# 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

October 8, 2013

Mr.. Joe Kozimor Consolidated Constructors, Inc. P.O. Box 629 Farmington, NM 87499

## Re: Amzak Pit, Permit No. M-2003-003, Financial Warranty Increase, Revision No. SI-1

Dear Mr.. Kozimor:

On October 8, 2013 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$133,165.10, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$14,378.10.

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

# COST SUMMARY WORK

## Task description: 2013 Inspection

Site: Amzak P	it		Permit Action:	2013 Inspection Permit	/Job#:M2003003
PROJECT	<b>IDENTIFICA</b>	TION			
Task #: Date:	000 10/8/2013	State: County:	Colorado La Plata	Abbreviation: Filename:	None M003-000
User: Ag	KAP ency or organizati	 ion name:	MS		

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce vertical highwalls to 3:1	DOZER	1	156.86	\$40,450.10
002	Haul overburden to be spread on disturbance	SCRAPER1	1	76.87	\$18,221.49
003	Spread overburden 8 inches deep over surface	DOZER	1	20.32	\$5,239.15
004	Haul topsoil to spread on disturbance	SCRAPER1	1	45.94	\$10,890.19
005	Spread Topsoil 4 inches deep over surface	DOZER	1	9.78	\$2,521.17
006	Remove sediment control berms from bench	LOADER	1	1.94	\$164.00
007	REmove concrete scale ramps, dispose of debris	DEMOLISH	1	0.00	\$248.64
008	Rip to remove compation on road, scale and processing areas	RIPPER	1	6.95	\$1,849.00
009	Revegetation	REVEGE	1	25.00	\$27,892.96
010	Mobilize/Demobilize	MOBILIZE	1	5.70	\$3,369.42
		SUBTO	OTALS:	349.36	\$110,846.12

## **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

Liability insurance:	0.00%		Total =	\$0.00
Performance bond:	0.00%		Total =	\$0.00
Job superintendent:	113.27 hrs		Total =	\$7,408.99
Profit:	10.00%		Total =	\$11,084.61
			TOTAL O & P =	\$18,493.60
	CON	TRACT AMOUNT	(direct + O & P) =	\$129,339.72
LEGAL - ENGINEERING - PR		`:		
Financial warranty process		500.00	Total =	500.00
Engineering work and/or of		0.00%	Total =	\$0.00
Reclamation management	nt and/or administration:	0.00%		\$0.00
	CONTINGENCY:	3.00	Total =	\$3,325.38
		TOTAL IN	NDIRECT COST =	\$22,318.98
	TOTAL BO	OND AMOUNT (d	irect + indirect) =	\$133,165.10

