### COST SUMMARY WORK

#### Task description: Bond Increase

Site:	Incas Mine	Permit Action:	2012 Inspection	Permit/Job#:	M1986076	

### **PROJECT IDENTIFICATION**

Task #:	000	State:	Colorado	Abbreviation:	None
Date:	11/23/2012	County:	La Plata	Filename:	M076-000
User:	KAP			200 November Statistics Personal Control of Statistics Persona	

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
001	Backfill and Grade compact open pit area, first phase	LOADER	2	12.47	\$2,442.00
002	Grade or cmpact contour depression fill area, first phase	LOADER	2	8.95	\$1,753.00
003	Grade and rip reworekd mine dump areas, first phase	EXCAVATE	1	27.13	\$2,754.00
004	Grade and rip stormwater controls, first phase	EXCAVATE	1	1.89	\$193.00
005	Grade and contur non-permenant roads, first phase	EXCAVATE	1	4.36	\$443.00
006	INstall contour furrows on slopes, first phase	EXCAVATE	1	18.07	\$1,835.00
007	Replace topsoil over graded open pit area, first phase	LOADER	2	2.00	\$392.00
008	Replace topsoil over graded contour depression, first phase	LOADER	2	0.60	\$117.00
009	Replace topsoil over grade stormwater cont., first phase	LOADER	2	0.24	\$47.00
010	Seal existing underground openings	MINESEAL	1	0.00	\$1,852.00
011	Revegetate	REVEGE	1	0.00	\$2,997.98
012	Dispose f backfill devris, remove chemicals and containers	DEMOLISH	1	10.00	\$2,240.48
014	Mobilize/Demobilize	MOBILIZE	1	7.20	\$4,592.46
015	Neutralize cyanide leach circuit	VATDETOX	1	4.92	\$227.00
		<u>SUBTO</u>	TALS:	97.83	\$21,885.92

### **INDIRECT COSTS**

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

Liability insurance:	0.00%		Total =	\$0.00	
Performance bond:	0.00%		Total =	\$0.00	
Job superintendent:	49.98 hrs		Total =	\$2,963.81	
Profit:	10.00%		Total =	\$2,188.59	
				\$5,152.40	
	CC	ONTRACT AMOUNT (direct + 0	) & P) = [	\$27,038.32	
LEGAL - ENGINEERING - PR	OJECT MANAGEME	NT:			
Financial warranty process	sing (legal/related costs	): 0.00	Total =	0.00	

Indictal warranty processing (legal/related costs):0.00Total =0.00Engineering work and/or contract/bid preparation:10.00%Total =\$2,703.83Reclamation management and/or administration:0.00%\$0.00%

CONTINGENCY:	0.00	Total =	\$0.00
		TOTAL INDIRECT COST =	\$7,856.23
TOTAL BO	OND A	MOUNT (direct + indirect) =	\$29,742.15

Incas Mine	Permit Actic	on: 2012 Inspection	Permit/Job#:	M1986076
PROJECT IDENTIFICA	ATION			
Task #: 001	State: Colora	ado	Abbreviation:	None
Date: 11/23/2012	County: La Pla		Filename:	M076-001
User: KAP			i incliante.	
Agency or organiza	ation name: DRMS			
HOURLY EQUIPMENT	Γ COST			
	AT 938H	Uorsa	power:	172
	DPS Cab			er day
	<u></u>		k	CRG)
<b>C D L L</b>		Dutu		
Cost Breakdown:				
Ownership Cost/Hou	r: \$22.07	Utilization %		
Operating Cost/Hou		<u>NA</u> 100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou		NA		
Total Ollit Cost/Hou	1. \$97.90			
Total Fleet Cost/Hou	ur: \$195.79			
MATERIAL QUANTIT	IES			
Initial volume: 3,371	CCY	Swell factor: 1	.335	
	4,500 LCY			
Loose volume:				
Loose volume:				
Source of es		ion of Reclamation, Mining	& Safety	
Source of es		ion of Reclamation, Mining andbook	& Safety	
Source of estimations	ated swell factor: Cat H		& Safety	
Source of es	ated swell factor: Cat H		& Safety	
Source of estimation of the second se	ated swell factor: Cat H	andbook		minutes
Source of es Source of estima HOURLY PRODUCTIO	ated swell factor: Cat H		0.483	minutes
Source of es Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors	ated swell factor: <u>Cat H</u> <u><b>DN</b></u> Jnadjusted Basic Cycle Tin	andbook me (load, dump, maneuver):	0.483 Factor (min.)	Source
Source of es Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	ated swell factor: Cat H ON Jnadjusted Basic Cycle Tin Bank or broken material	andbook me (load, dump, maneuver): 0.04	0.483 Factor (min.) 0.040	Source (Cat HB)
Source of es Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile:	ated swell factor: Cat H ON Jnadjusted Basic Cycle Tin Bank or broken material Conveyor or dozer piled	andbook me (load, dump, maneuver): 0.04 10 ft. high or less 0.01	0.483 Factor (min.) 0.040 0.010	Source (Cat HB) (Cat HB)
Source of estimation Source of estimation HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	ated swell factor: Cat H <b>DN</b> Jnadjusted Basic Cycle Tin Bank or broken material Conveyor or dozer piled No adjustment - factor n	andbook me (load, dump, maneuver): 0.04 10 ft. high or less 0.01 ot applicable 0.00	0.483 Factor (min.) 0.040 0.010 0.000	Source (Cat HB) (Cat HB) (Cat HB)
Source of estimation Source of estimation HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ated swell factor: Cat H Cat H DN Jnadjusted Basic Cycle Tin Bank or broken material Conveyor or dozer piled No adjustment - factor n Constant operation -0.04	andbook me (load, dump, maneuver): 0.04 10 ft. high or less 0.01 ot applicable 0.00	0.483 Factor (min.) 0.040 0.010 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Source of estimation Source of estimation HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	Ated swell factor: Cat H <b>DN</b> Unadjusted Basic Cycle Tin Bank or broken material Conveyor or dozer piled No adjustment - factor n Constant operation -0.04 No adjustment - factor n	andbook me (load, dump, maneuver): 0.04 10 ft. high or less 0.01 ot applicable 0.00 ot applicable 0.00	0.483 Factor (min.) 0.040 0.010 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Source of estimation Source of estimation HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ated swell factor: Cat H ON Unadjusted Basic Cycle Tin Bank or broken material Conveyor or dozer piled No adjustment - factor n Constant operation -0.04 No adjustment - factor n Net o	andbook me (load, dump, maneuver): 0.04 10 ft. high or less 0.01 ot applicable 0.00	0.483 Factor (min.) 0.040 0.010 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)

