# STATE OF COLORADO

#### DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Piñeda Director

April 9, 2014

Mr. David Cressler Coal Bed Creek Construction, Inc. 03037 CR 2 Dove Creek, CO 81324

# Re: CBC Gravel Pit, Permit No. M-2009-030, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Cressler:

On April 9, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$10,166.62, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$1,188.62.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me.

Sincerely,

Kate A. Pickford Environmental Protection Specialist

cc: Travis H. Marshall, DRMS

## COST SUMMARY WORK

Task des	scription: 2014 Inspection				
Site:	CBC Gravel Pit	Permit Action:	2014 Inspe	ction Permit	/Job#: M2009030
<u>P</u>	ROJECT IDENTIFICATION       Task #:     000     State:     Colorade       Date:     4/8/2014     County:     Dolores       User:     KAP     Agency or organization name:     DRMS       ASK LIST (DIRECT COSTS)			Abbreviation: Filename:	None
<u> </u>	ASK DIST (DIRECT COSTS)	1			
Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Pit Slopes and Floor	DOZER	1	5.90	\$816.75
002	Haul Construction Debris to be Backfilled In Pit	LOADER	1	2.60	\$220.00
003	Spread Construction Debris Over Pit Floor	DOZER	1	4.91	\$679.44
004	Spread Erathen Cap over Construction Debris	DOZER	1	1.00	\$138.67
005	Carry Topsoil to Pit for Spreading	LOADER	1	4.37	\$370.00
006	Spread Topsoil Over Disturbed Area	DOZER	1	4.51	\$624.02
007	Rip Compaction on Disturbed Area	RIPPER	1	5.03	\$697.00
008	Revegetation	REVEGE	1	0.00	\$2,198.90
009	Mobilize	MOBILIZE	1	6.00	\$2,022.66
		SUBTO	DTALS:	34.32	\$7,767.44
IN	DIRECT COSTS				
0	VERHEAD AND PROFIT:				
	Liability insurance: 0.00%			Total =	50.00
	Performance bond: 0.00%				50.00
	Job superintendent: 17.16 hrs				\$1,122.44
	Profit: 10.00%				5776.74

 $\begin{array}{c} 31,122.44\\ \hline \\ & Total = \\ \hline \\ TOTAL O \& P = \\ \hline \\ CONTRACT AMOUNT (direct + O \& P) = \\ \end{array} \begin{array}{c} 31,122.44\\ \hline \\ \$776.74\\ \hline \\ \$1,899.18\\ \hline \\ \$9,666.62 \end{array}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	500.00	Total = Total =	500.00 \$0.00
Reclamation management and/or administration: CONTINGENCY:	0.00%	- Total =	\$0.00
CONTINGENCI.		NDIRECT COST =	\$0.00 \$2.399.18
TOTAL B		lirect + indirect) =	\$10,166.62

Task description:	Grade Pit Slopes	and Floor			v
te: CBC Gravel Pit	Perm	nit Action:	2014 Inspection	Permit/Job#:	M2009030
PROJECT IDENTIE	ICATION				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 4/8/2014	County:	Dolores		Filename:	M030-001
User: KAP					
Agency or orga	anization name:	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	at D6T LGP				
Horsepower: 20	0				
	raight	9 <del>8</del>			
	shank ripper				
	per day				
	RG)				
Cost Breakdown:					
Cost Breakdown:		I	I Itilization 0/		
Ownership Cost/Hour:	\$35.09		Utilization %		
Operating Cost/Hour:	\$65.97		NA		
Ripper op. Cost/Hour:			100		
	Variation of the second s		100		
Operator Cost/Hour:	\$37.41		NA		
Total unit Cost/Hour:	\$0.00				
Total Fleet Cost/Hour:	\$138.47				
10001100000000000000000					
MATERIAL QUANT	<b>FITIES</b>				
Initial Volume: 800					
Swell factor: 1.16					
Loose volume: 932	LCY	_			
Source of estimated volu	me: Division o	f Reclamati	on, Mining & Safety		
Source of estimated swel					
HOURLY PRODUC	TION				
Average push distance:	50 feet				
Unadjusted hourly produ	ection: 444.6 LCY/h	r			
Materials consistency des	scription: <u>Compac</u>	ted fill or en	nbankment 0.9		
Average push gradient:	0 %				
Average site altitude:					
Average site attitude:	7,800 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock -	50% Rock,	50% Earth		
Job Condition Correction	Factor		Source		
Operator		50	(AVG.)		
Material consist			(CAT HB))	C	
Dozing me			(GEN.)		
			(02)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3554	
Adjusted unit production: 15	8.01 LCY/hr	
Adjusted fleet production: 15	8.01 LCY/hr	

