#### **COST SUMMARY WORK**

e: Velarde	Pit	Pe	rmit Action: 20	19 Inspection	Permit/Jol	o#: <u>M2002118</u>
PROJECT Task #:	IDENTIFIC 999	CATION State:	Colorado		Abbreviation:	None
Date:	2/8/2019 JPL	County:	Huerfano		Filename:	M118-999

#### **TASK LIST (DIRECT COSTS)**

Task		Form	Fleet	Task	
Lask	Description	Used	Size	Hours	Cost
001	Grade slopes to 3H:1V	DOZER	1	11.77	\$1,944.00
002	Replace overburden 1ft on 20 acres	SCRAPER1	1	31.04	\$25,750.00
003	Topsoil 30 acres with 0.5 ft	SCRAPER1	1	20.69	\$17,111.00
004	Rip 5 acres	RIPPER	1	7.98	\$1,335.00
005	Revegetation of 30 acres	REVEGE	1	40.00	\$40,628.00
006	Mob/Demob	MOBILIZE	1	3.50	\$4,537.00
		<u>SUBTO</u>	TALS:	114.98	\$91,305

#### **INDIRECT COSTS**

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

2.02 Liability insurance: Total = \$1,844.36 Performance bond: 1.05 Total = \$958.70 \$7,642.49 Job superintendent: 104.62 Total = Total = Profit: 10.00 \$9,130.50

TOTAL O & P =  $\frac{49,150.50}{19,576.05}$ 

CONTRACT AMOUNT (direct + O & P) =  $\frac{$19,976.05}{$110,881.05}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 4.25 Total = \$4,712.44

Reclamation management and/or administration: 5.00 \$5,544.05

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$30,332.55

TOTAL BOND AMOUNT (direct + indirect) = \$121,637.55

# SCRAPER TEAM WORK

Task description:	Replace ov	erburden 1ft on	20 acres			
Site: Velarde Pit		Permit Action	: 2019 Inspect	ion I	Permit/Job#: M2	2002118
PROJECT IDENT	<u>IFICATION</u>					
Task #: $\begin{array}{c} 002 \\ Date: & \frac{2/8/20}{}\\ User: & JPL \end{array}$		cate: Colorado nty: Huerfano			viation: None ename: NA	
	organization name:	DRMS				
HOURLY EQUIP			COST	Shift basis: 1 per	day	
		Fauinm	ent Description			
		craper: Cat 63	7G			
Cymnon	-] t Equipment -Load		'R DS XR Series	II		
Suppor	t Equipment -Load Dump-					
Road Mai	ntenance – Motor C					
	-Water	Γruck: NA				
Cont Donal January	C W 1	- Т	C	•	Marian	E ' 4
Cost Breakdown:	Scraper Worl	Dozer	Support Equ Load Area	Dump Area	Motor Grader	ee Equipment Water Truck
0/77 111	-			-		2.7.
%Utilization-machine:	100	25	NA	NA	NA	NA
Ownership cost/hour:	\$155.61	\$61.41	NA	NA	NA	NA
Operating cost/hour:	\$166.86	\$13.55	NA	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$6.02	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$31.05	\$41.52	NA	NA	NA	NA
Unit Subtotals:	\$353.51	\$122.51	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work:	\$829.53	Support:	\$0.00	Maint:	\$0.00
Total work team cost/						
MATERIAL QUA	NTITIES					
Initial volume:	32,266	CCY	Swell fac	tor: 1.125		
Loose volume:	36,299	LCY				
	rce of estimated vol f estimated swell fa			, Mining & Safety	ý	
HOURLY PRODU	<u>JCTION</u>					
			Scraper I	Bowl (volume) Ba	asis:	
Material weight:	2,650 lbs/LCY		Struck	Volume: 24.00	) I	LCY
Material description:	Decomposed roc 75% Earth	k - 25% Rock,	Heaped	Volume: 34.00	) I	CY
Rated Payload:	81,600 pounds			Volume: 29.00		CY
Payload Capacity:	30.79 LCY		Adjusted	Capacity: <b>29.0</b> 0		.CY