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

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	175	0.00	8.00	8.00	0.1959	(Cat HB)
Return Route:	175	0.00	8.00	8.00	0.1781	(Cat HB)

		Total Travel Ti Total Cycle Ti		minutes minutes
Load Bucket Capacity				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	0.875	LCY (heaped) Blasted rock - well blasted LCY	(80 - 95%) 0.875	
Job Condition Correction F Site Altitude: <u>10800</u> feet	Factors			
Altitude Adj: Job Efficiency: Net Correction:		Source (CAT HB) 1 shift/day) nultiplier		
Ad	justed Hourly Unit Pro justed Hourly Unit Pro usted Hourly Fleet Pro	duction: 180.44	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u>r</u>			
Fleet size: 2	Loader(s)	Total job time:	12.47	Hours
Unit cost:\$0.54	3 /LCY	Total job cost:	\$2,442.00	

Task description:	Grade or cmpact contour	depression fill area, first	phase	
Incas Mine	Permit Action	: 2012 Inspection	Permit/Job#:	M1986076
PROJECT IDENTIFIC				
Task #: 002	State: Colorado		Abbreviation:	None
Date: 11/23/2012	County: La Plata		Filename:	M076-002
User: KAP				
Agency or organization	ation name: DRMS			
HOURLY EQUIPMEN	<u>r cost</u>			
Basic Machine: CA	AT 938H	Horser	Nower.	172
	OPS Cab			ber day
		Data S		CRG)
		Data 5	ource. ((	
Cost Breakdown:				
	e 🔔 stantaurs - Kabelowsk	Utilization %		
Ownership Cost/Hou		NA		
Operating Cost/Hou	We want the second seco	100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou	ır: \$97.90			
Total Fleet Cost/Ho	ur: \$195.79			
MATERIAL QUANTIT	IES	-		
Initial volume: 2,420	0 CCY	Swell factor: 1	.335	
Loose volume:	3,231 LCY			
		n of Reclamation, Mining and book	& Safety	
HOURLY PRODUCTIO				
Loader Cycle Time:	Jnadjusted Basic Cycle Time	e (load, dump, maneuver):	0.483	minutes
Cycle Time Factors			Factor (min.)	Source
	Bank or broken material 0		0.040	(Cat HB)
Material:		0.0.1.1.1.0.01	0.010	(Cat HB)
Stockpile:	Conveyor or dozer piled 1		0.010	(Cut IID)
Stockpile: Truck Ownership:	No adjustment - factor not		0.000	(Cat HB)
Stockpile: Truck Ownership: Operation:	No adjustment - factor not Constant operation -0.04	applicable 0.00		
Stockpile: Truck Ownership:	No adjustment - factor not Constant operation -0.04 No adjustment - factor not	applicable 0.00	0.000 -0.040 0.000	(Cat HB)
Stockpile: Truck Ownership: Operation:	No adjustment - factor not Constant operation -0.04 No adjustment - factor not	applicable 0.00	0.000 -0.040	(Cat HB) (Cat HB)

Rolling Resistance - Road Conditions

Haul:Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Return:Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	175	0.00	8.00	8.00	0.1959	(Cat HB)
Return Route:	175	0.00	8.00	8.00	0.1781	(Cat HB)