## BULLDOZER WORK

Amzak Pit	Perm	it Action:	2013 Inspection	_ Permit/Job#:	M2003003
<b>PROJECT IDENTIFIC</b>	CATION				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 9/27/2013		La Plata		Filename:	M003-001
User: KAP				-	
Agency or organi	zation name:DRM	⁄IS			
HOURLY EQUIPMEN	NT COST				
	D9T - 9SU				
Horsepower: 405	571 750				
<b>.</b>	i-Universal	4			
21	ank ripper				
Shift Basis: 1 per	**				
Data Source: (CRO					
Cost Breakdown:	··· /				
Jost Dicakuowii.		*	Utilization %		
Ownership Cost/Hour:	\$78.33		NA		
Operating Cost/Hour:	\$142.13		100	0	
Ripper op. Cost/Hour:	\$0.00		0		
Operator Cost/Hour:	\$37.41				
operator costribut.	\$37.41		NA		
'otal unit Cost/Hour:	\$257.87				
otal Fleet Cost/Hour:	\$257.87				
-					
otal Fleet Cost/Hour:					
IATERIAL QUANTI	TIES				
IATERIAL QUANTI	TIES				
Initial Volume: 53,333 Swell factor: 1.430	TIES 3				
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260	TIES 3 6 LCY				
Initial Volume:         53,333         Swell factor:         1.430         Loose volume:         76,260         ource of estimated volume	TIES 3 6 LCY e: _Division of		on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260	TIES 3 6 LCY e: _Division of		on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell for the state of	TIES 3 6 LCY e: Division of factor: Cat Handbo		on, Mining & Safety		
Initial Volume:         53,333         Swell factor:         1.430         Loose volume:         76,260         ource of estimated volume	TIES 3 6 LCY e: Division of factor: Cat Handbo		on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI	TIES 3 6 LCY e: Division of factor: Cat Handbo		on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:	TIES 3 6 LCY e: Division of factor: Cat Handbo ION 130 feet	ook	on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volumource of estimated swell for the system       1.430         Initial Volume:       76,260         ource of estimated volumource of estimated swell for the system       1.430         Initial Volume:       76,260         Ource of estimated volumource of estimated swell for the system       1.430         Initial Volume:       1.430         Initial Volume:       1.430         Ource of estimated volume       1.430         Initial Volume:       1.430         Ource of estimated swell for the system       1.430         Initial Volume:       1.430	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/	bok hr			
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/	bok hr	on, Mining & Safety		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         .verage push distance:         inadjusted hourly producti         faterials consistency description	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/	bok hr			
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         Inadjusted hourly producti         faterials consistency description         verage push gradient:	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/         ription:       Compactor         -25 %	bok hr			
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         .verage push distance:         inadjusted hourly producti         faterials consistency description	TIES 3 6 LCY e:	bok hr			
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         Inadjusted hourly producti         faterials consistency description         verage push gradient:	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/         ription:       Compactor         -25 %	bok hr			
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         nadjusted hourly production         faterials consistency description         verage push gradient:         verage site altitude:         laterial weight:	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY//         ription:       Compacts         -25 %       7,100 feet         3,300 lbs/LCY	hr ed fill or er	nbankment 0.9		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         nadjusted hourly production         faterials consistency description:         verage site altitude:         verage site altitude:	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY/         ription:       Compacte         -25 %       7,100 feet         3,300 lbs/LCY       Decomposed rock - 7	hr ed fill or er	nbankment 0.9 25% Earth		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         nadjusted hourly production         faterials consistency description:         verage site altitude:         verage fush gradient:         b Condition Correction F	TIES 3 6 LCY e: Division of factor: Cat Handbo ION ion: 130 feet ion: 1,026.6 LCY/ ription: Compacte -25 % 7,100 feet 3,300 lbs/LCY Decomposed rock - 7 factor	hr ed fill or ei 	nbankment 0.9 25% Earth Source		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         inadjusted hourly production         iaterials consistency description:         verage push gradient:         verage site altitude:         iaterial weight:         /eight description:         ob Condition Correction F	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY//         ription:       Compacts         -25 %         7,100 feet         3,300 lbs/LCY         Decomposed rock - 7         Cactor         cill:       0.75	bok hr ed fill or en 	nbankment 0.9 25% Earth <u>Source</u> (AVG.)		
Initial Volume:       53,333         Swell factor:       1.430         Loose volume:       76,260         ource of estimated volume         ource of estimated volume         ource of estimated swell f         IOURLY PRODUCTI         verage push distance:         nadjusted hourly production         faterials consistency description:         verage site altitude:         verage fush gradient:         b Condition Correction F	TIES         3         6 LCY         e:       Division of         factor:       Cat Handbo         ION         ion:       130 feet         1,026.6 LCY//         ription:       Compacts         -25 %       7,100 feet         3,300 lbs/LCY       Decomposed rock - 7         Decomposed rock - 7       0.75         icil:       0.75         icy:       0.90	bok hr ed fill or en 	nbankment 0.9 25% Earth Source		

Visibili	ity:	1.000	(AVG.)
Job efficien	cy:	0.830	(1 SHIFT/DAY)
Spoil p	ile:	0.800	(SSD-AC)
Push gradie	ent:	1.516	(CAT HB)
Altitu	de:	1.000	(CAT HB)
Material Weig	;ht:	0.697	(CAT HB)
Blade ty	pe:	1.000	(PAT)
Net correction	on: _(	0.4736	
Adjusted unit production:	486.	20 LCY/hr	
Adjusted fleet production:	486.	2 LCY/hr	

