## COST SUMMARY WORK

EIK Cree	ek Mine	Permit Action:	Technical Revision 74	Permit/Job#:	C1981022
PROJEC	Γ IDENTIFICA	TION			
Task #:	360	State: Color	ado	Abbreviation:	None
	8/8/2013	County: Delta		Filename:	C022-360
Date:	0/0/2015	20011091 2010			

Agency or organization name: DRMS

#### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
361	Plug and Seal 9 Gob Vent Boreholes	BOREHOLE	1	36.00	\$11,070.46
362	Regrade Drill Pads	DOZER	1	16.83	\$4,198.39
363	Regrade Light-Use Roads	DOZER	] 1	22.44	\$5,597.85
364	Replace Topsoil from Stockpile to Drill Pads	DOZER	1	10.80	\$2,693.35
365	Replace Topsoil from Stockpile to Light-Use	DOZER	1	14.40	\$3,591.50
	Roads				
366	Broadcast Seed Drill Pads	REVEGE	1	1.00	\$3,849.02
367	Broadcast Seed Light-Use Roads	REVEGE	1	1.88	\$5,132.02
		<u>SUBTO</u>	DTALS:	103.35	\$36,132.59

#### **INDIRECT COSTS**

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

Liability insurance:	2.02%	Total =	\$729.88
Performance bond:	1.05%	Total =	\$379.39
Job superintendent:	59.50 hrs	Total =	\$3,891.90
Profit:	10.00%	Total =	\$3,613.26
		TOTAL O & P =	\$8,614.43
		CONTRACT AMOUNT (direct + O & P) = $($	\$44,747.02

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 4.61% 3.58%	Total = Total =	0.00 \$2,062.84 \$1,601.94
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$12,279.21
TOTAL B	OND AMOUNT (d	lirect + indirect) =	\$48,411.80

# BOREHOLE SEALING WORK

	Task description:	Plug and Seal 9 Gob Vent 1	Boreholes		
Site:	Elk Creek Mine	Permit Action:	Technical Revision 74	Permit/Job#:	C1981022
	PROJECT IDENTIFICA	ATION			

Task #:	361	State:	Colorado	Abbreviation:	None
Date:	8/8/2013	County:	Delta	Filename:	C022-361
User:	BFB				

Agency or organization name: DRMS

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Bottom plug	PVC plug - 10 in. diameter borehole	9.625"	50' Each	9.00	EA	\$96.54	\$868.86
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	9.625"	450 feet	114.00	bag	\$11.50	\$1,311.00
- Cut Casing at Surface	Exposed casing removal - 8 to 14 in. diameter steel pipe (LF)	9.625"	NA	23.00	LF	\$8.81	\$202.63
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	9.00	EA	\$2.81	\$25.29
- Drill Rig Time	ATLAS COPCO ROC F9-11,5.0 in.	NA	NA	36.00	EA	\$201.28	\$7,246.08
- Water Truck Time	Water Tanker, 3,500 Gal.	NA	NA	36.00	EA	\$39.35	\$1,416.60