		Total Travel 7 Total Cycle 7		minutes minutes
Load Bucket Capacity				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	3.90 0.875 3.41	LCY (heaped) Blasted rock - well blasted LCY	d (80 - 95%) 0.875	
Job Condition Correction F Site Altitude: <u>10800</u> feet	Factors			
Altitude Adj: Job Efficiency: Net Correction:	0.92 0.83 0.76	Source (CAT HB) (1 shift/day) multiplier		
Ad	justed Hourly Unit P justed Hourly Unit P usted Hourly Fleet P	Production: 180.44	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u>r</u>			
Fleet size: 2	Loader(s)	Total job time:	8.95	Hours
Unit cost:\$0.54	3 /LCY	Total job cost:	\$1,753.00	

Task description:	Grade and rip re	eworekd m	ine dump areas, f	irst phase		
te: Incas Mine	Per	mit Action:	2012 Inspection	Per	rmit/Job#	: M1986076
PROJECT IDENTIF	CATION					
Task #:       003         Date:       11/23/2012         User:       KAP	State: County:	Colorado La Plata			eviation: ilename:	None M076-003
Agency or organ	ization name:DR	RMS				
HOURLY EQUIPME	NT COST					
Basic Machine: Attachment 1:	Cat 319D L 8'-10" ROPS Cab	Stick	,	Horsepower: Weight (MT): Shift Basis: Data Source:	11	125 19.55 per day CRG)
Cost Breakdown:		1	T			
Ownership Cost/H Operating Cost/H Operator Cost/H Total Unit Cost/H	lour: \$40.5 lour: \$38.6	56 57	Utilization % NA 100 NA	-		
Total Fleet Cost/I						
Loose volume: 2,	ITIES 775 775 f estimated volume:	_ CCY _ LCY Division	Swell facto			
Source of est	imated swell factor:	Cat Han				
HOURLY PRODUCT	ad bucket, swing loa	Basic Job (	bucket, swing emp Condition Descripti nin Basic Descripti Cycle Time Val	on: <u>AVERAC</u> on: <u>AVERAC</u>		minutes
Load Bucket Capacity				Bucket Size Cla	· · · · · · · · · · · · · · · · · · ·	- 1.
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	0.675	LCY (he Rock - V	aped) Vell blasted (60% -			edium
Job Condition Correction	Factors		Site	Altitude: <u>10800</u>	feet	
Ac	0.78 0.83 0.65 ljusted Hourly Unit I ljusted Hourly Unit I justed Hourly Fleet I <b>T</b>	Production:	e B) ay)	LCY/Hour LCY/Hour LCY/Hour		
Fleet size: 1	Excavato	r T	otal job time:	27.13		Hours
Unit cost: \$0.99	93 /LCY		Total job cost:	\$2,754.0	0	