(s)
LCY

Total job time:	5.90 Hours	
Total job cost:	\$816.75	

# WHEEL LOADER - LOAD AND CARRY WORK

CBC Gravel Pit	Perr	nit Action:	2014 Inspection	Permit/Job#:	M2009030
					Freder all
PROJECT IDENTIFIC	ATION				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: 4/8/2014	County:	Dolores		Filename:	M030-002
User: KAP					
Agency or organization	ation name: DR	MS			
HOURLY EQUIPMEN	Г COST				
			**		
	AT 928HZ OPS Cab			• • • • • • • • • • • • • • • • • • •	149
Attachment 1:R	JPS Cab				er day
			Data	a Source: (C	CRG)
Cost Breakdown:		т			
	<b>#1CO</b>	-	Utilization %		
Ownership Cost/Hou			<u>NA</u>		
Operating Cost/Hou Operator Cost/Hou			100 NA		
Total Unit Cost/Hou	and the second second		INA		
Total Unit Cost/Hot	ш. <u> </u>	3			
Total Fleet Cost/Ho	ur: \$84.5	55			
MATERIAL QUANTIT	IES				
Initial volume: 500		CCY	Swell factor:	1.000	
Loose volume:	500	LCY	Swell lactor	1.000	
		-			
	stimated volume:		of Reclamation, Minin	g & Safety	
Source of estim	ated swell factor:	Cat Hand	book		
HOURLY PRODUCTIO	DN				
Loader Cycle Time:	Jnadjusted Basic (	Cycle Time (	load, dump, maneuver	r): 0.475	minutes
Cycle Time Factors			under annual a	Factor (min.)	Source
Material:	Bank or broken	material 0.0	4	0.040	(Cat HB)
Stockpile:	Dumped by truc			0.020	(Cat HB)
Truck Ownership:	No adjustment -		pplicable 0.00	0.000	(Cat HB)
Operation:	Inconsistent ope	ration 0.04		0.040	(Cat HB)
Dump Target:	No adjustment -			0.000	(Cat HB)
		Net Cyc	le Time Adjustment:	0.100	minutes
2					
			d Basic Cycle Time:	0.575	minutes

Haul:Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Return:Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	5.00	5.00	0.1411	(Cat HB)
Return Route:	200	0.00	5.00	5.00	0.1411	(Cat HB)

		Total Travel T Total Cycle T		minutes minutes
Load Bucket Capacity				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	1.100	LCY (heaped) Other - rock/dirt mixtures LCY	(100-120%) 1.100	
Job Condition Correction F Site Altitude: <u>7800</u> feet	actors			
Altitude Adj: Job Efficiency: Net Correction:		Source (CAT HB) (1 shift/day) multiplier		
Adj	usted Hourly Unit Pro usted Hourly Unit Pro 1sted Hourly Fleet Pro	oduction: 191.73	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	-			
Fleet size: 1	Loader(s)	Total job time:	2.61	Hours
Unit cost:\$0.44	1 /LCY	Total job cost:	\$220.00	