Site Altitude: 6100 feet

#### Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

#### **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	800.00	2.00	5.00	7.00	1362	0.66

Haul Time: 0.66 minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-2.00	5.00	3.00	2949	0.41

Return Time: 0.41 minutes

Total Scraper team cycle time: 2.47 minutes

Adjusted for job conditions: 584.70 LCY/Hour Selected Number of Scrapers: 2 Scraper(s)

Adjusted single scraper team (unit) hourly production: 1,169.39 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,169.39 LCY/Hour

Unadjusted unit production/hour: 704.45 LCY/Hour
Optimal Number of Scrapers per push
dozer: \_\_\_\_\_

#### **JOB TIME AND COST**

 Fleet size:
 1
 Team(s)
 Total job time:
 31.04
 Hours

 Unit cost:
 \$0.709
 /LCY
 Total job cost:
 \$25,750

# **SCRAPER TEAM WORK**

Task description:	Topsoil 30	acres with 0.5 ft	t			
Site: Velarde Pit		Permit Action	: 2019 Inspect	ion F	Permit/Job#: M2	2002118
PROJECT IDENT	<u>IFICATION</u>					
Task #:003		ate: Colorado			viation: None	
Date: 2/8/20	19 Cou	nty: Huerfano	1	File	ename: Na	
User: JPL						
Agency or o	rganization name:	DRMS				
HOURLY EQUIP	MENT_		COST	Shift basis: 1 per	day	
	Ç.		ent Description			
		1	R DS XR Series	II		
Suppor	t Equipment -Load		K D5 AK Series	11		<u></u>
	-Dump	Area: NA				
Road Mai	ntenance – Motor C	<u> </u>				
	-Water	Fruck: NA				
Cost Breakdown:	Scraper Worl	c Team	Support Equ	ipment	Maintenanc	ce Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	20	NA	NA	NA	NA
Ownership cost/hour:	\$155.61	\$61.41	NA	NA	NA	NA
Operating cost/hour:	\$166.86	\$10.84	NA	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$6.02	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$31.05	\$41.52	NA	NA	NA	NA
Unit Subtotals:	\$353.51	\$119.80	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work:	\$826.82	Support:	\$0.00	Maint:	\$0.00
Total work team cost/						
Initial volume:	19,360	CCY	Swell fac	tor: 1.250		
Loose volume:	24,200	LCY	Swell lac	ior: 1.230		
	ce of estimated vol		CD14:	M:: % C-f-t-	_	
	f estimated swell fa			, Mining & Safety	/	
HOURLY PRODU	CTION					
			Scraper I	Bowl (volume) Ba	nsis:	
Material weight:	2,650 lbs/LCY		Struck	Volume: 24.00	<u> </u>	CY
Material description:	Decomposed rock 75% Earth	k - 25% Rock,	Heaped	Volume: 34.00	L	CY
Rated Payload:	81,600 pounds			Volume: 29.00		CY
Payload Canacity	30.79 LCV		Adjusted (	Canacity: 29 00	·T	CY

Site Altitude: 6100 feet

#### Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

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

#### 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	800.00	2.00	5.00	7.00	1362	0.66

Haul Time: **0.66** minutes

#### Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-2.00	5.00	3.00	2949	0.41

Return Time: 0.41 minutes

Total Scraper team cycle time: 2.47 minutes

Adjusted for job conditions: 584.70 LCY/Hour
Selected Number of Scrapers: 2 Scraper(s)
team (unit) hourly production: 1,169.39 LCY/Hour

Adjusted single scraper team (unit) hourly production: 1,169.39 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,169.39 LCY/Hour

Unadjusted unit production/hour: \_\_\_\_\_\_\_\_ LCY/Hour Optimal Number of Scrapers per push \_\_\_\_\_\_\_ dozer: \_\_\_\_\_\_\_