1 Dozer(s)	
\$0.530/LCY	

Total job time:	156.86 Hours	
Total job cost:	\$40,450.10	

# SCRAPER TEAM WORK

Site: Amzak Pit		Permit Action:	2013 Inpsection	n Per	rmit/Job#: M200	3003
PROJECT IDEN	TIFICATION					
Task #: 002		State: Colorado		Abbre	eviation: None	
Date: $10/8/2$	in the second	unty: La Plata			lename: M003-	002
User: KAP						002
A genery or	organization name:	DRMS				
Agency of	organization name.	DIGNIS				
HOURLY EQUI	<u>PMENT</u>		COSTS	hift basis: <u>1 per c</u>	day	
			ent Description			
		Craper: Cat 62. -Dozer: NA	30			
Suppo	ort Equipment -Loa					
	-Dum	p Area: NA				
Road Ma	aintenance – Motor	Grader: NA	155			
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wo	rk Team	Support Equip	ment	Maintenance	Fauinme
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water
%Utilization-machine:	100	NA	NA	NA	NA	N
Ownership cost/hour:	\$72.49	NA	NA	NA	NA	N
Operating cost/hour:	\$134.54	NA	NA	NA	NA	N
Ripper op. cost/hour:	NA	NA	NA	NA	NA	N
Operator cost/hour:	\$30.02	NA	NA	NA	NA	N.
Unit Subtotals:	\$237.05	NA	NA	NA	NA	N
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$237.05	Support:	\$0.00	Maint:	\$0.
Total work team cost	t/hour: <u>\$237.05</u>					
MATERIAL QUA	ANTITIES					
Initial volume:	20,436	CCY	Swell fact	or: 1.000		
Loose volume:	20,436	LCY	Swell luct			
Sou	rce of estimated vo	lumo: Division	of Declamation )	Aining & Oafat.		
	of estimated swell f		of Reclamation, N	anning & Safety		
HOURLY PROD	UCTION					
			Scraper Bo	wl (volume) Bas	<u>is:</u>	
Material weight:	2,650 lbs/LCY		Struck V			CY
Material description:	Decomposed rock 75% Earth	< - 25% Rock,	Heaped V	/olume: 23.00	LC	CY
Rated Payload:	55,200 pounds		Average V	/olume: 20.50	LC	CY
Payload Capacity:	20.83 LCY		Adjusted C		LC	

0.90 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

#### Job Condition Correction:

# 0.70 Minutes

Site Altitude: 7100 feet

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

#### Travel Time:

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

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	10.00	5.00	15.00	427	1.88

Haul Time: 1.88 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-10.00	5.00	-5.00	2774	0.36

	0.00	minutes
Total Scraper team cycle time:	3.84	minutes
Adjusted for job conditions:	265.86	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	265.86	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	265.86	LCY/Hour

Unadjusted unit production/hour: <u>320.31</u> LCY/Hour Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	76.87	Hours
Unit cost:	\$0.892	/LCY	Total job cost:	\$18,221.49	

## BULLDOZER WORK

Task description:	Spread overburde	en 8 inches	deep over surface		
e: Amzak Pit	Perm	it Action:	2013 Inspection	Permit/Job#:	M2003003
PROJECT IDENTI	<b>FICATION</b>				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: 9/27/2013		La Plata		Filename:	M003-003
User: KAP				-	11005 005
Agency or org	anization name: DRI	MS			
HOURLY EQUIPM	IENT COST				
	at D9T - 9SU				
	05				
L	emi-Universal		<u></u>		
	-shank ripper		_		
	per day CRG)	- (d)-			
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour			NA		
Operating Cost/Hour:			100		
Ripper op. Cost/Hour:			0		
Operator Cost/Hour:	\$37.41		NA		
Total unit Cost/Hour:	\$257.87				
Total Fleet Cost/Hour:	\$257.87				
1010111001 000011000	<i>Q231.01</i>				
MATERIAL QUAN	TITIES				
Initial Volume: 20,	436				
Swell factor: 1.0		-			
	436 LCY				
		-			
Source of estimated volu			on, Mining & Safety		
Source of estimated swe	ell factor: Cat Handb	ook			
HOURLY PRODUC	CTION				
Average push distance:	50 feet				
Unadjusted hourly produced		/br			
Onaujusted nourry prod	2,110.5 LC 1	111			
Materials consistency de	escription: Compact	ed fill or er	nbankment 0.9		
Average push gradient:	-10 %				
Average site altitude:	7,100 feet	_			
nverage site attitude.	7,100 1001	-			
Material weight:	2,650 lbs/LCY	Sec. com			
Weight description:	Decomposed rock -	25% Rock,	75% Earth		
Job Condition Correctio	n Factor		Source		
Operator		50	(AVG.)		
Material consis			(CAT HB))	<u>1997 - 199</u>	
Dozing m			(GEN.)	- <u>()</u>	
	1.00				

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4766	
Adjusted unit production: 1,0	05.86 LCY/hr	
Adjusted fleet production: 100	5.86 LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.256/LCY	
Total job time:	20.32 Hours	