Task #:       004       State:       Colorado       Abbreviation:       None         Date:       11/23/2012       County:       La Plata       Filename:       M076-0         User:       KAP       Agency or organization name:       DRMS       DRMS         HOURLY EQUIPMENT COST         Basic Machine:       Cat 319D L 8'-10" Stick       Horsepower:       125         Attachment 1:       ROPS Cab       Weight (MT):       19.55         Shift Basis:       1 per day       Data Source:       (CRG)         Cost Breakdown:       Utilization %       Operating Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$22.27       NA       Operating Cost/Hour:       \$101.51         Total Unit Cost/Hour:       \$101.51       Total Unit Cost/Hour:       \$101.51         MATERIAL QUANTITIES       Initial volume:       194       LCY       Swell factor:       1.000         Initial volume:       194       LCY       Swell factor:       1.000       Cat Handbook         HOURLY PRODUCTION       Division of Reclamation, Mining & Safety       Cat Handbook       Cat Handbook	004
Date:       11/23/2012       County:       La Plata       Filename:       M076-C         User:       KAP       Agency or organization name:       DRMS         HOURLY EQUIPMENT COST         Basic Machine:       Cat 319D L 8'-10" Stick       Horsepower:       125         Attachment 1:       ROPS Cab       Weight (MT):       19.55         Shift Basis:       1 per day         Date Source:       (CRG)         Cost Breakdown:       Villization %         Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51         Total Fleet Cost/Hour:       \$101.51         MATERIAL QUANTITIES       Initial volume:       194         Initial volume:       194       CCY       Swell factor:       1.000         Loose volume:       194       LCY       Source of estimated volume:       Division of Reclamation, Mining & Safety	
Agency or organization name:       DRMS         HOURLY EQUIPMENT COST         Basic Machine:       Cat 319D L 8'-10" Stick         Horsepower:       125         Attachment 1:       ROPS Cab         Weight (MT):       19.55         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51	
HOURLY EQUIPMENT COST         Basic Machine:       Cat 319D L 8'-10" Stick       Horsepower:       125         Attachment 1:       ROPS Cab       Weight (MT):       19.55         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51         Total Fleet Cost/Hour:       \$101.51         MATERIAL QUANTITIES       Initial volume:       194         LOCY       Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook       Cat Handbook	
Basic Machine:       Cat 319D L 8'-10" Stick       Horsepower:       125         Attachment 1:       ROPS Cab       Weight (MT):       19.55         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51         Total Fleet Cost/Hour:       \$101.51         MATERIAL QUANTITIES         Initial volume:       194         LCCY       Swell factor:       1.000         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook	
Utilization %         Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51         Total Fleet Cost/Hour:       \$101.51         MATERIAL QUANTITIES         Initial volume:       194         Loose volume:       194         LCY       Source of estimated volume:         Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook	
Ownership Cost/Hour:       \$22.27       NA         Operating Cost/Hour:       \$40.56       100         Operator Cost/Hour:       \$38.67       NA         Total Unit Cost/Hour:       \$101.51         Total Fleet Cost/Hour:       \$101.51         MATERIAL QUANTITIES         Initial volume:       194         CCY       Swell factor:         194       LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook	
MATERIAL QUANTITIES         Initial volume:       194         Loose volume:       194         Loose volume:       194         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook	
MATERIAL QUANTITIES         Initial volume:       194       CCY       Swell factor:       1.000         Loose volume:       194       LCY       Swell factor:       1.000         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook	
Exceptor Cycle Time (load bucket swing loaded dymn bucket swing country)	
Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):	
Basic Job Condition Description:       AVERAGE         Secondary Job Condition within Basic Description:       AVERAGE         Cycle Time Value:       0.282	S
Load Bucket Capacity Bucket Size Class: Medium	
Rated Capacity:1.10LCY (heaped)Bucket Fill Factor:0.675Rock - Well blasted (60% - 75%) 0.675Adjusted Capacity:0.74LCY	
Job Condition Correction Factors     Site Altitude: 10800 feet	
Source         Altitude Adj:       0.78       (CAT HB)         Job Efficiency:       0.83       (1 shift/day)         Net Correction:       0.65       multiplier         Unadjusted Hourly Unit Production:       157.98       LCY/Hour         Adjusted Hourly Unit Production:       102.28       LCY/Hour         Adjusted Hourly Fleet Production:       102.28       LCY/Hour	
JOB TIME AND COST	
Fleet size:   1   Excavator   Total job time:   1.90   Hours	s
Unit cost: \$0.993 /LCY Total job cost: \$193.00	

