	<u>'MENT</u>		COSTS	nift basis: <u>1 per da</u>	<u>ay</u>	
-Dozer: NA NA -Dozer: NA -Dozer: NA RA -Dozer: NA -Water Truck: NA -Water Truck: NA -Output: Equipment Maintenance Equip Maintenance -Motor Grader: NA -Water Truck: NA Scraper Work Team Support Equipment Maintenance Equip Maintenance Figuip Maintenance Figuip Maintenance Figuip % Unip Area Motor Grader % Unip Area Maintenance Figuip Maintenance Figuip % Unip Area Maintenance Figuip % Unip Area	. <u>.</u>						
Support Equipment -Load Area: -Dump Area: NA Road Maintenance -Motor Grader: NA Water Truck: NA Cost Breakdown: Scraper Dozer Load Area Dump Area Maintenance Equipment Wittilization-machine: 100 NA NA NA NA Ownership cost/hour: \$341.67 NA NA NA NA Operating cost/hour: \$285.26 NA NA NA NA Operating cost/hour: \$285.26 NA NA NA NA Operating cost/hour: \$285.26 NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA Ripper own. cost/hour: S0.90 NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: <u>\$657.83</u> Support: \$0.00		-		G			
Image: Content of the second secon	Suppo						
-Water Truck: NA Scraper Work Team Support Equipment Maintenance Equipment Scraper Dozer Load Area Dump Area Motor Grader With the second area %Utilization-machine: 100 NA NA NA NA NA %Utilization-machine: 100 NA NA NA NA NA Ownership cost/hour: \$\$285.26 NA NA NA NA NA Operating cost/hour: \$\$285.26 NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA Unit Subtotals: \$657.83 NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: CCY Source of estimated volume: TR10 application CCY S		-Dump Area:	NA				
Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment %Utilization-machine: 100 NA NA NA NA 0wnership cost/hour: \$3341.67 NA NA NA NA 0wnership cost/hour: \$341.67 NA NA NA NA 0perating cost/hour: \$285.26 NA NA NA NA %Utilization-ripper: NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA Ripper op. cost/hour: \$30.90 NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support:	Road Ma						
Scraper Dozer Load Area Dump Area Motor Grader W %Utilization-machine: 100 NA NA NA NA NA Ownership cost/hour: \$341.67 NA NA NA NA NA Operating cost/hour: \$285.26 NA NA NA NA NA %Utilization-ripper: NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA Qeratic cost/hour: \$30.90 NA NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Source of estimated volume: TR10 application CY Scraper Bowl (volume) Basis:		-water fluck.	INA				,
Wutilization-machine: 100 NA NA NA NA Ownership cost/hour: \$\$341.67 NA NA NA NA Operating cost/hour: \$\$285.26 NA NA NA NA %Utilization-ripper: NA NA NA NA NA %Utilization-ripper: NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA Ripper own.cost/hour: NA NA NA NA NA Operator cost/hour: S0.90 NA NA NA NA Operator cost/hour: \$\$30.90 NA NA NA NA Operator cost/hour: \$\$30.90 NA NA NA NA Unit Subtotals: \$\$0.00 NA NA NA NA Number of Units: 1 0 0 0 0 0 Total work team cost/hour: \$\$657.83 Support: \$\$0.00 Maint: \$\$ Source of estimated volume: 1 CCY	Cost Breakdown:	Scraper Work Tean	n	Support Equip			e Equipmo
Ownership cost/hour: \$341.67 NA NA NA NA Operating cost/hour: \$285.26 NA NA NA NA NA %Utilization-ripper: NA NA NA NA NA NA %Utilization-ripper: NA NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA NA Ripper op. cost/hour: NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Source of estimated volume: CCY Swell factor: 1.125 Lose volume:		Scraper D	ozer	Load Area	Dump Area	Motor Grader	Water
Operating cost/hour: \$285.26 NA NA NA NA NA %Utilization-ripper: NA NA NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA NA NA Ripper op. cost/hour: NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA NA Number of Units: 1 0 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Loose volume: 27.911 CCY Swell factor: 1.125 Source of estimated volume: TR10 application Cat Handbook <td>%Utilization-machine:</td> <td>100</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td></td>	%Utilization-machine:	100	NA	NA	NA	NA	
%Utilization-ripper: NA NA NA NA NA NA Ripper own. cost/hour: NA NA NA NA NA NA Ripper op. cost/hour: NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA NA Number of Units: 1 0 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Total work team cost/hour:: \$657.83 Support: \$0.00 Maint: Source of estimated volume: 27.911 CCY Swell factor: 1.125 Loose volume: 27.911 CCY Swell factor: 1.125 Material weight: 2,650	Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Ripper own. cost/hour: NA NA NA NA NA NA NA Ripper op. cost/hour: NA NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA Number of Units: 1 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Source of estimated volume: 27,911 CCY Swell factor: 1.125 Loose volume: 21,400 LCY CY Swell factor: 1.125 Source of estimated volume: TR10 application Cat Handbook Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Struck Volume: 24.00 LCY Material weight: 2,650 lbs/LCY Decomposed rock - 25% Rock, Struck Vo	Operating cost/hour:	\$285.26	NA	NA	NA	NA	