#### **JOB TIME AND COST**

 Fleet size:
 1
 Team(s)
 Total job time:
 20.69
 Hours

 Unit cost:
 \$0.707
 /LCY
 Total job cost:
 \$17,111

# **BULLDOZER RIPPING WORK**

Т	ask description:	Rip 5 acres						_
Site:	Velarde Pit		Permit Action:	2019 Inspe	ection	Permit/Job#:	M2002118	8
<u>PI</u>	ROJECT IDENTIFI	<u>ICATION</u>						
	Task #: 004	Sta	te: Colorado		Abb	reviation: N	Vone	
	Date: 2/8/2019	Count					la .	
	User: JPL							
	Agency or organ	nization name:	DRMS					
н	OURLY EQUIPME	=						
	Basic Machine		S XR Series II		Horsepower:	240	<b>1</b>	
	Ripper Attachmen			<u></u> ,	Shift Basis:	1 per		
	Ripper Attachinen	it. 5-Shank Kij	ррсі	<u> </u>	Data Source:	(CR		
Cc	ost Breakdown:							
<u></u>	ost Breakdown.				Utilization %			
	Owne	rship Cost/Hour:		\$61.41	NA			
	Oper	rating Cost/Hour:		\$54.22	100	_		
		rship Cost/Hour:		\$6.02	NA	<u> </u>		
		rating Cost/Hour:		\$4.12	100	_		
		erator Cost/Hour:		\$41.52	NA	_		
	Total	Unit Cost/Hour:	·	\$167.28	_			
	Total	Fleet Cost/Hour:	\$16	7.28	_			
M	Total IATERIAL QUANT		-		- ng method: Are	ea		
	IATERIAL QUANT		-		g method: <u>Are</u>	ea		-
<u>Al</u>	IATERIAL QUANT		Sele	cted estimatin		ea	NA	-
<u>Al</u>	IATERIAL QUANT Iternate Methods:  NA		Sele Bank Volume:	cted estimatin	ВСҮ	12,100	NA I	- BCY or CC
Al Seismic:	IATERIAL QUANT  Iternate Methods:  NA 5.00 a	ATTIES acres	Sele Bank Volume: Rip Depth (ft):	NA 1.50	ВСҮ			BCY or CC
Al Seismic: Area:	IATERIAL QUANT  Iternate Methods:  NA 5.00 a  Source	ecres of estimated qua	Sele Bank Volume: Rip Depth (ft):	NA 1.50	ВСҮ			- BCY or CC
Al Seismic: Area:	IATERIAL QUANT  Iternate Methods:  NA 5.00 a  Source  OURLY PRODUCT	ecres of estimated qua	Sele Bank Volume: Rip Depth (ft):	NA 1.50	ВСҮ			- BCY or CC
Al Seismic: Area:	IATERIAL QUANT  Iternate Methods:  NA 5.00 a  Source	CITIES  Acres  TO of estimated quantition	Sele  Bank Volume: Rip Depth (ft): antity: <u>Exhibi</u>	NA 1.50	BCY Volume:	12,100		BCY or CC
Al Seismic: Area:	IATERIAL QUANT  Iternate Methods:  NA 5.00 a  Source  OURLY PRODUCT	CITIES  Acres  TO of estimated quantition	Sele Bank Volume: Rip Depth (ft):	NA 1.50	BCY Volume:	12,100		BCY or CC
Al Seismic: Area: Hu	IATERIAL QUANT  Iternate Methods:  NA 5.00 a  Source  OURLY PRODUCT	CITIES  Acres  TO of estimated quantities  Seismic V	Sele  Bank Volume: Rip Depth (ft): antity: Exhibi	NA 1.50 t L NA	BCY Volume:	12,100		BCY or CC
Al Seismic: Area: Hu	IATERIAL QUANT  Iternate Methods:  NA 5.00 a Source OURLY PRODUCT  eismic:	Average Ripping	Sele  Bank Volume: Rip Depth (ft): antity:	NA 1.50 t L  NA 2.45	BCY Volume:  feet/see	12,100 cond		BCY or CC
Al Seismic: Area: Hu	IATERIAL QUANT  Iternate Methods:  NA 5.00 a Source OURLY PRODUCT eismic:	ETTIES  Acres  TION  Seismic V  Average Ripping  Average Ripping	Sele  Bank Volume: Rip Depth (ft): antity: Exhibit  Velocity: g Depth: g Width:	NA 1.50 t L  NA 2.45 6.50	BCY Volume:  feet/sed mph degree	12,100 cond		BCY or CC
Seismic: Area:  Hu	IATERIAL QUANT  Iternate Methods:  NA 5.00 a Source OURLY PRODUCT eismic:	ETTIES  Acres  TION  Seismic V  Average Ripping  Average Ripping  Average Ripping	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  Velocity: g Depth: g Width: Length:	NA  1.50  t L  NA  2.45  6.50  500.00	BCY Volume:  feet/see  mph degree feet	12,100 cond		BCY or CC
Seismic: Area:  Hu	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT eismic:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze	Sele  Bank Volume: Rip Depth (ft): antity: Exhibit  Velocity: g Depth: g Width: Length: r Speed:	NA  1.50  t L  NA  2.45  6.50  500.00  88.00	BCY Volume:  feet/see mph degree feet feet feet	12,100 cond		BCY or CC