Task description:	Grade and contu					
Incas Mine	Per	mit Action:	2012 Inspection	n Per	mit/Job#:	M1986076
PROJECT IDENTIF	<b>ICATION</b>					
Task #: 005	State:	Colorado		Abbre	eviation:	None
Date: 11/23/2012		La Plata			lename:	M076-005
User: KAP	county!				incliante.	141070-005
Agency or organ	nization name: DR	RMS				
HOURLY EQUIPME	2 <del></del>					
Basic Machine:	Cat 319D L 8'-10"	Stick		Horsepower:		125
Attachment 1:	ROPS Cab			Weight (MT):		9.55
-				Shift Basis:		er day
				Data Source:		CRG)
Cost Breakdown:						
0 11 0 7	¥		Utilization %			
Ownership Cost/H			NA	<u> </u>		
Operating Cost/H Operator Cost/H			100 NA			
Total Unit Cost/F			NA			
Total Fleet Cost/		.51				
MATERIAL QUANT Initial volume: 44		CCY	Swell fact	1.000		
		LL Y	Swell tact	or: 1.000		
ACTION OF A MARKET AND COMPANY AND ADDRESS			5			
Loose volume: 44	46	LCY				
Loose volume: 44 Source o	<b>46</b> of estimated volume:	LCY Division o	of Reclamation, N			
Loose volume: 44 Source o	46	LCY	of Reclamation, N			
Loose volume: 44 Source o	46 of estimated volume: timated swell factor:	LCY Division o	of Reclamation, N			
Loose volume: 44 Source o Source of est	46 of estimated volume: timated swell factor: TION	LCY Division o Cat Handl	of Reclamation, N book	Mining & Safety		
Loose volume: 44 Source o Source of est	46 of estimated volume: timated swell factor: TION ad bucket, swing loa	LCY Division o Cat Handl	of Reclamation, N book ucket, swing emp	Mining & Safety		
Loose volume: 44 Source o Source of est	46 of estimated volume: timated swell factor: TION ad bucket, swing load	LCY Division of Cat Handl ded, dump bu Basic Job Co	of Reclamation, M book ucket, swing emp ondition Descript	Mining & Safety <u>oty):</u> ion: AVERAC		
Loose volume: 44 Source o Source of est	46 of estimated volume: timated swell factor: TION ad bucket, swing loa	LCY Division of Cat Handl ded, dump bu Basic Job Co	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript	Mining & Safety <u>oty):</u> ion: <u>AVERAC</u> ion: <u>AVERAC</u>		minutos
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo	46 of estimated volume: timated swell factor: TION ad bucket, swing load	LCY Division of Cat Handl ded, dump bu Basic Job Co	of Reclamation, M book ucket, swing emp ondition Descript	Mining & Safety <u>oty):</u> ion: <u>AVERAC</u> ion: <u>AVERAC</u>		minutes
Loose volume: 44 Source o Source of est	46 of estimated volume: timated swell factor: TION ad bucket, swing load	LCY Division of Cat Handl ded, dump bu Basic Job Co	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript	Mining & Safety bty): ion: AVERAC ion: AVERAC lue: 0.282	3E	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity	46 of estimated volume: timated swell factor: CION ad bucket, swing loa Secondary Job Co	LCY Division of Cat Handl ded, dump bu Basic Job Co ndition withi	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va	Mining & Safety <u>oty):</u> ion: <u>AVERAC</u> ion: <u>AVERAC</u>	3E	minutes
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo	46 of estimated volume: timated swell factor: CION ad bucket, swing loa Secondary Job Co	LCY <u>Division of</u> <u>Cat Handl</u> ded, dump bu Basic Job Co andition withi	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped)	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla	3E	
Loose volume: <u>44</u> Source o Source of est <u>HOURLY PRODUCT</u> Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity:	46 of estimated volume: imated swell factor: <u>TON</u> ad bucket, swing load Secondary Job Co : <u>1.10</u> : <u>0.675</u>	LCY <u>Division of</u> <u>Cat Handl</u> ded, dump bu Basic Job Co andition withi	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla	3E	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74	LCY Division of Cat Handl ded, dump bu Basic Job Co ndition withi _ LCY (hea _ Rock - Wo	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% -	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla	3E 	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74	LCY Division of Cat Handl ded, dump bu Basic Job Co ndition withi LCY (hea Rock - Wo LCY	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% -	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675	3E 	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74	LCY Division of Cat Handl ded, dump bu Basic Job Co ndition withi _ LCY (hea _ Rock - Wo	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% - Site	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675	3E 	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency:	46 of estimated volume: timated swell factor: CION ad bucket, swing loa Secondary Job Co Secondary Job Co 	LCY Division of Cat Handl ded, dump by Basic Job Co Indition withi LCY (hea Rock - Wo LCY Source	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% - Site	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675	3E 	
Loose volume: 44 Source o Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj:	46 of estimated volume: timated swell factor: CION ad bucket, swing loa Secondary Job Co : 1.10 : 0.675 : 0.74 Factors 0.78	LCY Division of Cat Handl ded, dump bu Basic Job Co andition withi LCY (hea Rock - Wo LCY Source (CAT HB	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% - Site	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675	3E 	
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74         Factors       0.78         0.83       0.65	LCY Division of Cat Handl ded, dump bu Basic Job Co Indition withi LCY (hea Rock - Wo LCY Source (CAT HB (1 shift/day multiplier	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% Site	Mining & Safety Dty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675	3E 	
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Unac	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74         Factors       0.78         0.83       0.83	LCY Division of Cat Handl ded, dump bu Basic Job Co andition withi LCY (hea Rock - Wo LCY Source (CAT HB (1 shift/day multiplier Production:	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% - Site	Mining & Safety bty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675 Altitude: <u>10800</u>	3E 	
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         :       1.10         :       0.675         :       0.74         Factors       0.78         0.83       0.65         djusted Hourly Unit Hourly	LCY Division of Cat Handl ded, dump by Basic Job Co andition withi LCY (hea Rock - Wo LCY Source (CAT HB (1 shift/day multiplier Production: Production:	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% Site	Mining & Safety <u>oty):</u> ion: <u>AVERAC</u> ion: <u>AVERAC</u> lue: <u>0.282</u> Bucket Size Cla <u>- 75%) 0.675</u> Altitude: <u>10800</u> <u>LCY/Hour</u>	3E 	
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction:	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         Secondary Job Co         1.10         0.675         0.74         Factors         0.78         0.83         0.65         djusted Hourly Unit H         ijusted Hourly Fleet H	LCY Division of Cat Handl ded, dump by Basic Job Co andition withi LCY (hea Rock - Wo LCY Source (CAT HB (1 shift/day multiplier Production: Production:	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% Site ) /)	Mining & Safety bty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675 Altitude: 10800 _ LCY/Hour _ LCY/Hour	3E 	
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction: Unac Ad	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         Secondary Job Co         1.10         0.675         0.74         Factors         0.78         0.83         0.65         djusted Hourly Unit H         ijusted Hourly Fleet H         YT	_ LCY _ Division of Cat Handl ded, dump by Basic Job Co andition within _ LCY (hear _ Rock - Wo _ LCY _ Source (CAT HB _ (1 shift/day multiplier Production: Production: Production:	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% Site ) /) 157.98 102.28 102.28	Mining & Safety bty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675 Altitude: 10800 LCY/Hour LCY/Hour LCY/Hour	3E 	2dium
Loose volume: 44 Source of Source of est HOURLY PRODUCT Excavator Cycle Time (lo Load Bucket Capacity Bucket Fill Factor: Adjusted Capacity: Iob Condition Correction Altitude Adj: Job Efficiency: Net Correction: Unac Ad	46         of estimated volume:         timated swell factor:         CION         ad bucket, swing load         Secondary Job Co         Secondary Job Co         1.10         0.675         0.74         Factors         0.78         0.83         0.65         djusted Hourly Unit H         ijusted Hourly Fleet H	_ LCY _ Division of Cat Handl ded, dump by Basic Job Co andition within _ LCY (hear _ Rock - Wo _ LCY _ Source (CAT HB _ (1 shift/day multiplier Production: Production: Production:	of Reclamation, N book ucket, swing emp ondition Descript n Basic Descript Cycle Time Va ped) ell blasted (60% Site ) /)	Mining & Safety bty): ion: AVERAC ion: AVERAC lue: 0.282 Bucket Size Cla - 75%) 0.675 Altitude: 10800 _ LCY/Hour _ LCY/Hour	3E 	