Ripper op. cost/hour: NA NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Operator cost/hour: \$30.90 NA NA NA NA NA Unit Subtotals: \$657.83 NA NA NA NA NA Number of Units: 1 0 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$657.83 Support: \$0.00 Maint: Total work team cost/hour: \$27,911 CCY Swell factor: 1.125 Loose volume: 27,911 CCY Swell factor: 1.125 Source of estimated volume: TR10 application Cat Handbook Cat Handbook HOURLY PRODUCTION Material weight: 2,650 lbs/LCY Struck Volume: 24.00 LCY Material description: Decomposed rock - 25% Rock, 75% Earth Struck Volume: 24.00 LCY Average Volume: 29.00 <td< td=""><td>%Utilization-ripper:</td><td>NA</td><td>NA</td><td>NA</td><td>NA</td><td>NA</td><td></td></td<>	%Utilization-ripper:	NA	NA	NA	NA	NA	
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Unit Subtotals: \$657.83 NA NA NA NA NA Number of Units: 1 0 0 0 0 0 0 Group Subtotals: Work: \$657.83 Support: \$0.00 Maint: 0 Total work team cost/hour: \$657.83 Support: \$0.00 Maint: 0 MATERIAL QUANTITIES Initial volume: 27,911 CCY Swell factor: 1.125 Loose volume: 31,400 LCY Swell factor: 1.125 1.125 Source of estimated volume: TR10 application Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Struck Volume: 24.00 LCY Material weight: 2,650 lbs/LCY Struck Volume: 34.00 LCY Material description: Decomposed rock - 25% Rock, 75% Earth Struck Volume: 29.00 LCY Average Volume: 29.00 LCY	11 1			NA	NA	NA	
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Total work team cost/hour: \$657.83 MATERIAL QUANTITIES Initial volume: 27,911 Loose volume: 31,400 LCY Source of estimated volume: TR10 application Source of estimated swell factor: CCY Material weight: 2,650 lbs/LCY Material description: Decomposed rock - 25% Rock, Rated Payload: 81,600 pounds			-	-		-	
MATERIAL QUANTITIES Initial volume: 27,911 CCY Swell factor: 1.125 Loose volume: 31,400 LCY Swell factor: 1.125 Source of estimated volume: TR10 application Cat Handbook Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 2,650 lbs/LCY Struck Volume: 24.00 LCY Material description: Decomposed rock - 25% Rock, Heaped Volume: 34.00 LCY Rated Payload: 81,600 pounds Average Volume: 29.00 LCY	Group Subtotals:	Work: \$6	57.83	Support:	\$0.00	Maint:	\$0
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Initial volume: 27,911 CCY Swell factor: 1.125 Loose volume: 31,400 LCY Swell factor: 1.125 Source of estimated volume: TR10 application Cat Handbook Cat Handbook Bource of estimated swell factor: Cat Handbook Bource of estimated swell factor: Cat Handbook Bource of estimated swell factor: Scraper Bowl (volume) Basis: Material weight: 2,650 lbs/LCY Material description: Decomposed rock - 25% Rock, Heaped Volume: 24.00 LCY Material description: Decomposed rock - 25% Rock, Heaped Volume: 34.00 LCY Rated Payload: 81,600 pounds Average Volume: 29.00 LCY	MATEDIAL OU	NTITIES					
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Source of estimated swell factor: Cat Handbook Cat Handbook HOURLY PRODUCTION Material weight: 2,650 lbs/LCY Struck Volume: 24.00 LCY Material description: Decomposed rock - 25% Rock, Struck Volume: 34.00 LCY Rated Payload: 81,600 pounds Average Volume: 29.00 LCY			-	1			
HOURLY PRODUCTION Material weight: 2,650 lbs/LCY Scraper Bowl (volume) Basis: Material description: 2,650 lbs/LCY Struck Volume: 24.00 LCY Material description: Decomposed rock - 25% Rock, Heaped Volume: 34.00 LCY Rated Payload: 81,600 pounds Average Volume: 29.00 LCY							
Material weight:2,650 lbs/LCYStruck Volume:24.00LCYMaterial description:Decomposed rock - 25% Rock, 75% EarthStruck Volume:34.00LCYRated Payload:81,600 poundsAverage Volume:29.00LCY	Source	si estimated swen factor.	<u>Cut Hulk</u>				
Material weight:2,650 lbs/LCYStruck Volume:24.00LCYMaterial description:Decomposed rock - 25% Rock, 75% Earth75% EarthHeaped Volume:34.00LCYRated Payload:81,600 poundsAverage Volume:29.00LCY	HOURLY PROD	UCTION					
Material weight:2,650 lbs/LCYStruck Volume:24.00LCYMaterial description:Decomposed rock - 25% Rock, 75% Earth75% EarthHeaped Volume:34.00LCYRated Payload:81,600 poundsAverage Volume:29.00LCY				Scraper Be	<u>owl (volume) Basi</u>	<u>s:</u>	
Material description:Decomposed rock - 25% Rock, 75% EarthHeaped Volume:34.00LCYRated Payload:81,600 poundsAverage Volume:29.00LCY	Material weight.	2.650 lbs/LCY		-			.CY
Rated Payload:81,600 poundsAverage Volume:29.00LCY		Decomposed rock - 25%	Rock,				
	Rated Payload: Payload Capacity:						

