# COST SUMMARY WORK

Task description:	Totals					
Site: Ross Pit			Permit Action:	AM02 2014	Permit/Job#:	M1990134
PROJECT	DENTIFICATIO	<u>ON</u>				
Task #:	001	State:	Colorado		Abbreviation:	None
Date:	5/27/2014	County:	Moffat		Filename:	M134-001
User:	SIM	-			_	

Agency or organization name: DRMS

# TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
002	FInal Grading	DOZER	1	18.13	\$3,787.49
003	spread topsoil over disturbed area	DOZER	1	5.46	\$1,140.55
004	revegetate pit area	REVEGE	1	0.00	\$2,395.35
005	mob/demob	MOBILIZE	1	0.68	\$1,181.72
		SUBTO	OTALS:	24.27	\$8,505.11

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.700	(FND-MF)
0.545	(CAT HB)
1.000	(CAT HB)
0.793	(CAT HB)
1.000	(PAT)
	0.830 0.700 0.545 1.000 0.793

Net correction: 0.1695

Adjusted unit production: 275.78 LCY/hr

Adjusted fleet production: 275.78 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.757/LCY

Total job time: 18.13 Hours
Total job cost: \$3,787.49

# **BULLDOZER WORK**

Task description:	Spread topsoi	l over disturb	ed area		
Ross Pit		Permit Action:	AM02 2014	Permit/Job#:	M1990134
PROJECT IDENTI	<b>FICATION</b>				
Task #: 003	Stat	e: Colorado		Abbreviation:	None
Date: $\frac{-502}{5/27/2014}$				Filename:	M134-003
User: SJM					
Agency or org	ganization name:	DRMS			
HOURLY EQUIPM	ENT COST				
	at D8T - 8SU				
	10				
and the same of th	emi-Universal				
- 1					
	IA .		11		
	per day				
Data Source: (	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour	: \$62	.67	NA		
Operating Cost/Hour		3.22	100		
Ripper op. Cost/Hour			0		
Operator Cost/Hour			NA		
operator courtion.			IVA		
	000				
	000				
Loose volume: 4,	000 LCY				
Source of estimated vo			tion, Mining & Safety		
Source of estimated sw	ell factor: Cat F	Iandbook			
HOURLY PRODU	CTION				
Average push distance	: 100 fee	t			
Unadjusted hourly pro-	duction: 852.6 L	.CY/hr			
Materials consistency	description: Lo	ose stockpile 1.	2		
Average push gradient					
Average site altitude:	6,200 feet				
Material weight:	1,600 lbs/LCY	7			
Weight description:	Top Soil			111	
Job Condition Correct		0.750	Source		
	or Skill:	0.750	(AVG.)		
Material cons		1.200	(CAT HB)		
Dozing	method:	1.000	(GEN.)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 732.64 LCY/hr
Adjusted fleet production: 732.64 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.285/LCY

Total job time: 5.46 Hours
Total job cost: \$1,140.55

### **REVEGETATION WORK**

Task description: Revegetate pit area Site: Ross Pit Permit Action: AM02 2014 Permit/Job#: M1990134 **PROJECT IDENTIFICATION** Task #: 004 Colorado Abbreviation: State: None Date: 5/27/2014 County: Moffat Filename: M134-004 User: SJM Agency or organization name: **DRMS** 

### **FERTILIZING**

#### **Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

**Application** 

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

### **TILLING**

Description		Cost /Acre
Chisel plowing {DMG}		\$88.58
	Total Tilling Cost/Acre	\$88.58

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Perennial Tetraploid - Tetra-Plus	2.80	15.88	\$4.84
Crested Wheatgrass - Hy-Crest	2.80	12.86	\$6.69
Crested Wheatgrass - Standard	2.80	12.86	\$6.22
Intermediate Wheatgrass - Rush	2.80	5.98	\$6.27
Pubescent Wheatgrass - Luna	2.80	5.79	\$6.27
Totals Seed Mix	14.00	53.35	\$30.30

**Application** 

Description	Cost /Acre

Drill seeding (DRMS Cost Data)		\$88.20
	Total Seed Application Cost/Acre	\$88.20

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.64	ACRE	\$16.24	\$42.87
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$572.87

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Weed spray, truck, aquatic area, nox. [DMG]		\$61.49
	Total Mulch Application Cost/Acre	\$127.38

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
		A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			\$
		To	tals Nursery Stoo	ck Cost / Acre	\$0.00

### **JOB TIME AND COST**

No. of Acres: 2.64

Cost /Acre: \$907.33

Estimated Failure Rate: 0%

Cost /Acre\*: \$207.08

\*Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: \$2,395.35 Reseeding Job Cost: \$0.00

Total Job Cost: \$2,395.35

Job Hours: 0.00

### **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description: Mob/demob

Site: Ross Pit Permit Action: AM02 2014 Permit/Job#: M1990134

#### **PROJECT IDENTIFICATION**

Task #: 005 State: Colorado Abbreviation: None

 Date:
 5/27/2014
 County:
 Moffat
 Filename:
 M134-005

 User:
 SJM

User: SJM

Agency or organization name: DRMS

### **EQUIPMENT TRANSPORT RIG COST**

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER

(25T, 50T, AND 100T)

#### Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

#### **NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8U	48.33	\$62.67	\$117.55	1	\$180.22	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: \$308.48 \$206.22 \$500.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.30	1	\$15.30	\$15.30

Subtotals: \$15.30 \$15.30

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

miles

35.00

mph

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

\$1,176.47

\$5.25

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.34	0.34

## **JOB TIME AND COST**

Total job time: 0.69 Hours

Total job cost: \$1,181.72