Task description:	INstall conto	ur furrows on	slopes, first phase			
te: Incas Mine		Permit Action:	2012 Inspection	Peri	nit/Job#:	M1986076
PROJECT IDENT	<b>FICATION</b>					
Task #: 006	Sta	te: Colorado		Abbrey	viation:	None
Date: $\frac{1000}{11/23/20}$					ename:	M076-006
User: KAP	<u>12</u> Coun	ty. <u>Dariata</u>		. 111	channe.	101070-000
Agency or or	ganization name:	DRMS				
HOURLY EQUIPM	IENT COST					
Basic Machine:	Cat 319D L 8'-	10" Stick	Hor	sepower:		125
Attachment 1:				ght (MT):		9.55
	-C.Q. 10 - 11			ift Basis:		ber day
			Data	a Source:		CRG)
Cost Breakdown:						
			Utilization %			
Ownership Cos		22.27	NA			
Operating Cos		40.56	100			
Operator Cos		38.67	NA			
Total Unit Cos	t/Hour: \$	101.51				
Total Fleet Co	st/Hour:\$	101.51				
MATERIAL QUAN Initial volume: _ Loose volume:	<b>TITIES</b> 1,849 <b>1,849</b>	CCY	Swell factor:	1.000		
Loose volume	1,049					
	e of estimated volu		of Reclamation, Minir	ng & Safety		
Source of	estimated swell fac	tor: Cat Han	dbook			
HOURLY PRODUC	CTION					
Excavator Cycle Time		loaded dump	hucket swing empty).			
<u>Literator ejete rinte</u>		*		AVEDAG	-	
	Sacandam, Jak		Condition Description:	AVERAG	A42.42	
	Secondary Jot	Condition with	hin Basic Description:	AVERAG	E	•
Load Bucket Capacity			Cycle Time Value:	0.282		minutes
Loud Bucket Cupacity			Du	aleat Cine Cla		1.
Dated Canad		LOV		cket Size Cla	ss: Me	edium
Rated Capaci Bucket Fill Fact		LCY (he	aped) Vell blasted (60% - 75%	$() \cap (75)$		
Adjusted Capaci		LCY	ven blasted (00% - 73%	(6) 0.075		
		LC1				
Job Condition Correction	on Factors		Site Altit	ude: <u>10800</u> f	eet	
		Source				
Altitude Adj:	0.78	(CAT H				
Job Efficiency:	0.83	(1 shift/d				
Net Correction:	0.65	multiplie	r			
U	nadjusted Hourly U	nit Production:	157.98 L	CY/Hour		
	Adjusted Hourly U		102.28 L	CY/Hour		
1	Adjusted Hourly Fl	eet Production:	102.28 L	CY/Hour		
JOB TIME AND CO	<u>DST</u>					
Fleet size:	1 Exca	vator T	otal job time:	18.08		Hours
Unit cost: \$0	).993 /LCY		Total job cost:	\$1,835.00	)	