## Page 1 of 2

# SCRAPER TEAM WORK

Site: Amzak Pit		Permi	t Action:	2013 Inpsection	n Per	mit/Job#: <u>M</u>	2003003
PROJECT IDEN	TIFICATION						
Task #: 004		State:	Colorado		Abbre	viation: No	me
Date: 10/8/2	013 Co	unty: 🗍	La Plata				003-004
User: KAP							
Agency or	organization name	DRM	IS				
HOURLY EQUI	PMENT			COSTSI	hift basis: <u>1 per c</u>	lay	
				nt Description			
		Scraper:	Cat 623	G			
Suppo	ort Equipment -Loa	-Dozer:	NA NA		115		
Suppo		p Area:	NA				
Road Ma	intenance - Motor		NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wo	rk Team		Support Equip	oment	Maintena	ince Equipme
	Scraper	Do	zer	Load Area	Dump Area	Motor Grad	
%Utilization-machine:	100	N.	A	NA	NA	NA	N
Ownership cost/hour:	\$72.49	N	A	NA	NA	NA	N
Operating cost/hour:	\$134.54	N	A	NA	NA	NA	N
Ripper op. cost/hour:	NA	N	A	NA	NA	NA	N
Operator cost/hour:	\$30.02	N	A	NA	NA	NA	N
Unit Subtotals:	\$237.05	N	A	NA	NA	NA	N
Number of Units:	1	0		0	0	0	
Group Subtotals:	Work:	\$237	7.05	Support:	\$0.00	Main	nt: \$0
Total work team cost	/hour: <u>\$237.05</u>						
MATERIAL QUA	NTITIES						
Initial volume:	10,218		CCY	Swell fact	or: 1.000		
Loose volume:	10,218		LCY				
	rce of estimated vo			of Reclamation, N	Aining & Safety		
Source of	of estimated swell	factor:	Cat Hand	book			
HOURLY PROD	UCTION						
, <u></u>				Scraper Bo	wl (volume) Bas	is:	
Material weight:	2,650 lbs/LCY			Struck V			LCY
Material description:	Decomposed roc 75% Earth	k - 25% F	Rock,	Heaped V			LCY
Rated Payload:	55,200 pounds			Average V			LCY
Payload Capacity:	20.83 LCY			Adjusted C	apacity: 20.50		LCY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

0.90 Minutes 0.70 Minutes

Site Altitude: 7100 feet

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

#### Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	10.00	8.00	18.00	304	2.63

Haul Time: 2.63 minutes

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-10.00	8.00	-2.00	2774	0.36
				Return Time:	<b>0.36</b> r	ninutes
				er team cycle time:	4.59	minutes
			Adjusted	for job conditions:	222.42	LCY/Hour
			Selected Nu	umber of Scrapers:	1	Scraper(s)
	Adjuste	d single scrap	per team (unit)	hourly production:	222.42	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet)	hourly production:	222.42	LCY/Hour
	I Inadivated unit and	duction/hour:	267.97	LCY/Hour		

Fleet size:	1	Team(s)	Total job time:	45.94	Hours
Unit cost:	\$1.066	/LCY	Total job cost:	\$10,890.19	