Task description:	Spread Construc	tion Debris	Over Pit Floor		
te: CBC Gravel Pit	Perr	nit Action:	2014 Inspection	Permit/Job#:	M2009030
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: 4/8/2014	County:	Dolores		Filename:	M030-003
User: KAP			45-300-018	· · · · · · · · · · · · · · · · · · ·	
Agency or organ	nization name:	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D6T LGP				
Horsepower: 200					
· · · · · · · · · · · · · · · · · · ·	light				
• • • • • • • • • • • • • • • • • • • •	ank ripper				
	er day				
Data Source: (CR					
Cost Breakdown:					
Cost Breakdown.		1	Utilization %		
Ownership Cost/Hour:	\$35.09		NA		
Operating Cost/Hour:	\$65.97		100		
Ripper op. Cost/Hour:	\$0.00		100		
Operator Cost/Hour:	\$37.41		NA		
			1111		
Total unit Cost/Hour:	\$0.00				
Total Fleet Cost/Hour:	\$138.47				
MATERIAL QUANT	ITIES				
Initial Volume: 500	)				
Swell factor: 1.000 Loose volume: 500 I		<u> </u>			
Loose volume: 500 I					
Source of estimated volun			on, Mining & Safety		
Source of estimated swell	factor: Cat Handb	ook			
HOURLY PRODUCT	ION				
Average push distance:	50 feet				
Unadjusted hourly produc		r			
<i>y</i>		605			
Materials consistency desc	cription: Rock, p	oorly ripped	or blasted 0.6		
Average push gradient:	0 %				
Average site altitude:	7,800 feet				
Material weight:	3,000 lbs/LCY			_	
Weight description:	User Provided				
Job Condition Correction	Factor		Source		
Operator S		50	(AVG.)		
Material consister		00	(CAT HB)		
Dozing met	hod: 1.0	00	(GEN.)		

.

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.767	(CAT HB)
Blade type:	1.000	(PAT)
Blade type: Net correction:	0.2292	(PAT)
Net correction:	0.2292	
djusted unit production: 10	1.90 LCY/hr	

Adjusted fleet production: 101.9 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.359/LCY