Seismic: Area:  Hu	IATERIAL QUANT  Iternate Methods:  NA 5.00 a Source  OURLY PRODUCT  eismic:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  /elocity: g Depth: g Width: Length: cr Speed: er Time:	NA  NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25	BCY Volume:  feet/see mph degree feet feet feet feet			BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT eismic:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  /elocity: g Depth: g Width: Length: cr Speed: er Time:	NA  1.50  t L  NA  2.45  6.50  500.00  88.00	BCY Volume:  feet/see mph degree feet feet feet			BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT  Iternate Methods:  NA 5.00 a Source  OURLY PRODUCT  eismic:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  /elocity: g Depth: g Width: Length: cr Speed: er Time:	NA  NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25	BCY Volume:  feet/see mph degree feet feet feet feet			BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT Essmic:  rea:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  Velocity: g Depth: g Width: Length: cr Speed: er Time: unit area:	NA  NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25	BCY Volume:  feet/see mph degree feet feet feet feet	cond s		BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT Essmic:  rea:	Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuve Production per u Factors Hourly Unit Pro	Sele  Bank Volume: Rip Depth (ft): antity:Exhibi  Velocity: g Depth: g Width: Length: cr Speed: er Time: unit area:	NA 1.50 t L  NA 2.45 6.50 500.00 88.00 0.25 0.755	feet/see  mph degree feet feet feet feet acres/h	cond s		BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT Essmic:  rea:	Average Ripping Average Ripping Average Ripping Average Ripping Average Maneuve Production per u  Factors Hourly Unit Pro	Sele  Bank Volume: Rip Depth (ft): antity: Exhibi  Velocity: g Depth: g Width: Length: cr Speed: er Time: init area:	NA 1.50 t L  NA 2.45 6.50 500.00 88.00 0.25 0.755	BCY Volume:  feet/sec  mph degree feet feet feet acres/h			BCY or CC
Al Seismic: Area: <u>He</u> Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT Essmic:  rea:	Average Ripping Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u  Factors Hourly Unit Pro	Sele  Bank Volume: Rip Depth (ft): antity: Exhibit  Velocity: g Depth: g Width: Length: r Speed: er Time: unit area: duction: Altitude:	NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25  0.755  0.755	BCY Volume:  feet/sec  mph degree feet feet feet acres/h Acres/l	12,100  cond s nour hr		BCY or CC
Al Seismic: Area: Ho Se	IATERIAL QUANT Iternate Methods:  NA 5.00 a Source OURLY PRODUCT Essmic:  rea:	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u  Factors Hourly Unit Pro  Site A Altitu Job Eff	Sele  Bank Volume: Rip Depth (ft): antity: Exhibit  Velocity:  g Depth: g Width: Length: cr Speed: er Time: mit area:  duction: Altitude: ude Adj:	NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25  0.755  6,100  1.00	BCY Volume:  feet/sec  mph degree feet feet feet acres/h Acres/l	12,100  cond s hr HB) t/day)		BCY or CC
Al Seismic: Area: Ho Se	Iternate Methods:  NA 5.00 a Source OURLY PRODUCT essmic:  rea:  b Condition Correction Unadjusted	Average Ripping Average Ripping Average Ripping Average Ripping Average Doze Average Maneuve Production per u  Factors Hourly Unit Pro  Site A Altitu Job Eff	Sele  Bank Volume: Rip Depth (ft): antity: Exhibi  Velocity: g Depth: g Width: Length: r Speed: er Time: anit area: duction: Altitude: ude Adj: ficiency: rrection:	NA  1.50  t L  NA  2.45  6.50  500.00  88.00  0.25  0.755  6,100  1.00  0.83	BCY Volume:  feet/sec  mph degree feet feet feet acres/h  Acres/l  feet (CAT I (1 shift)	12,100  cond s hr HB) t/day)		BCY or CC