## BULLDOZER WORK

Amzak Pit	Permit Action	n: 2013 Inspection	Permit/Job#:	M2003003
PROJECT IDENTIFI	CATION			
Task #: 005	State: Colorad	lo	Abbreviation:	None
Date: 9/27/2013	County: La Plat	a	Filename:	M003-005
User: KAP				
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D9T - 9SU			
Horsepower: 405				
L	i-Universal			
	ank ripper			
Shift Basis: 1 per				
Data Source: (CRC				
Cost Breakdown:		T 14:1: 04		
Ownership Cost/Hour:	\$78.33	Utilization %		
Operating Cost/Hour:	\$142.13	NA 100		
Ripper op. Cost/Hour:	\$142.13	100		
		0		
Onenates Orestitt	007 41			
Operator Cost/Hour: _	\$37.41	NA		
Operator Cost/Hour: Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$37.41 \$257.87 <b>\$257.8</b> 7	NA		
Fotal unit Cost/Hour:	\$257.87 \$257.87 TIES	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:10,218	\$257.87 \$257.87 TIES	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 10,218 Swell factor: 1.000	\$257.87 \$257.87 TIES 3	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:10,218	\$257.87 \$257.87 TIES 3	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 10,218 Swell factor: 1.000	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 BLCY			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 3 3 LCY e: Division of Reclam	ation, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       10,000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated swell factor:       10,218	\$257.87 \$257.87 TIES B BLCY e: Division of Reclam actor: Cat Handbook			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTI	\$257.87 \$257.87 TIES B BLCY e: Division of Reclam actor: Cat Handbook			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume         Source of estimated volume         Gource of estimated swell factor:         HOURLY PRODUCTI         Average push distance:	\$257.87 \$257.87 TIES 3 BLCY e: Division of Reclam Cat Handbook ON 50 feet			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTI	\$257.87 \$257.87 TIES 3 BLCY e: Division of Reclam Cat Handbook ON 50 feet			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume         Source of estimated volume         Gource of estimated swell factor:         HOURLY PRODUCTI         Average push distance:	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>B</b> LCY e: Division of Reclam actor: Cat Handbook <b>CON</b> <u>50 feet</u> ion: 2,110.5 LCY/hr			
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Source of estimated swell f       10,218         Average push distance:       10,218         Initial Volume:       10,218         Source of estimated volume       10,218         Materials consistency description       10,218	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>B</b> LCY e: Division of Reclam actor: Cat Handbook <b>CON</b> <u>50 feet</u> ion: 2,110.5 LCY/hr	ation, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Source of estimated swell f       10,218         Average push distance:       10,218         Initial Volume:       10,218         Source of estimated volume       10,218         Materials consistency description       10,218	\$257.87 \$257.87 TIES B BLCY e: Division of Reclam actor: Cat Handbook ON 50 feet 2,110.5 LCY/hr tiption: Compacted fill on	ation, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Average push distance:       10,218         Jnadjusted hourly producti       Materials consistency descr         Average push gradient:	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>B</b> LCY e: Division of Reclam actor: Cat Handbook <b>CON</b> <b>SO</b> feet ion: 2,110.5 LCY/hr fiption: Compacted fill of -10 %	ation, Mining & Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Average push distance:       10,218         Jnadjusted hourly producti       Aterials consistency descr         Average push gradient:	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>BLCY</b> e: Division of Reclam actor: Cat Handbook <b>CON</b> <u>50 feet</u> ion: 2,110.5 LCY/hr ription: Compacted fill of -10 % 7,100 feet	ation, Mining & Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Source of estimated volume       10,218         Average push distance:       10,218         Jnadjusted hourly producti       Aterials consistency descr         Average push gradient:	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>BLCY</b> e: Division of Reclam actor: Cat Handbook <b>CON</b> <u>50 feet</u> 2,110.5 LCY/hr ription: Compacted fill of -10 % 7,100 feet 2,550 lbs/LCY Earth - Dry packed	ation, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,218         Swell factor:       1.000         Loose volume:       10,218         Source of estimated volume         Gource of estimated volume         Gource of estimated swell factor:         HOURLY PRODUCTI         Average push distance:         Jnadjusted hourly producti         Aterials consistency descr         Average site altitude:         Average site altitude:         Verage site altitude:         Veraght description:	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>BLCY</b> e: Division of Reclam actor: Cat Handbook <b>CON</b> <b>50</b> feet 2,110.5 LCY/hr iption: Compacted fill of -10 % 7,100 feet 2,550 lbs/LCY Earth - Dry packed actor	ation, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:         10,218         Swell factor:         1.000         Loose volume:         10,218         Source of estimated volume         Gource of estimated volume         Gource of estimated swell factor:         HOURLLY PRODUCTI         Average push distance:         Unadjusted hourly production         Average push gradient:         Average site altitude:         Average site altitude:         Veight description:         Ob Condition Correction F	\$257.87 <b>\$257.87</b> <b>TIES</b> 3 <b>BLCY</b> e: Division of Reclam actor: Cat Handbook <b>CON</b> <u>50 feet</u> 2,110.5 LCY/hr ription: Compacted fill of -10 % 7,100 feet 2,550 lbs/LCY Earth - Dry packed <u>actor</u> ill: 0.750	ation, Mining & Safety		

Visibilit	y:	1.000	(AVG.)
Job efficienc	y:	0.830	(1 SHIFT/DAY)
Spoil pil	e: (	0.800	(SSD-AC)
Push gradier	it:	1.225	(CAT HB)
Altitud	e:	1.000	(CAT HB)
Material Weigh	nt: (	0.902	(CAT HB)
Blade typ	e:	1.000	(PAT)
Net correctio	n: 0.4952		
Adjusted unit production:	1,045.12 LCY/	ĥr	
Adjusted fleet production:	1045.12 LCY/	hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.247/LCY	