Total job time:	4.91 Hours	
Total job cost:	\$679.44	

Task description:	Spread Erathen	Cap over C	onstruction Debris		
e: CBC Gravel Pit	Peri	nit Action:	2014 Inspection	Permit/Job#:	M2009030
PROJECT IDENTIF	TICATION				
Task #: 004	State:	Colorado		Abbreviation:	None
Date: 4/8/2014	County:	Dolores		Filename:	M030-004
User: KAP			<u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>	-	
Agency or orga	nization name:DR	MS			
HOURLY EQUIPMI	ENT COST				
	t D6T LGP				
Horsepower: 20					
	aight				
	hank ripper				
	ber day				
	RG)				
Cost Breakdown:					
Boor Broardo Ma			Utilization %		
Ownership Cost/Hour:	\$35.09		NA		
Operating Cost/Hour:	\$65.97		100		
Ripper op. Cost/Hour:	\$0.00		0	1515. C	
Operator Cost/Hour:	\$37.41		NA		
Total unit Cost/Hour:	\$0.00				
Total Fleet Cost/Hour:	\$138.47				
MATERIAL QUANT	TITIES				
Initial Volume: 200					
	0				
	U				
Swell factor: 1.00	LCY				
Swell factor:1.00Loose volume:200	LCY	  of Reclamati	on Mining & Safety		
Swell factor: 1.00	LCY me: Division c		on, Mining & Safety		
Swell factor: 1.00 Loose volume: 200 Source of estimated volum	LCY me: Division c		on, Mining & Safety		
Swell factor: 1.00 Loose volume: 200 Source of estimated volum	LCY me: Division o l factor: Cat Handl		on, Mining & Safety		
Swell factor:     1.00       Loose volume:     200       Source of estimated volum       Source of estimated swell       HOURLY PRODUCT	LCY me: <u>Division c</u> l factor: <u>Cat Handl</u> <u><b>ГІО</b>М</u>		on, Mining & Safety		
Swell factor:1.00Loose volume:200Source of estimated volumSource of estimated swell	LCY me: <u>Division c</u> l factor: <u>Cat Handl</u> <u><b>FION</b> _50 feet</u>	book	on, Mining & Safety		
Swell factor:1.00Loose volume:200Source of estimated volumSource of estimated swellHOURLY PRODUCTAverage push distance:	LCY me: Division of l factor: Cat Handl FION 50 feet ction: 444.6 LCY/I	n			
Swell factor:     1.00       Loose volume:     200       Source of estimated volum     Source of estimated swell       HOURLY PRODUCT     Average push distance:       Unadjusted hourly product     Materials consistency destricts	LCY me:Division of l factor:Cat Handl FION ction:50 feet ction:444.6 LCY/I scription:Consoli	book			
Swell factor:     1.00       Loose volume:     200       Source of estimated volum     Source of estimated swell       HOURLY PRODUCT     Average push distance:       Unadjusted hourly product     Materials consistency destance:       Average push gradient:     Source destance:	LCY me: <u>Division c</u> l factor: <u>Cat Handl</u> <b><u>FION</u> ction: <u>50 feet</u> d 444.6 LCY/I cription: <u>Consoli</u></b>	n			
Swell factor:     1.00       Loose volume:     200       Source of estimated volum     Source of estimated swell       HOURLY PRODUCT     Average push distance:       Unadjusted hourly product     Materials consistency destricts	LCY me:Division of l factor:Cat Handl FION ction:50 feet ction:444.6 LCY/I scription:Consoli	n			
Swell factor:     1.00       Loose volume:     200       Source of estimated volum     Source of estimated swell       HOURLY PRODUCT     Average push distance:       Unadjusted hourly product     Materials consistency destance:       Average push gradient:     Source destance:	LCY me: <u>Division c</u> l factor: <u>Cat Handl</u> <b><u>FION</u> ction: <u>50 feet</u> d 444.6 LCY/I cription: <u>Consoli</u></b>	n			
Swell factor:1.00Loose volume:200Source of estimated volumSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency destAverage push gradient:Average site altitude:	LCY me: Division of l factor: Cat Handl FION ction: 50 feet ction: 444.6 LCY/f scription: Consoli 0 % 7,800 feet	n			
Swell factor:1.00Loose volume:200Source of estimated volumSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency destAverage push gradient:Average site altitude:Material weight:Weight description:	LCY me: Division of l factor: Cat Handl FION ction: 50 feet d44.6 LCY/f scription: Consoli 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed	n			
Swell factor:1.00Loose volume:200Source of estimated volumSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency destAverage push gradient:Average site altitude:Material weight:	LCY me: Division of l factor: Cat Handle FION ction: 50 feet ction: 444.6 LCY/f corription: Consolia 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed Factor	n			
Swell factor:1.00Loose volume:200Source of estimated voluSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency destAverage push gradient:Average site altitude:Material weight:Weight description:Job Condition Correction	LCY me: Division of l factor: Cat Handle FION ction: 444.6 LCY/f ceription: Consoli 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.7 ency: 1.0	nr dated stockp	vile 1.0		

ty: 1.000	(AVG.)
cy: 0.830	(1 SHIFT/DAY)
ile: 0.800	(SSD-AC)
ent: 1.000	(CAT HB)
de: 1.000	(CAT HB)
ht: 0.902	(CAT HB)
pe: 1.000	(PAT)
on: 0.4492	
199.71 LCY/hr	
	cy:       0.830         ile:       0.800         ont:       1.000         de:       1.000         ht:       0.902         pe:       1.000         on:       0.4492