Job Hours: 36.00

Total Cost: \$11,070.46

Elk Creek Mine	Permit Actio	n: Technical Revision 74	Permit/Job#:	C1981022
PROJECT IDENTI	<u>AICATION</u>			
Task #: 362	State: Colora	do	Abbreviation:	None
Date: 8/8/2013	County: Delta		Filename:	C022-362
User: BFB				
Agency or orga	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machine: Ca	ut D9T - 9SU			
Horsepower: 40				
	mi-Universal			
Attachment: NA				
	ber day			
	RG)			
Cost Breakdown:		Utilization %		
Ownership Cost/Hour:	\$69.88	NA		
Operating Cost/Hour:		100		
Ripper op. Cost/Hour:		0		
Operator Cost/Hour:				
Operator Cost/Hour.	\$57.41	NA		
Cotal unit Cost/Hour:	\$249.42			
Cotal Fleet Cost/Hour:	\$249.42			
Total Fleet Cost/Hour:				
'otal Fleet Cost/Hour: MATERIAL QUAN	\$249.42			
MATERIAL QUAN	\$249.42 TITIES			
MATERIAL QUAN Initial Volume:7,20	\$249.42 TITIES 60			
MATERIAL QUAN Initial Volume:	<b>\$249.42 TITIES</b> 60 25			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10	\$249.42 TITIES 60 25 68 LCY			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Gource of estimated volu	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclam	nation, Mining & Safety		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volucource of estimated swe	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclam	nation, Mining & Safety		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Gource of estimated volu	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclam	nation, Mining & Safety		
MATERIAL QUAN Initial Volume: 7,20 Swell factor: 1.12 Loose volume: 8,10 Cource of estimated volu Cource of estimated swe actor:	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclan ell Cat Handbook	nation, Mining & Safety		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volucource of estimated swe	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclan ell Cat Handbook	nation, Mining & Safety		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       100         Source of estimated swe       100         Actor:       100         HOURLY PRODUC       100	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclan cll Cat Handbook	nation, Mining & Safety		
MATERIAL QUAN Initial Volume: 7,20 Swell factor: 1.12 Loose volume: 8,10 Cource of estimated volu Cource of estimated swe actor: HOURLY PRODUC	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         ell       Cat Handbook         CTION         100 feet	nation, Mining & Safety		
MATERIAL QUAN Initial Volume: 7,20 Swell factor: 1.12 Loose volume: 8,10 Cource of estimated volu Cource of estimated swe actor: HOURLY PRODUC	\$249.42 TITIES 60 25 68 LCY ume: Division of Reclan cll Cat Handbook	nation, Mining & Safety		
MATERIAL QUAN Initial Volume: 7,20 Swell factor: 1.12 Loose volume: 8,10 Cource of estimated volu Cource of estimated swe actor: HOURLY PRODUC	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         ell       Cat Handbook         CTION         100 feet	nation, Mining & Safety		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volution       8,10         Source of estimated swell       8,10 <t< td=""><td>\$249.42           TITIES           60           25           68 LCY           ume:         Division of Reclam           01         Cat Handbook           2TION           100 feet           1,243.2 LCY/hr</td><td></td><td></td><td></td></t<>	\$249.42           TITIES           60           25           68 LCY           ume:         Division of Reclam           01         Cat Handbook           2TION           100 feet           1,243.2 LCY/hr			
MATERIAL QUAN Initial Volume: 7,20 Swell factor: 1.12 Loose volume: 8,10 Cource of estimated volu Cource of estimated swe actor: HOURLY PRODUC	\$249.42           TITIES           60           25           68 LCY           ume:         Division of Reclam           01         Cat Handbook           2TION           100 feet           1,243.2 LCY/hr			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       60         Source of estimated swell       60         Materials consistency destinated       60	\$249.42           TITIES           60           25           68 LCY           ume:         Division of Reclam           01         Cat Handbook           2TION           100 feet           1,243.2 LCY/hr			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volution       6000000000000000000000000000000000000	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         311         Cat Handbook         27         100 feet         1,243.2 LCY/hr         escription:       Consolidated stop			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       60         Source of estimated swell       60         Materials consistency destinated       60	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         ell       Cat Handbook         25         CTION         100 feet         1,243.2 LCY/hr         escription:       Consolidated store         5 %			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volution       6000000000000000000000000000000000000	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         ell       Cat Handbook         25         CTION         100 feet         1,243.2 LCY/hr         escription:       Consolidated store         5 %			
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volution of estimated swell       8,10         Source of estimated swell       6000000000000000000000000000000000000	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         cat Handbook         2TION	ckpile 1.0		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       8,10         Source of estimated volu       9,10         Source of estimated swe       9,10         Auterials consistency de       9,10         Auterials consistency de       9,10         Auterial weight:       9,10         Veight description:       9,10	\$249.42         TITIES         60         25         68 LCY         ume:       Division of Reclam         cat Handbook         Cat Handbook         Cat Handbook         Cat Handbook         Consolidated store         5 %         8,200 feet         2,650 lbs/LCY         Decomposed rock - 25% Ref	ckpile 1.0		
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       8,10         Source of estimated volu       9,10         Source of estimated swe       9,10         Average push distance:       9,10         Source of estimated hourly       9,10         Source of estimated hourly       9,10         Auterials consistency de       9,10         Average push gradient:       9,10         Average site altitude:       9,10         Auterial weight:       9,10         Veight description:       9,00         Ob Condition Correction       9,10	\$249.42         TITIES         60         25         68 LCY         ume: Division of Reclam         cat Handbook         Cat Handbook         Cat Handbook         Cat Handbook         Cat Handbook         Cat Handbook         Consolidated stor         S %         8,200 feet         2,650 lbs/LCY         Decomposed rock - 25% Ro         n Factor	ckpile 1.0 ock, 75% Earth	_	
MATERIAL QUAN         Initial Volume:       7,20         Swell factor:       1.12         Loose volume:       8,10         Source of estimated volu       8,10         Source of estimated volu       9,10         Source of estimated swe       9,10         Auterials consistency de       9,10         Auterials consistency de       9,10         Auterial weight:       9,10         Veight description:       9,10	\$249.42         TITIES         60         25         68 LCY         ame: Division of Reclam         cat Handbook         Consolidated stop         Consolidated stop         Sign colspan="2">Consolidated stop         Consolidated rock - 25% Ro         Consolidated rock - 25% Ro         Consolidated rock - 25% Ro	ckpile 1.0		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	485.22 LCY/hr
Adjusted fleet production:	<b>485.22</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.514/LCY