## **JOB TIME AND COST**

Fleet size: 1 Grader(s) Total job time: 7.98 Hours

Unit cost: \$267.059 Per acre Total job cost: \$1,335

# **REVEGETATION WORK**

Velarde Pit	Permit A	Action: 2019	Inspection		Permit/Job#:	M2002118
ROJECT IDENTIFICA	ATION					
	<u></u>	1		411		т
Task #: 005		orado				Vone
Date: 2/8/2019 User: JPL	County: Hue	erfano		F	ilename: N	Ja .
Agency or organiza	ation name: DRMS					
<b>ERTILIZING</b>						
laterials						
		Units /		-		
Description		Acre	Unit		/ Unit	Cost /Acre
Ammonium nitrate, 33-0-		40.00	pound	\$0.34		\$13.60
Triple superphosphate, 0-	-46-0	40.00	pound	\$0.44		\$17.60
				Total	l Fertilizer	
				Total	Materials	
					Cost/Acre	\$31.20
						40-1-1
pplication						
						Cost /Acre
Description Tractor towed spreader (N	MEANS 32 01 90.13 01	120)				Cost /Acre \$34.72
Description	MEANS 32 01 90.13 01	·	l Fertilizer Ap	oplication	Cost/Acre	
Description	MEANS 32 01 90.13 01	·	l Fertilizer Ap	oplication	Cost/Acre	\$34.72
Description Tractor towed spreader (N	MEANS 32 01 90.13 01	·	l Fertilizer Ap	oplication	Cost/Acre	\$34.72 <b>\$34.72</b>
Description Tractor towed spreader (N  ILLING  Description		Tota	l Fertilizer Ap	oplication	Cost/Acre	\$34.72 \$34.72 Cost /Acre
Description Tractor towed spreader (N  ILLING  Description Disc harrowing, 6" deep (1)	(MEANS 32 91 13.23 e	Tota	l Fertilizer Ap	oplication	Cost/Acre	\$34.72 \$34.72 Cost /Acre \$106.29
Description Tractor towed spreader (N  ILLING  Description	(MEANS 32 91 13.23 e	Tota	l Fertilizer Ap	oplication	Cost/Acre	\$34.72 \$34.72 Cost /Acre
Description Tractor towed spreader (N  ILLING  Description Disc harrowing, 6" deep (1)	(MEANS 32 91 13.23 e	Tota			Cost/Acre	\$34.72 \$34.72 Cost /Acre \$106.29
Description Tractor towed spreader (N  ILLING  Description Disc harrowing, 6" deep (1)	(MEANS 32 91 13.23 e	Tota				\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60
Description Tractor towed spreader (No. 1997)  ILLING  Description Disc harrowing, 6" deep (No. 1997) Weed control spraying (No. 1997)	(MEANS 32 91 13.23 e	Tota	Tot	tal Tilling		\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60
Description Tractor towed spreader (No. 1997)  ILLING  Description Disc harrowing, 6" deep (No. 1997) Weed control spraying (No. 1997)	(MEANS 32 91 13.23 e	Tota	Tot	tal Tilling	Cost/Acre	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60
Description Tractor towed spreader (Note: Tractor towed spreader (	(MEANS 32 91 13.23 e	Tota	Tot	tal Tilling	Cost/Acre  Seeds per SQ.	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60 \$299.89
Description Tractor towed spreader (Note: Tractor towed spreader (	(MEANS 32 91 13.23 e	Tota	Tot R P I	tal Tilling	Cost/Acre	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60 \$299.89
Description Tractor towed spreader (Note: Tractor towed spreader (	(MEANS 32 91 13.23 e	Tota	Tot	tal Tilling Rate – PLS BS /	Cost/Acre  Seeds per SQ.	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60 \$299.89
Description Tractor towed spreader (Note: ILLING)  Description Disc harrowing, 6" deep (Note: Weed control spraying (Note: EEDING)  Seed Mix	(MEANS 32 91 13.23 6 MEANS 31 31 16.13 31	Tota	Tot  R P L A	tal Tilling Rate – PLS LBS / Acre	Cost/Acre  Seeds per SQ. FT	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60 \$299.89
Description Tractor towed spreader (Note: Tractor towed spreader (	(MEANS 32 91 13.23 6 MEANS 31 31 16.13 31	Tota	Tot  R P I A	tal Tilling  Rate – PLS LBS / Acre .00	Seeds per SQ. FT	\$34.72 \$34.72 Cost /Acre \$106.29 \$193.60 \$299.89 Cost /Acre