Total job time:	9.78 Hours	
Total job cost:	\$2,521.17	

# WHEEL LOADER - LOAD AND CARRY WORK

Amzak Pit	Permi	it Action:	2013 Inspection	Permit/Job#:	M2003003
PROJECT IDENTIFIC.	ATION				
Task #: 006		Colorado		Abbreviation:	Mana
Date: $10/8/2013$		La Plata		Filename:	None M003-006
User: KAP	County	La Tiata		ritename.	1003-006
		111010-1			
Agency or organiza	ation name:DRM	<u>1S</u>			
HOURLY EQUIPMEN	<b>F COST</b>				
			**		1.40
	AT 928HZ OPS Cab			• <u> </u>	149
				F	er day CRG)
			Dai		
Cost Breakdown:		I			
Ownership Cost/Hou	ur: \$16.07		Utilization %		
Operating Cost/Hou			<u>NA</u> 100		
Operator Cost/Hou			NA		
Total Unit Cost/Hou					
Total Fleet Cost/Hor	ur: \$84.55				
MATERIAL QUANTIT	IFS				
	<u>HES</u>				
Initial volume: 500		CCY	Swell factor:	1.125	
Loose volume:	563	LCY			
Source of ea	stimated volume:	Division (	of Reclamation, Minin	ng & Safety	
Source of estimation	ated swell factor:	Cat Hand	book		
HOURLY PRODUCTIC	DN				
a call i mob o cinc				er): 0.475	minutes
	Inadjusted Basic Cy	cle Time (	load dumn maneuve		minutes
Loader Cycle Time: (	Jnadjusted Basic Cy	cle Time (	(load, dump, maneuve	1	
Loader Cycle Time: ( Cycle Time Factors				Factor (min.)	Source
Loader Cycle Time: t Cycle Time Factors Material:	Material 3/4" to 6	" diameter	0.00	Factor (min.) 0.000	(Cat HB)
Loader Cycle Time: t Cycle Time Factors Material: Stockpile:	Material 3/4" to 6 No adjustment - f	" diameter	0.00 pplicable 0.00	Factor (min.) 0.000 0.000	(Cat HB) (Cat HB)
Loader Cycle Time: U Cycle Time Factors Material: Stockpile: Truck Ownership:	Material 3/4" to 6 No adjustment - f No adjustment - f	" diameter actor not a actor not a	0.00 pplicable 0.00 pplicable 0.00	Factor (min.) 0.000 0.000 0.000	(Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: U Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material 3/4" to 6 No adjustment - f No adjustment - f No adjustment - f	" diameter actor not a actor not a factor not a	0.00 pplicable 0.00 pplicable 0.00 applicable 0.00	Factor (min.) 0.000 0.000 0.000 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: U Cycle Time Factors Material: Stockpile: Truck Ownership:	Material 3/4" to 6 No adjustment - f No adjustment - f	" diameter actor not a actor not a factor not a actor not a	0.00 pplicable 0.00 pplicable 0.00 applicable 0.00 pplicable 0.00	Factor (min.)           0.000           0.000           0.000           0.000           0.000           0.000           0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: U Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material 3/4" to 6 No adjustment - f No adjustment - f No adjustment - f	" diameter actor not a actor not a factor not a actor not a Net Cyc	0.00 pplicable 0.00 pplicable 0.00 applicable 0.00	Factor (min.) 0.000 0.000 0.000 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB)

Haul:	Rutted dirt, little maintenance, no water, 2" tire penetration 5.0	
Return:	Rutted dirt, little maintenance, no water, 2" tire penetration 5.0	-11 <del>-</del>

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	20	0.00	5.00	5.00	0.0141	(Cat HB)
Return Route:	20	0.00	5.00	5.00	0.0141	(Cat HB)

Total Travel Time:	0.0282	minutes
Total Cycle Time:	0.5032	minutes

Load Bucket Capacity

Rated Capacity:	3.00	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - mixed moist aggregates (95-100%) 0.975
Adjusted Capacity:	2.93	LCY

Job Condition Correction Factors Site Altitude: <u>7100</u> feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production:	348.76	LCY/Hour
Adjusted Hourly Unit Production:	289.47	LCY/Hour
Adjusted Hourly Fleet Production:	289.47	LCY/Hour

Fleet size:	1	Loader(s)	Total job time:	1.94	Hours
Unit cost:	\$0.292	/LCY	Total job cost:	\$164.00	