Fleet size:	1 Dozer(s)
Unit cost:	\$0.693/LCY
Onn cost.	\$0.095/LC1

Total job time:	1.00 Hours	
Total job cost:	\$138.67	

# WHEEL LOADER - LOAD AND CARRY WORK

CBC Gravel Pit Permit Action: 2014 Inspection		
	Permit/Job#:	M2009030
PROJECT IDENTIFICATION		
Task #: 005 State: Colorado	Abbreviation:	None
Date: 4/8/2014 County: Dolores	Filename:	M030-005
User: KAP		
Agency or organization name: DRMS		
HOURLY EQUIPMENT COST		
Basic Machine:CAT 928HZ Horsepov	wer.	149
Attachment 1: ROPS Cab Shift Ba		er day
Data Sou		CRG)
	((	
Cost Breakdown:		
Utilization %		
Ownership Cost/Hour: \$16.07 NA		
Operating Cost/Hour: \$32.67 100		
Operator Cost/Hour: \$35.82 NA		
Total Unit Cost/Hour: \$84.55		
Total Fleet Cost/Hour: \$84.55		
MATERIAL QUANTITIES		
Initial volume: 950 CCY Swell factor: 1.00	00	
Loose volume: 950 LCY		
Source of estimated volume: Division of Reclamation, Mining &	Safety	
Source of estimated swell factor: Cat Handbook		
HOURLY PRODUCTION		
Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver):	0.475	minutes
Cycle Time Factors	Factor (min.)	Source
Material: Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile: No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership: No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation: No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target: Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:	0.000	minutes
Adjusted Basic Cycle Time:	0.475	minutes

Rolling Resistance - Road Conditions

Haul:	Rutted dirt, little maintenance, no water, 2" tire penetration 5.0	
Return:	Rutted dirt, little maintenance, no water, 2" tire penetration 5.0	

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	5.00	5.00	0.1411	(Cat HB)
Return Route:	200	0.00	5.00	5.00	0.1411	(Cat HB)

			otal Travel Tin		minutes
		Т	Fotal Cycle Tim	ne: 0.7572	minutes
Load Bucket Capacity					
Rated Capacit Bucket Fill Facto Adjusted Capacit	or: 1.100	LCY (heaped) Other - rock/d LCY	and a second	(100-120%) 1.100	
Job Condition Correction Site Altitude: 7800 feet	n Factors				
I	1.00 0.83 0.83 adjusted Hourly Unit Adjusted Hourly Unit	Production:	261.50 217.05 217.05	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND CO Fleet size:	2 <u>ST</u> 1 Loader(s)	Tot	tal job time:	4.38	Hours
Unit cost:\$0.	.390 /LCY	To	tal job cost:	\$370.00	