Incas Mine	Permit Action:	2012 Inspection	Permit/Job#	#: <u>M1986076</u>
PROJECT IDENTIFIC	ATION			
Task #: 007	State: Colorado	)	Abbreviation:	None
Date: 11/23/2012	County: La Plata		Filename:	M076-007
User: KAP				
Agency or organization	ation name: DRMS			
HOURLY EQUIPMEN	<u>r cost</u>			
Basic Machine: CA	AT 938H	Horse	ower.	172
	OPS Cab			per day
		Data S		(CRG)
Cost Breakdown:				
COSt Dicardown.		Utilization %		
Ownership Cost/Hou	ır: \$22.07	NA		
Operating Cost/Hou		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou	ır: \$97.90			
Total Fleet Cost/Ho	ur: \$195.79			
	·····			
MATERIAL QUANTIT	IES			
MATERIAL QUANTIT Initial volume: 807	IES CCY	Swell factor: 1	.125	
		Swell factor: _1	.125	
Initial volume: 807 Loose volume:	908 CCY			
Initial volume: 807 Loose volume: Source of e	908 CCY LCY stimated volume: Divisior	of Reclamation, Mining		
Initial volume: 807 Loose volume: Source of e	908 CCY	of Reclamation, Mining		
Initial volume: 807 Loose volume: Source of e	908 CCY 908 LCY stimated volume: Divisior ated swell factor: Cat Han	of Reclamation, Mining		
Initial volume: 807 Loose volume: Source of en Source of estimation HOURLY PRODUCTIO	908 CCY 908 LCY stimated volume: Divisior ated swell factor: Cat Han	n of Reclamation, Mining a dbook	& Safety	
Initial volume: 807 Loose volume: Source of en Source of estimation HOURLY PRODUCTIO	908 CCY 908 LCY stimated volume: Divisior ated swell factor: Cat Han	n of Reclamation, Mining a dbook	& Safety	minutes
Initial volume: 807 Loose volume: Source of en Source of estime HOURLY PRODUCTIC	908 CCY 908 LCY stimated volume: Divisior ated swell factor: Cat Han DN Jnadjusted Basic Cycle Time	n of Reclamation, Mining d dbook e (load, dump, maneuver):	& Safety 0.483 Factor (min.)	minutes
Initial volume: 807 Loose volume: Source of en Source of estimation HOURLY PRODUCTIO Loader Cycle Time: U Cycle Time Factors Material:	908       CCY         908       LCY         stimated volume:       Divisior         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.	n of Reclamation, Mining a dbook e (load, dump, maneuver):	& Safety 	Source (Cat HB)
Initial volume: 807 Loose volume: Source of ex Source of estime HOURLY PRODUCTIC Loader Cycle Time: U Cycle Time Factors Material: Stockpile:	908       CCY         908       LCY         stimated volume:       Divisior         ated swell factor:       Cat Han         DN       Division         Jnadjusted Basic Cycle Time       Bank or broken material 0.         Conveyor or dozer piled 10	n of Reclamation, Mining a dbook e (load, dump, maneuver): .04 0 ft. high or less 0.01	& Safety 	Source (Cat HB) (Cat HB)
Initial volume: 807 Loose volume: Source of ex Source of estimation HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	908       CCY         908       LCY         stimated volume:       Divisior         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.       Conveyor or dozer piled 10         No adjustment - factor not       No	n of Reclamation, Mining a dbook e (load, dump, maneuver): .04 0 ft. high or less 0.01	& Safety 	Source (Cat HB) (Cat HB) (Cat HB)
Initial volume: 807 Loose volume: Source of ex- Source of estime HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	908       CCY         908       LCY         stimated volume:       Divisior         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.       Conveyor or dozer piled 10         No adjustment - factor not       Constant operation -0.04	n of Reclamation, Mining a dbook e (load, dump, maneuver): 04 0 ft. high or less 0.01 applicable 0.00	& Safety 	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume: 807 Loose volume: Source of ex Source of estimation HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	908       CCY         908       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.       Conveyor or dozer piled 10         No adjustment - factor not       Constant operation -0.04         No adjustment - factor not	n of Reclamation, Mining a dbook e (load, dump, maneuver): 04 0 ft. high or less 0.01 applicable 0.00	<u>0.483</u> <u>Factor (min.)</u> 0.040 0.010 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume: 807 Loose volume: Source of ex- Source of estime HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	908       CCY         908       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Division         Jnadjusted Basic Cycle Time         Bank or broken material 0.         Conveyor or dozer piled 10         No adjustment - factor not         Constant operation -0.04         No adjustment - factor not         Net Cy	n of Reclamation, Mining a dbook e (load, dump, maneuver): 04 0 ft. high or less 0.01 applicable 0.00	& Safety 	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Initial volume: 807 Loose volume: Source of estimation Source of estimation HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	908       CCY         908       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.       Conveyor or dozer piled 10         No adjustment - factor not       Constant operation -0.04         No adjustment - factor not       Net Cy         Adjust       Convert	o of Reclamation, Mining a dbook e (load, dump, maneuver): 04 0 ft. high or less 0.01 applicable 0.00 cle Time Adjustment:	<u>0.483</u> <u>Factor (min.)</u> 0.040 0.010 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Initial volume: 807 Loose volume: Source of ex- Source of estime HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	908       CCY         908       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Jnadjusted Basic Cycle Time         Bank or broken material 0.       Conveyor or dozer piled 10         No adjustment - factor not       Constant operation -0.04         No adjustment - factor not       Net Cy         Adjust       Convert	o of Reclamation, Mining a dbook e (load, dump, maneuver): 04 0 ft. high or less 0.01 applicable 0.00 cle Time Adjustment:	& Safety 	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	175	0.00	8.00	8.00	0.1959	(Cat HB)
Return Route:	175	0.00	8.00	8.00	0.1781	(Cat HB)