<u>0.80</u> Minutes

0.70 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	783	0.67

Haul Time: **0.67** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	5.00	2.00	2914	0.36

Return Time:	0.36	minutes
Total Scraper team cycle time:	2.53	minutes
Adjusted for job conditions:	570.83	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	570.83	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	570.83	LCY/Hour
Unadjusted unit production/hour: 687.75 I CV/Hour		

Unadjusted unit production/hour: <u>687.75</u> LCY/Hour Optimal Number of Scrapers per push dozer: _____

Fleet size:	1	Team(s)	Total job time:	55.01	Hours
Unit cost:	\$1.152	/LCY	Total job cost:	\$36,186	_

MOTOR GRADER WORK

Task description:	Phase 5 Tezak- Rough G	rade (10% of Task	x 551 area)	
T.H.E. Aggregate Sour	rce Permit Actio	on: <u>SO-2</u>	Permit/Job#:	M1977193
PROJECT IDENTIFI	CATION			
Task #: 552	State: Colora	ido	Abbreviation:	None
Date: 9/13/2023	County: Fremo		Filename:	552
User: TC1				
Agency or organ	zation name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine:	CAT 12M		Horsepower:	158
Ripper Attachment:				oer day
11				CRG)
Cost Breakdown:				
Cost Breakdown			Utilization %	
Owner	ship Cost/Hour:	\$74.98	NA	
Opera	ting Cost/Hour:	\$55.26	100	
	ship Cost/Hour:	\$0.00	NA	
Ripper Opera	ting Cost/Hour:	\$0.00		
Ōper	ator Cost/Hour:	\$28.56	NA	
Total	Unit Cost/Hour:	\$158.80		
Total D	leet Cost/Hour:	\$158.80		
	be graded or ripped: <u>1.7</u>			acres
Source	of estimated acreage:	10 application		
HOURLY PRODUCT	ION			
	Average Grader Speed:	1.50	mph	
	Selected Application:		grading (0-2.5 mph) - 1.5	
	Selected Blade Angle:	30	0	
	Effective Blade Length:	10.40	feet	
	f blade overlap per pass:	2.00	feet	
	ripping width per pass: Hourly Unit Production:	<u>8.40</u> 1.5273	feet acres/hour	
Job Condition Correction	-		te Altitude: 5600 feet	
		lrce	<u> </u>	
Altitude Adj:	1	Г НВ)		
Job Efficiency:		l, fav.)		
Net Correction:	0.9000 multip			
	justed Hourly Unit Producti		acres/Hour	
Ad	justed Hourly Fleet Producti	ion: 1.3745	acres/Hour	
JOB TIME AND COS	<u>T</u>			
Fleet size: 1	Grader(s)	Total job time	: 1.26	Hours
	5 0	—	***	
Unit cost: \$115.	53 per acre	Total job cost	: \$200	