Total job time:	16.83 Hours
Total job cost:	\$4,198.39

Elk Creek Mine	Permit Action:	Technical Revision 74	Permit/Job#:	C1981022
PROJECT IDENTIF	ICATION			
			A11 · · ·	λĭ
Task #: 363	State: Colorado		Abbreviation:	None
Date: 8/8/2013	County: Delta		Filename:	C022-363
User: BFB				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405				
L	ni-Universal			
Attachment: NA				
Shift Basis: 1 pe	er day			
Data Source: (CF				
<u></u>				
Cost Breakdown:		Utilization %		
Ownership Cost/Hour:	\$69.88	NA		
Operating Cost/Hour:	\$142.13	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
operator costribui.	\$37.11	INA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANI	\$249.42 \$249.42 TITIES			
Total Fleet Cost/Hour: MATERIAL QUANI Initial Volume:9,68	\$249.42 <u>TITIES</u> 0			
Total Fleet Cost/Hour: MATERIAL QUANI Initial Volume: 9,68 Swell factor: 1.12	\$249.42 <u>TITIES</u> 0			
Total Fleet Cost/Hour: MATERIAL QUANI Initial Volume: 9,68 Swell factor: 1.12	\$249.42 <u>TTIES</u> 0 5 90 LCY me:Division of Reclamate	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu       Source of estimated swel	\$249.42 TTTIES 0 5 90 LCY me: Division of Reclamat 1 Cat Handbook	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       Source of estimated swel         factor:       HOURLY PRODUCT	\$249.42 <u>TTIES</u> 0           5           90 LCY           me:         Division of Reclamate           1         Cat Handbook <u>FION</u>	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       Source of estimated swel         Source of estimated swel       factor:         HOURLY PRODUCT       Average push distance:	\$249.42 <u>TTIES</u> 0 5 90 LCY me: Division of Reclamat 1 Cat Handbook <u>FION</u> 100 feet	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       Source of estimated swel         Source of estimated swel       factor:         HOURLY PRODUCT       Average push distance:         Unadjusted hourly       Norther state	\$249.42 <u>TTIES</u> 0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook <u>FION</u>	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         TTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION         100 feet         1,243.2 LCY/hr			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       Source of estimated swel         Source of estimated swel       factor:         HOURLY PRODUCT       Average push distance:         Unadjusted hourly       Norther state	\$249.42         TTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION         100 feet         1,243.2 LCY/hr			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu       50         Source of estimated swelfactor:       10,8         HOURLY PRODUCT       4         Average push distance:       10         Unadjusted hourly       10         Materials consistency destination       10	\$249.42         TTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         CTTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION         100 feet         1,243.2 LCY/hr         scription:       Consolidated stock         5 %			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu       50         Source of estimated swelfactor:       10,8         HOURLY PRODUCT       4         Average push distance:       10         Unadjusted hourly       10         Materials consistency destination       10	\$249.42         TTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         CTTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION         100 feet         1,243.2 LCY/hr         scription:       Consolidated stock         5 %			
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         YTTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION         100 feet         1,243.2 LCY/hr         scription:       Consolidated stock         5 %         8,200 feet	pile 1.0	_	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         YTTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         FION	pile 1.0		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       9,68         Swell factor:       1.12         Loose volume:       10,8         Source of estimated volu:       3000000000000000000000000000000000000	\$249.42         TTIES         0         5         90 LCY         me:       Division of Reclamate         1       Cat Handbook         IION	pile 1.0		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	485.22 LCY/hr
Adjusted fleet production:	<b>485.22</b> LCY/hr