CBC Gravel Pit	Permit Action:	2014 Inspection	Permit/Job#:	M2009030
PROJECT IDENTIFIC	ATION			
Task #: 006	State: Colorado		Abbreviation:	None
Date: 4/8/2014	County: Dolores		Filename:	M030-006
User: KAP			service and the second s	
Agency or organization	ation name: DRMS			
HOURLY EQUIPMEN	T COST			
Basic Machine: Cat De	6T LGP			
Horsepower: 200		_		
Blade Type: Straig	ht			
	ik ripper			
Shift Basis: 1 per c				
Data Source: (CRG)				
Cost Breakdown:		Utilization %		
Ownership Cost/Hour:	\$35.09	NA		
Operating Cost/Hour:	\$65.97	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41			
Operator Cost/Hour.	\$57.41	NA		
Total unit Cost/Hour: \$	50.00			
Total Fleet Cost/Hour:	5138.47			
	TES			
MATERIAL QUANTIT	IES			
Initial Volume: 800	IES			
Initial Volume: 800 Swell factor: 1.125				
Initial Volume: 800				
Initial Volume:800Swell factor:1.125Loose volume:900 LC	Y	on. Mining & Safety		
Initial Volume: 800 Swell factor: 1.125	Y Division of Reclamati	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC cource of estimated volume:	Y Division of Reclamati	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Source of estimated volume: Source of estimated swell fac	Y Division of Reclamati ctor: Cat Handbook	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Source of estimated volume: Source of estimated swell fac HOURLY PRODUCTIO	Y Division of Reclamati ctor: Cat Handbook DN	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Source of estimated volume: Source of estimated swell fac HOURLY PRODUCTIC	Y Division of Reclamati ctor: Cat Handbook DN 50 feet	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Source of estimated volume: Source of estimated swell fac HOURLY PRODUCTIO	Y Division of Reclamati ctor: Cat Handbook DN 50 feet	on, Mining & Safety		
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Source of estimated volume: Source of estimated swell fac HOURLY PRODUCTIC	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr			
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC Cource of estimated volume: Cource of estimated swell fac HOURLY PRODUCTIC Verage push distance: Inadjusted hourly production Materials consistency descrip	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp			
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC cource of estimated volume: cource of estimated swell fac HOURLY PRODUCTIC verage push distance: Inadjusted hourly production faterials consistency descrip	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp			
Initial Volume: 800 Swell factor: 1.125 Loose volume: 900 LC cource of estimated volume: cource of estimated swell fac HOURLY PRODUCTIC verage push distance: Inadjusted hourly production faterials consistency descrip	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:       Source of estimated swell factor:       Source of estimated swell factor:       HOURLY PRODUCTION       Average push distance:       Inadjusted hourly production       Atterials consistency description       Average push gradient:     0       Average site altitude:     7	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp % ,800 feet			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:       Source of estimated swell factor:       Source of estimated swell factor:       HOURLY PRODUCTION       Average push distance:       Inadjusted hourly production       Atterials consistency description       Average push gradient:     0       Average site altitude:     7	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:       Source of estimated swell factor:       Source of estimated swell factor:       HOURLY PRODUCTION       Average push distance:       Unadjusted hourly production       Atterials consistency description       Average site altitude:     7       Atterial weight:     2	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp % ,800 feet			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:       Source of estimated swell factor:       Source of estimated swell factor:       HOURLY PRODUCTION       Average push distance:       Unadjusted hourly production       Atterials consistency description       Average site altitude:     7       Atterial weight:     2	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp % 800 feet ,550 lbs/LCY Carth - Dry packed			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:     900 LC       Source of estimated volume:     900 LC       Source of estimated swell fac     800       HOURLY PRODUCTION     1000 LC       Average push distance:     900 LC       Inadjusted hourly production     1000 LC       Average push distance:     1000 LC       Average push distance:     1000 LC       Average push gradient:     0       Average site altitude:     7       Material weight:     2       Veight description:     E       Dob Condition Correction Fac     0       Operator Skil     1000 LC	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp % ,800 feet ,550 lbs/LCY Earth - Dry packed ctor l: 0.750			
Initial Volume:     800       Swell factor:     1.125       Loose volume:     900 LC       Source of estimated volume:       Source of estimated volume:       Source of estimated swell fac       HOURLY PRODUCTION       Average push distance:       Unadjusted hourly production       Aterials consistency description:       Average site altitude:       7       Aterial weight:       2       Veight description:       E       Db Condition Correction Face	Y Division of Reclamati ctor: Cat Handbook DN 50 feet n: 444.6 LCY/hr ption: Consolidated stockp % ,800 feet ,550 lbs/LCY Carth - Dry packed ctor l: 0.750 y: 1.000	bile 1.0		

Visibili	ty: 1.000	0 (AVG.)
Job efficience	cy: 0.830	0 (1 SHIFT/DAY)
Spoil pi	le: 0.800	0 (SSD-AC)
Push gradie	nt: 1.000	0 (CAT HB)
Altitud	le: 1.000	0 (CAT HB)
Material Weig	ht: 0.902	2 (CAT HB)
Blade typ	be: 1.000	0 (PAT)
Net correction	on: 0.4492	
Adjusted unit production:	199.71 LCY/hr	
Adjusted fleet production:	199.71 LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.693/LCY	

Total job time:	4.51 Hours	
Total job cost:	\$624.02	

### BULLDOZER RIPPING WORK

	Task description:	Rip Compaction on Dist	turbed Area					
Site	: CBC Gravel Pit	Permit Acti	on: 2014 Inspection	Permit/Job#:	M2009030			
	PROJECT IDENT	<b>IFICATION</b>						
	Task #: 007 Date: 4/8/2014 User: KAP	State: Color County: Dolor	VIOR INCO	Abbreviation: Filename:	None M030-007			
	Agency or or	ganization name: DRMS						
	HOURLY EQUIPMENT COST							
	Basic Mach Ripper Attachm			Shift Basis: 1 p	200 per day CRG)			
	Cost Breakdown:							
	Or Ripper Or C	nership Cost/Hour:	\$35.09 \$65.97 \$0.00 \$37.41 \$138.47	Jtilization % NA 100 100 NA				
			\$138.47					
	MATERIAL QUAN Alternate Methods:	IIIIES	Selected estimating m	ethod: Area				
Seismic: Area:	Sour	Bank Volum acres Rip Depth (f	t): 0.50	BCY Volume: 2,420	NA BCY or CCY			
	HOURLY PRODU	<u>UTION</u>						
	Seismic:	Seismic Velocity:	NA	feet/second				
	Area:							
		Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed: Average Maneuver Time: Production per unit area:	1.64 6.58 200.00 88.00 0.25 0.719	mph degrees feet feet feet				
	Job Condition Correction		0.719	acres/hour				
		ed Hourly Unit Production:	0.719	Acres/hr				
		Site Altitude:		feet (CAT HB) (1 shift/day) multiplier Acres/hr Acres/hr				
:	JOB TIME AND CO							
	Fleet size:	1 Grader(s)	Total job time:	5.03	Hours			
	Unit cost: \$23	2.182 Per acre	Total job cost:	\$697.00				