BULLDOZER RIPPING WORK

	Task description	Phase 5 Tezak-	Rip Pit Floor				
Site	T.H.E. Aggre	gate Source Pe	rmit Action:	SO-2	Permit	/Job#: <u>M19</u>	977193
	PROJECT ID	ENTIFICATION					
	Task #: 55.	3 State:	Colorado		Abbrevia	tion: None	•
		3/2023 County:	Fremont		Filena		
	User: TC	1					
	Agency	or organization name:	RMS				
	HOURLY EQ	UIPMENT COST					
	Basic	Machine: Cat D7R DS X	R Series II		Horsepower:	240	
	Ripper Att				Shift Basis:	1 per day	
	11				Data Source:	(CRG)	
	Cost Breakdown						
		-		1	Utilization %		
		Ownership Cost/Hour:		\$114.76	NA		
		Operating Cost/Hour:		\$91.98	100		
		er Ownership Cost/Hour:		\$9.06	NA		
	Rıpj	per Operating Cost/Hour:		\$5.02	100		
		Operator Cost/Hour: _ Total Unit Cost/Hour:		\$41.30 \$262.12	NA		
				\$202.12			
		Total Fleet Cost/Hour:	\$262	.12			
	MATERIAL (<u>DUANTITIES</u>	Selec	cted estimating r	method: Area		
	Alternate Method	<u>ls:</u>					
Seismic:	NA	Ba	nk Volume:	NA	BCY	NA	
Area:	17.30			1.00	Volume: 27,91		BCY or CCY
		Source of estimated quant		pplication	- <u> </u>		
	HOURLY PR	-	<u> </u>	ppnoution			
		JUCTION					
	Seismic:	с · ·	•,		C // 1		
		Seismic Vel	ocity:	NA	feet/second		
	Area:						
		Average Ripping D		1.00	feet/pass		
		Average Ripping V		6.50	feet/pass		
		Average Ripping Le Average Dozer S		400.00 88.00	feet/pass feet/minute		
		Average Maneuver		0.25	ninutes/pass		
		Production per unit		0.747	acres/hour		
	Job Condition Co	-					
		adjusted Hourly Unit Produ	ction:	0.747	Acres/hr		
	01	Site Alt		5,600	feet		
		Altitude		1.00	(CAT HB)		
		Job Effici		0.83	(1 shift/day)		
		Net Corre		0.83	multiplier		
		Adjusted Hourly Uni	t Production:	0.62	Acres/hr		
		Adjusted Hourly Flee		0.62	Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	1 Grader(s)		Total job time	27.91		Hours
	Unit cost:	\$422.878 Per acre		Total job cost	: \$7,316	<u> </u>	

REVEGETATION WORK

Та	ask descrip	otion:	Phase 5 Tezak-	Reseed			
Site:	T.H.E. A	ggregate Sour	ce Pe	rmit Action:	SO-2	Permit/Job	o#: <u>M1977193</u>
<u>PR</u>	COJECT Task #:	IDENTIFIC	ATION State:	Colorado		Abbreviation:	None
	Date:	9/13/2023 TC1	County:	Fremont		Filename:	554
	Age	ency or organiz	ation name: DI	RMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	300.00	pound	\$0.44	\$132.00
Composted manure DRMS Survey	2,000.00	pound	\$0.43	\$850.00
			Total Fertilizer Materials Cost/Acre	\$982.00

Application

Description		Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)		\$29.62
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$71.44

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$100.40
	Total Tilling Cost/Acre	\$100.40

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$7.99
Indian Ricegrass - Nespar	1.50	4.86	\$13.31
Sideoats Grama - Butte	2.50	8.21	\$22.50
Juniper, Single Seed	1.00	0.29	\$75.33
Crested Wheatgrass - Standard	0.50	2.30	\$2.08
Pine, Pinyon	1.00	0.03	\$29.50
Mahogany, Mountain	1.50	2.03	\$55.21
Needle and Thread	1.50	3.96	\$62.78
Western Wheatgrass - Native	1.00	2.53	\$6.00

Saltbush, Four Wing	2.50	3.44	\$31.25
Winter Fat	1.50	3.82	\$30.75
Totals Seed Mix	15.00	39.63	\$336.69

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

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

	No. of Acres: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acr <u>e*:</u> LLING, SEEDING,	
Initial Job Cost:			
Reseeding Job Cost:	\$24,256.59		
Total Job Cost:	\$72,770		
Job Hours:	17.00		

DOZERGRADER WORK

T.H.E. Aggregat	te Source	Per	mit Action:	SO-2	Permit/Job#:	M1977193
PROJECT IDEN	TIFICATI	<u>ON</u>				
Task #: 555		State:	Colorado		Abbreviation:	None
Date: <u>9/13/2</u> User: <u>TC1</u>	2023	County:	Fremont		Filename:	555
Agency or	organization	name: DF	RMS			
HOURLY EQUI	PMENT CO	<u>OST</u>				
Basic Machine:	Cat D5K2	XL - 5P				
Horsepower:						
Blade Type:						
Attachment: Shift Basis:	NA 1 per day					
Data Source:	1 per day					
Cost Breakdown:						
~ ~				Utilization %		
Ownership Cost/H			\$102.71	NA		
Operating Cost/H			\$61.54	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H	our:		\$41.30	NA		
Total unit Cost/Hou	r: \$205.	.55				
	ur: \$205.					

Fleet size:	1 Dozer(s)
Unit cost:	\$205.55/LCY

Total job time:	2.42 Hours
Total job cost:	\$497