# DEMOLITION WORK

	Task description	on: _I	REmove co	ncrete scale ran	ps, dispose of debr	is			
Site:	Amzak Pit			Permit Action:	2013 Inspection	Pe	rmit/Jo	ob#:	M2003003
PROJE	CT IDENTI	FICATION							
Task #: Date: User:	: 10/8/2013 : KAP	or organizatio	State: County: n name:	Colorado La Plata DRMS		Abbreviati Filena	_	Non M00	e )3-007
UNIT CO	<u>OSTS</u>					Location	adjus	tmen	t: 91.60 %
	ure or Item cription	Dimensions		Demolition Me Selection	nu Quantity	Unit	Uni	t	Total Cost

Γ

Description	Dimensions	Selection	Quantity	Unit	Unit Cost	Total Cost
concrete rubble, onsite disposal	100 cy	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	100.00	CY	\$0.70	\$70.20
excavate onsite disposal pit	120 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	120.00	СҮ	\$1.56	\$187.20
Misc. debris, onsite disp.	20 cy	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	20.00	CY	\$0.70	\$14.04

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	0.00	(unadjusted):	\$271.44	location):	\$248.64

## BULLDOZER RIPPING WORK

	Task description:	Rip to remove compation	on road, scale and	processing areas	
Site	e: Amzak Pit	Permit Actio	n: 2013 Inspection	Permit/Job#	: M2003003
	PROJECT ID	ENTIFICATION			
	Task #: 008	State: Colora	do	Abbreviation:	None
	Date: 10/	8/2013 County: La Plat		Filename:	M003-008
	User: KA	P			
	Agency	or organization name:DRMS			
	HOURLY EQ	UIPMENT COST			
	Basic	Machine: Cat D9T - 9SU		Horsepower:	405
	Ripper Att				ber day
		·····			CRG)
	Cost Breakdown:			·	
				Utilization %	
			\$78.33	NA	
	D.		142.13	100	
	Ripp		\$7.96	100	
			\$37.41	NA	
			265.84		
			265.84		
	MATERIAL Q	<u>UANTITIES</u>	Selected estimating n	nethod: Area	
	Alternate Method	<u>s:</u>			
Seismic:	NA	Bank Volume	: NA	BCY	NA
Area:	5.00	acres Rip Depth (ft)	: 1.50	Volume: 12,100	BCY or CCY
		Source of estimated quantity: May	)		
	HOURLY PRO			i itiz o <del>r d</del> ina	
		DUCTION			
	Seismic:	Seismic Velocity:	NA	feet/second	
			1471		
	Area:			5.4	
		Average Ripping Depth:	2.63	mph	
		Average Ripping Width:	7.67	degrees	
		Average Ripping Length: Average Dozer Speed:	300.00	feet	
		Average Maneuver Time:	88.00 0.25	feet feet	
		Production per unit area:	0.866	acres/hour	
	Job Condition Co.		0.800		
	Job Condition Con				
	Una	djusted Hourly Unit Production:	0.866	Acres/hr	
		Site Altitude:	7,100	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Productio	n: 0.72	Acres/hr	
		Adjusted Hourly Fleet Productio		Acres/hr	
	JOB TIME AN	D COST			
	Fleet size:	1 Grader(s)	Total job time:	6.95	Hours
			-		
	Unit cost:	\$369.773 Per acre	Total job cost:	\$1,849.00	

# **REVEGETATION WORK**

	evegetation				- 24	
Amzak Pit	Permit A	Action: _	2013 Inspect	ion	Permit/Job	#: M2003003
PROJECT IDENTIFICA	<u>TION</u>					
Task #: 009	State: Co	olorado			Abbreviation:	None
Date: 10/8/2013	County: La	a Plata			Filename:	M003-009
User: KAP	_					
Agency or organizati	on name: DRMS					
TERTILIZING						
Materials						
D		Units	~ ~ ~			
Description		Acre	Unit	0	ost / Unit	Cost /Acre
				\$		\$
				Т	otal Fertilizer Materials Cost/Acre	\$0.00
1					COSUACIE	30.00
pplication						1
Description						Cost /Acre
						\$
		Т	otal Fertiliz	er Applicat	ion Cost/Acre	\$0.00
ILLING						
Description						Cost /Acre
Disc harrowing, 6" deep (ME	ANS 32 91 13.23 6	100)				\$98.01
				Total Till	ing Cost/Acre	\$98.01
EEDING				Rate –		
				PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Seed Mix				Acre		
	2 	s			8 00	\$21.78
Indian Ricegrass - Paloma				2.50	8.09 9.79	\$21.78 \$6.21
Indian Ricegrass - Paloma Blue Grama - Native				2.50 0.60	9.79	\$6.21
Indian Ricegrass - Paloma Blue Grama - Native Muttongrass Western Wheatgrass - Arriba				2.50		\$6.21 \$7.36
Seed Mix Indian Ricegrass - Paloma Blue Grama - Native Muttongrass Western Wheatgrass - Arriba Needle and Thread				2.50 0.60 0.20	9.79 4.13	\$6.21