# **REVEGETATION WORK**

	ask description:	Revegetation						
:	CBC Gravel Pit	F	Permit Acti	on: _201	4 Inspectio	on	Permit/Job	#: M2009030
<u>P1</u>	ROJECT IDENTIFI	CATION						
Task #: 008 State: Colorado Abbreviation						None		
	Date: 4/8/2014 County: Dolores Filename:							
	User: KAP							
	Agency or organ	ization name:	DRMS					
FI	ERTILIZING							
M	aterials							
I	Description			Units / Acre	Unit	Co	ost / Unit	Cost /Acre
						\$		\$
						Т	otal Fertilizer Materials	
							Cost/Acre	\$0.00
Ap	oplication							
r	Description							Cost (A are
D	Description							Cost /Acre
D	Description							Cost /Acre \$
D	Description			Total	l Fertilizer	· Applicati	on Cost/Acre	
	Description			Tota	l Fertilizer	·Applicati	on Cost/Acre	\$
TI	LLING			Total	l Fertilizer	· Applicati	on Cost/Acre	\$ \$0.00
TI		леans 31 31 16	5.13 3100)	Tota	l Fertilizei	· Applicati	on Cost/Acre	\$ \$0.00 Cost /Acre
	LLING Description	ЛЕANS 31 31 16	5.13 3100)	Tota			on Cost/Acre	\$ \$0.00
TI D W	LLING Description	ИEANS 31 31 16	5.13 3100)	Tota				\$ \$0.00 Cost /Acre \$145.20
	LLING Description Veed control spraying (N EDING	ЛЕANS 31 31 16	5.13 3100)	Tota			ng Cost/Acre	\$ \$0.00 Cost /Acre \$145.20 \$145.20
TI D W SE	LLING Description Veed control spraying (N	ИEANS 31 31 16	5.13 3100)	Tota		Total Tilli Rate – PLS LBS /		\$ \$0.00 Cost /Acre \$145.20
	LLING Description Veed control spraying (N EDING		5.13 3100)	Total		Total Tilli Rate – PLS	ng Cost/Acre Seeds per SQ.	\$ \$0.00 Cost /Acre \$145.20 \$145.20

Description		Cost /Acre
Broadcast seeding [DMG]		\$261.28
	Total Seed Application Cost/Acre	00/1 00
	Total Seeu Application Cost/Acre	\$261.28

## **MULCHING and MISCELLANEOUS**

#### Materials

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

#### Application

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

## NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Tot	als Nursery Stoc	ek Cost / Acre	\$0.00

	No. of Acres: ed Failure Rate: ng Work Items:	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$439.78 \$2,198.90		
JOD HOURS.	0.00		