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.514/LCY	
4.1 : . 1. 4:	<b>22 44</b> Harris	

Total job time:	22.44 Hours
Total job cost:	\$5,597.85

Elk Creek Mine	Permit Action:	Technical Revision 74	Permit/Job#:	C1981022
PROJECT IDENTIFICA	<u>ATION</u>			
Task #: 364	State: Colorado		Abbreviation:	None
Date: 8/8/2013	County: Delta		Filename:	C022-364
User: BFB			-	
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	<u>COST</u>			
	T - 9SU			
Horsepower: 405				
1	Iniversal	_		
Attachment: NA	niversui	_		
Shift Basis: 1 per da		_		
Data Source: (CRG)	<u>.</u>			
Cost Breakdown:				
lost Dreakdown.		Utilization %		
Ownership Cost/Hour:	\$69.88	NA		
Operating Cost/Hour:	\$142.13	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
Initial Volume: 4,840 Swell factor: 1.125				
Loose volume: 5,445 LO	CY			
ource of estimated volume: ource of estimated swell actor:	Division of Reclamati Cat Handbook	on, Mining & Safety		
ource of estimated volume: ource of estimated swell	Cat Handbook	ion, Mining & Safety		
ource of estimated volume: ource of estimated swell actor:	Cat Handbook	ion, Mining & Safety		
ource of estimated volume: ource of estimated swell actor: HOURLY PRODUCTIO Average push distance: Jnadjusted hourly	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr			
ource of estimated volume: ource of estimated swell actor: <b>HOURLY PRODUCTIO</b> Average push distance: Jnadjusted hourly roduction: Materials consistency descrip	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr ption: Consolidated stocky			
ource of estimated volume: ource of estimated swell actor: <b>HOURLY PRODUCTIO</b> Average push distance: Jnadjusted hourly roduction: Materials consistency descrip Average push gradient:5	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr ption: Consolidated stock			
ource of estimated volume: ource of estimated swell actor: <b>HOURLY PRODUCTIO</b> Average push distance: Jnadjusted hourly roduction: Materials consistency descrip Average push gradient:5	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr ption: Consolidated stocky			
ource of estimated volume: ource of estimated swell actor: <b>HOURLY PRODUCTIO</b> Average push distance: Jnadjusted hourly roduction: Materials consistency descrip Average push gradient: <u>5</u> Average site altitude: <u>8</u>	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr ption: Consolidated stock			
ource of estimated volume:         ource of estimated swell         actor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly         roduction:         Materials consistency description         Average push gradient:       5         Average site altitude:       8         Material weight:       2	Cat Handbook <u>100 feet</u> <u>1,243.2 LCY/hr</u> ption: Consolidated stocky % <u>200 feet</u>			
ource of estimated volume: ource of estimated swell actor: <b>HOURLY PRODUCTIC</b> Average push distance: Jnadjusted hourly roduction: Materials consistency descrip Average push gradient: <u>5</u> Average site altitude: <u>8</u> Material weight: <u>2</u> , Veight description: <u>E</u> ob Condition Correction Fac	Cat Handbook N 100 feet 1,243.2 LCY/hr otion: Consolidated stock] % 200 feet 550 lbs/LCY arth - Dry packed ctor	pile 1.0		
ource of estimated volume:         ource of estimated swell         actor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly         roduction:         Aterials consistency description:         Average site altitude:         Aterial weight:         2         Veight description:	Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr	pile 1.0		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	504.24 LCY/hr
Adjusted fleet production:	<b>504.24</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.495/LCY