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

## Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

## NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	with 1997 1997	To	als Nursery Stoc	k Cost / Acre	\$0.00

### JOB TIME AND COST

	No. of Acres:	23	Cost /Acre:	\$970.19	
	ed Failure Rate:		Cost /Acre*:	\$970.19	
*Selected Replanti	ng Work Items:	TILLING, SEEDIN	IG,MULCHING		
Initial Job Cost:	\$22,314.37				
Reseeding Job Cost:	\$5,578.59				
Total Job Cost:	\$27,892.96				

Job Hours: 25.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

: Amzak Pit		Permit	Action: 2013 I	Inspection	P	ermit/Job#:	M2003003
							112005005
PROJECT IDE	NTIFICAT	ION					
Task #: 010		State: Co	olorado		Abb	reviation: N	None
Date: 10/8 User: KAP	/2013	County: La	a Plata				4003-010
Agency of	or organizatio	n name: DRMS					
EQUIPMENT 1	RANSPOR	RT RIG COST					
5					Shift b	acie: 1 n	er dou
					Cost Data Sou		er day G Data
T 1	T ( D	·					
Iruck	Tractor Desc	cription: GEN	ERIC ON-HIGH				SEL POWERED,
Tmal	Trailar Daga				P (2ND HALF,		
Truck	Trailer Desc	cription: GENE	KIC FOLDING				MENT TRAILER
				(251	, 50T, AND 10	)01)	
Cost Breakdown:							
Available Rig Car		0-25 Tons	26-50 Tons	51	+ Tons		
Ownership	Cost/Hour:	0-25 Tons \$16.63	<b>26-50 Tons</b> \$18.37		+ Tons 22.33		
Ownership Operating	Cost/Hour: Cost/Hour:			\$			
Ownership Operating	Cost/Hour:	\$16.63	\$18.37	\$	22.33 50.07		
Ownership Operating Operator	Cost/Hour: Cost/Hour:	\$16.63 \$44.38	\$18.37 \$46.13 \$27.66	\$ \$ \$	22.33 50.07 27.66		
Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66	\$18.37 \$46.13	\$ \$ \$ \$	22.33 50.07		
Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67	\$18.37 \$46.13 \$27.66 \$25.39	\$ \$ \$ \$	22.33 50.07 27.66 25.39		
Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67	\$18.37 \$46.13 \$27.66 \$25.39	\$ \$ \$ \$	22.33 50.07 27.66 25.39	Return Trip	
Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b>	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55	\$ \$ \$ \$ \$	22.33 50.07 27.66 25.39 125.45	Return Trip Cost/hr/ fle	
Ownership Operating Operator Helper Total Unit NON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	\$ \$ \$ \$ \$ \$ \$	22.33 50.07 27.66 25.39 125.45 Haul Trip		
Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	S S S S Fleet Size	22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet	Cost/hr/ fle	et Cost/ fleet
Ownership Operating Operator Helper Total Unit Mon ROADAB Machine Description Cat D9T - 9SU	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS)	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	\$ \$ \$ \$ \$ \$ \$	22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$195.33	Cost/hr/ fle \$125.45	set Cost/ fleet
Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D9T - 9SU Cat 623G	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS) 60.01	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$69.88	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45 \$117.55	S S S S S S S S S S S S S S S S S S S	22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$195.33 \$190.04	Cost/hr/ fle \$125.45 \$117.55	\$0.00 \$0.00
Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS) 60.01 41.35	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$69.88 \$72.49	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45	S S S S Fleet Size	22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$195.33	Cost/hr/ fle \$125.45	set Cost/ fleet

# **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

## **EQUIPMENT HAUL DISTANCE and Time**

DURANGO, CO	
17.00	miles
40.00	mph
\$3,356.38	
\$13.04	
	17.00 40.00 \$3,356.38

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.43	0.43
Return Time (Hours):	0.43	0.43
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.85	0.85

## JOB TIME AND COST

Total job time: 5.70 Hours

Total job cost: \$3,369.42