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: <u>Mo</u>	DIIIZe					
CBC Gravel	Pit	Permit A	Action: _ 2014 I	nspection	Pe	ermit/Job#:N	12009030
PROJECT IE	ENTIFICAT	ION					
Task #:00		State: _Co	olorado		Abbi	eviation: N	one
	8/2014 AP	County: Do	olores		F	Filename: M	1030-009
Agenc	y or organizatio	n name: DRMS					
EQUIPMENT	TRANSPOL	RT RIG COST					
					Shift b	asis: 1 ne	er day
					Cost Data Sou		d Data
Tru	ck Tractor Desc	cription: GEN	ERIC ON-HIGH	WAY TR	UCK TRACTO	OR 6X4 DIE	SEL POWERED,
					(2ND HALF,		JEE TO WERED,
Tru	ick Trailer Desc	ription: GENE	RIC FOLDING				MENT TRAILER
					, 50T, AND 10		
Cost Breakdown							
Available Rig C	ip Cost/Hour:	0-25 Tons \$16.63	26-50 Tons		+ Tons		
	ng Cost/Hour:	\$10.03	\$18.37 \$46.13		22.33		
		\$27.66	\$40.13		50.07		
Operator Cost/Hour:			\$27.00	۵.	27.66		
			\$25.20	¢	25.20		
Help	er Cost/Hour:	\$0.00	\$25.39 \$117.55		25.39		
Help			\$25.39 \$117.55		25.39 125.45		
Help Total Ur	er Cost/Hour: it Cost/Hour:	\$0.00 \$88.67					
Help Total Ur NON ROADA	er Cost/Hour: it Cost/Hour: BLE EQUIP	\$0.00 \$88.67 MENT:					
Help Total Ur NON ROADA Machine	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/	\$0.00 \$88.67 MENT: Owner ship	\$117.55 Haul Rig	\$1 Fleet		Return Trip	
Help Total Ur	er Cost/Hour: hit Cost/Hour: BLE EQUIP Weight/ Unit	\$0.00 \$88.67 MENT:	\$117.55	\$1	Haul Trip Cost/hr/	Return Trip Cost/hr/ flee	
Help Total Ur NON ROADA Machine Description	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS)	\$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	\$117.55 Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Cost/hr/ flee	
Help Total Ur NON ROADA Machine Description Cat D6T LGP	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS) 28.63	\$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$0.00	\$117.55 Haul Rig Cost/hr/unit \$117.55	Fleet Size	Haul Trip Cost/hr/ fleet \$117.55	Cost/hr/ flee \$117.55	et Cost/ fleet
Help Total Ur NON ROADA Machine Description Cat D6T LGP CAT 928HZ	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS) 28.63 13.91	\$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$0.00 \$16.07	\$117.55 Haul Rig Cost/hr/unit \$117.55 \$88.67	Fleet Size	Haul Trip Cost/hr/ fleet \$117.55 \$104.74	Cost/hr/ flee \$117.55 \$88.67	\$0.00 \$0.00
Help Total Ur NON ROADA Machine Description Cat D6T LGP CAT 928HZ Drill/Broadcast	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS) 28.63 13.91 25.00	\$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$0.00	\$117.55 Haul Rig Cost/hr/unit \$117.55	Fleet Size	Haul Trip Cost/hr/ fleet \$117.55	Cost/hr/ flee \$117.55	et Cost/ fleet
Help Total Ur NON ROADA Machine Description Cat D6T LGP CAT 928HZ	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS) 28.63 13.91 25.00	\$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$0.00 \$16.07	\$117.55 Haul Rig Cost/hr/unit \$117.55 \$88.67	Fleet Size	Haul Trip Cost/hr/ fleet \$117.55 \$104.74	Cost/hr/ flee \$117.55 \$88.67	\$0.00 \$0.00
Help Total Ur NON ROADA Machine Description Cat D6T LGP CAT 928HZ Drill/Broadcast	er Cost/Hour: it Cost/Hour: BLE EQUIP Weight/ Unit (TONS) 28.63 13.91 25.00	\$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$0.00 \$16.07	\$117.55 Haul Rig Cost/hr/unit \$117.55 \$88.67 \$88.67	Fleet Size	Haul Trip Cost/hr/ fleet \$117.55 \$104.74	Cost/hr/ flee \$117.55 \$88.67	\$0.00 \$0.00

# **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.	\$15.34	1	\$15.34	\$15.34
		Subtotals:	\$15.34	\$15.34

#### Task # 009

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	CORTEZ	
Total one-way travel distance:	45.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,991.98	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$30.68	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

Total job time:	6.00	Hours
Total job cost:	\$2,022.66	