Total job time:	10.80 Hours
Total job cost:	\$2,693.35

Elk Creek Mine	Permit Action:	Technical Revision 74	Permit/Job#:	C1981022
<b>PROJECT IDENTIFI</b>	CATION			
Task #: 365	State: Colorado		Abbreviation:	None
Date: $\frac{303}{8/8/2013}$	County: Delta		Filename:	C022-365
User: BFB	County			C022-303
Agency or organi	ization name: DRMS			
HOURLY EQUIPME	NT COST			
	D9T - 9SU			
Horsepower: 405				
• •	i-Universal			
Attachment: NA				
	r day			
Data Source: (CR	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$69.88	NA		
Operating Cost/Hour:	\$142.13	100		
Ripper op. Cost/Hour:	\$0.00	0		
	\$37.41	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$249.42 <b>\$249.42</b> ITIES			
Total unit Cost/Hour:         Total Fleet Cost/Hour:	\$249.42 <b>\$249.42</b> ITIES			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       6,454         Swell factor:       1.125	\$249.42 <b>\$249.42</b> ITIES LCY	tion, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:         6,454         Swell factor:         1.125         Loose volume:         7,261         ource of estimated volum         ource of estimated swell	\$249.42 <b>\$249.42</b> ITIES LCY ne: Division of Reclama Cat Handbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         ource of estimated volum         ource of estimated swell         actor:         HOURLY PRODUCT	\$249.42 <b>\$249.42</b> <b>ITIES</b> LCY ne: Division of Reclama Cat Handbook <b>ION</b>			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         ource of estimated volum       ource of estimated swell         ource of estimated swell       actor:         HOURLY PRODUCT       Average push distance:         Jnadjusted hourly       1000000000000000000000000000000000000	\$249.42 <b>\$249.42</b> ITIES LCY ne: Division of Reclama Cat Handbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         Jource of estimated volum         ource of estimated swell         actor:         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly         roduction:	\$249.42 <b>\$249.42 ITIES</b> LCY ne: Division of Reclama Cat Handbook <b>ION</b> <u>100 feet</u> 1,243.2 LCY/hr	tion, Mining & Safety		
Yotal unit Cost/Hour:         Yotal Fleet Cost/Hour:         Yatterial Volume:         6,454         Swell factor:         1.125         Loose volume:         7,261         Source of estimated volum         ource of estimated swell         actor:         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly         roduction:         Materials consistency desc	\$249.42  \$249.42 <b>ITIES</b> LCY ne: Division of Reclama Cat Handbook  ION  100 feet 1,243.2 LCY/hr  cription: Consolidated stock	tion, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         Jource of estimated volum         ource of estimated swell         actor:         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly         roduction:	\$249.42 <b>\$249.42 ITIES</b> LCY ne: Division of Reclama Cat Handbook <b>ION</b> <u>100 feet</u> 1,243.2 LCY/hr	tion, Mining & Safety		
Yotal unit Cost/Hour:         Yotal Fleet Cost/Hour:         Yatterial Volume:         6,454         Swell factor:         1.125         Loose volume:         7,261         Source of estimated volum         Jource of estimated swell         actor:         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly         roduction:         Materials consistency desc         Average push gradient:	\$249.42  \$249.42 <b>ITIES</b> LCY ne: Division of Reclama Cat Handbook  ION  100 feet 1,243.2 LCY/hr  cription: Consolidated stock 5 %	tion, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         ource of estimated volum       ource of estimated swell         actor:       1000000000000000000000000000000000000	\$249.42 <b>\$249.42 ITIES</b> LCY ne:	tion, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         ource of estimated volum       ource of estimated swell         ource of estimated swell       actor:         HOURLY PRODUCT       Average push distance:         Inadjusted hourly       roduction:         Materials consistency desc       Average push gradient:         Average site altitude:       Material weight:         Veight description:	\$249.42 <b>\$249.42 ITIES</b> LCY ne: Division of Reclama Cat Handbook <b>ION</b> 100 feet 1,243.2 LCY/hr cription: Consolidated stock 5 % 8,200 feet 2,550 lbs/LCY Earth - Dry packed	tion, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       6,454         Swell factor:       1.125         Loose volume:       7,261         ource of estimated volum         ource of estimated swell         actor:         HOURLY PRODUCT         Average push distance:         Inadjusted hourly         roduction:         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:	\$249.42 \$249.42 ITIES LCY ne: Division of Reclama Cat Handbook ION 100 feet 1,243.2 LCY/hr cription: Consolidated stock 5 % 8,200 feet 2,550 lbs/LCY Earth - Dry packed Factor	tion, Mining & Safety		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	504.24 LCY/hr
Adjusted fleet production:	<b>504.24</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.495/LCY