		. •
Ann	Hica	ıtion

Description	Cost /Acre

**Totals Seed Mix** 

\$42.93

25.37

4.00

Drill Seeding (DRMS Survey Cost)		\$232.00
	<b>Total Seed Application Cost/Acre</b>	\$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	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
	<b>Total Mulch Application Cost/Acre</b>	\$68.78

### **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:	30	Cost /Acre:	\$1,285.52
Estimated Failure Rate:	25%	Cost /Acre*:	\$274.93
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$38,565.60

Reseeding Job Cost: \$2,061.98

Total Job Cost: \$40,628

40.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob				
te: Velarde Pit	Permi	t Action:	Inspection	_ Permit/Jo	bb#: <u>M2002118</u>
PROJECT IDENTIFICATION	ON				
Task #: 006  Date: 2/8/2019  User: JPL		olorado Juerfano		Abbreviation: Filename:	None M118-006
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR		ERIC ON-HIGH	Cost Dat	ACTOR, 6X4,	1 per day CRG Data DIESEL POWERED,
Truck Trailer Desc	ription: C		DING GOOSENEC FRAILER (25T, 50	K, DROP DEC	
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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D7R DS XR	35.93	\$67.43	\$117.55	1	\$184.98	\$117.55	\$250.00
Series II							
Cat 637G	57.28	\$155.61	\$125.45	2	\$562.12	\$250.90	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	2	\$208.42	\$177.34	\$250.00
Seeder with							
Tractor							

Subtotals: \$955.52 \$545.79 \$750.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

WALSENBURG

miles

40.00

mph

Task # 999

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

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.38	0.38
Return Time (Hours):	0.38	0.38
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.75	0.75

### **JOB TIME AND COST**

Total job time:	3.50	Hours
Total job cost:	\$4,537	_