Total job time:	14.40 Hours
Total job cost:	\$3,591.50

# **REVEGETATION WORK**

Task des	cription:	Broadcast Seed	Drill Pads			
Site: Elk C	reek Mine	Per	mit Action:	Technical Revision 74	Permit/Job#:	C1981022
<u>PROJE</u> Task	CT IDENTIFI	CATION State:	Colorado		Abbreviation:	None
Dat	e: 8/8/2013	County:	Delta		Filename:	C022-366
	er: BFB Agency or organi		RMS		-	

#### **FERTILIZING**

laterials Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Superphosphate, 0-20-0 with 12% S	90.00	pound	\$0.23	\$20.88
			Total Fertilizer Materials Cost/Acre	\$20.88

#### Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$15.36
Indian Ricegrass - Native	0.50	1.62	\$3.37
Mountain Brome - Bromar	2.00	3.21	\$6.80
Sandberg Bluegrass - VNS	1.50	31.85	\$13.02
Coreopsis, Lance Leafed	0.15	3.84	\$4.60
Western Wheatgrass - Arriba	2.00	5.05	\$7.36
Prairie Junegrass	0.25	13.29	\$8.60
Penstemon, Rocky Mountain	0.15	2.35	\$5.06
Yarrow, White	0.05	3.18	\$1.25
Totals Seed Mix	8.10	69.28	\$65.42

Application		
Description		Cost /Acre
Broadcast seeding [DMG]		\$261.28
	Total Seed Application Cost/Acre	\$261.28

# **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
<b>Total Mulch Materials Cost/Acre</b>				\$530.00

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres:	3	Cost /A	cre:	\$1,082.86
Estimate	ed Failure Rate:	50%	Cost /Ac	re*:	\$400.29
*Selected Replanti	ng Work Items:	FERTILIZING,SE	EDING		
Initial Job Cost:	\$3,248.58				
Reseeding Job Cost:	\$600.44				
Total Job Cost:	\$3,849.02				
Job Hours:	1.00				

# **REVEGETATION WORK**

Task description:		Broadcast Seed					
Site: Elk Creek Mine		Permit Action: <u>Technical Revision 74</u>		Permit/Job#:	C1981022		
]	PROJECI Task #:	<u> <b>IDENTIFI</b></u> 367	CATION State:	Colorado		Abbreviation:	None
	Date: User:	8/8/2013 BFB	County:	Delta		Filename:	C022-367
	Ag	ency or organiz	zation name:	RMS			

#### **FERTILIZING**

laterials Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Superphosphate, 0-20-0 with 12% S	90.00	pound	\$0.23	\$20.88
			Total Fertilizer Materials Cost/Acre	\$20.88

#### Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	<b>Total Fertilizer Application Cost/Acre</b>	\$52.71

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	1.50	4.89	\$15.36
Indian Ricegrass - Native	0.50	1.62	\$3.37
Mountain Brome - Bromar	2.00	3.21	\$6.80
Sandberg Bluegrass - VNS	1.50	31.85	\$13.02
Coreopsis, Lance Leafed	0.15	3.84	\$4.60
Western Wheatgrass - Arriba	2.00	5.05	\$7.36
Prairie Junegrass	0.25	13.29	\$8.60
Penstemon, Rocky Mountain	0.15	2.35	\$5.06
Yarrow, White	0.05	3.18	\$1.25
Totals Seed Mix	8.10	69.28	\$65.42

Application		
Description		Cost /Acre
Broadcast seeding [DMG]		\$261.28
	Total Seed Application Cost/Acre	\$261.28

# **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
<b>Total Mulch Materials Cost/Acre</b>				\$530.00

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

#### **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:	4	Cost /	Acre:	\$1,082.86
Estimate	ed Failure Rate:	50%	Cost /A	cre*:	\$400.29
*Selected Replanti	ng Work Items:	FERTILIZING,SE	EDING		
Initial Job Cost:	\$4,331.44				
Reseeding Job Cost:	\$800.58				
Total Job Cost:	\$5,132.02				
Job Hours:	1.88				