		Total Travel T Total Cycle T		minutes minutes
Load Bucket Capacity				
Rated Capacity Bucket Fill Factor Adjusted Capacity	: 1.100 0	LCY (heaped) Other - rock/dirt mixtures LCY	(100-120%) 1.100	
Job Condition Correction Site Altitude: <u>10800</u> feet	Factors			
		Source		
Altitude Adj:		(CAT HB)		
Job Efficiency:		1 shift/day)		
Net Correction:	0.76 m	nultiplier		
Una	djusted Hourly Unit Prod	duction: 297.07	LCY/Hour	
A	djusted Hourly Unit Prod	duction: 226.84	LCY/Hour	
Ad	ljusted Hourly Fleet Proc	duction: 453.68	LCY/Hour	
JOB TIME AND COS	<u>ST</u>			
Fleet size: 2	Loader(s)	Total job time:	2.00	Hours
Unit cost: \$0.4	32 /LCY	Total job cost:	\$392.00	

			n, first phase	
Incas Mine	Permit	Action: 2012 Inspection	Permit/Job#:	M1986076
PROJECT IDENTIFIC	CATION			
Task #: 008		olorado	Abbreviation:	None
Date: <u>11/23/2012</u>	County:	a Plata	Filename:	M076-008
User: KAP				
Agency or organiz	zation name: DRMS	5		
HOURLY EQUIPMEN	T COST			
Sector track that as at the sector				
Process Sector and the sector and th	CAT 938H			172
Attachment 1: _R	OPS Cab			er day
		Da	ata Source: (C	CRG)
Cost Breakdown:		I merrorate a second		
	<b>\$20.05</b>	Utilization %		
Ownership Cost/Ho		NA		
Operating Cost/Ho Operator Cost/Ho		100		
Total Unit Cost/Ho		NA		
Total Ollit Cost/Ho	ul. \$97.90			
Total Fleet Cost/Ho	our: \$195.79			
	3 <del></del>			
MATERIAL QUANTII	TIES		1 125	
MATERIAL QUANTIT	<u>ries</u>	CCY Swell factor:	1.125	
MATERIAL QUANTIT	<u>CIES</u> 272	LCY		
MATERIAL QUANTIT	CIES       C         272       I         estimated volume:       I	LCY Division of Reclamation, Min		
MATERIAL QUANTIT	CIES       C         272       I         estimated volume:       I	LCY		
MATERIAL QUANTIT	CIES       0         272       I         estimated volume:       I         nated swell factor:       0	LCY Division of Reclamation, Min		
MATERIAL QUANTIT	CIES       0         272       1         estimated volume:       1         nated swell factor:       0	LCY Division of Reclamation, Min		
MATERIAL QUANTIT	CIES       0         272       1         estimated volume:       1         nated swell factor:       0         ON	LCY Division of Reclamation, Min	ning & Safety	minutes
MATERIAL QUANTIT	CIES       0         272       1         estimated volume:       1         nated swell factor:       0         ON	LCY Division of Reclamation, Min Cat Handbook	ning & Safety ver):0.483	
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material:	CIES       C         272       I         estimated volume:       I         nated swell factor:       C         ON       Unadjusted Basic Cyc         Bank or broken mate       Bank or broken mate	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04	ning & Safety	Source
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile:	CIES       0         272       I         estimated volume:       I         nated swell factor:       0         ON       0         Unadjusted Basic Cyc       0         Bank or broken mate       0         Conveyor or dozer       0	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04 piled 10 ft. high or less 0.01	ver): 0.483	
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CIES       0         272       I         estimated volume:       I         nated swell factor:       0         ON       0         Unadjusted Basic Cyc       0         Bank or broken mar       0         Conveyor or dozer       0         No adjustment - fac       0	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04 piled 10 ft. high or less 0.01 etor not applicable 0.00	ver): 0.483 Factor (min.) 0.040 0.010 0.000	Source (Cat HB)
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CIES       C         272       I         estimated volume:       I         nated swell factor:       C         ON       C         Unadjusted Basic Cyc       I         Bank or broken mar       Conveyor or dozer         No adjustment - fac       Constant operation	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04 piled 10 ft. high or less 0.01 ctor not applicable 0.00 -0.04	ver): 0.483 Factor (min.) 0.040 0.010 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CIES       C         272       I         estimated volume:       I         nated swell factor:       C         ON       C         Unadjusted Basic Cyc       I         Bank or broken mar       Conveyor or dozer         No adjustment - fac       Constant operation	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04 piled 10 ft. high or less 0.01 etor not applicable 0.00 -0.04 etor not applicable 0.00	ver): 0.483 Factor (min.) 0.040 0.010 0.000 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTIT Initial volume: 242 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CIES       C         272       I         estimated volume:       I         nated swell factor:       C         ON       C         Unadjusted Basic Cyc       I         Bank or broken mar       Conveyor or dozer         No adjustment - fac       Constant operation	LCY Division of Reclamation, Min Cat Handbook le Time (load, dump, maneuv terial 0.04 piled 10 ft. high or less 0.01 ctor not applicable 0.00 -0.04	ver): 0.483 Factor (min.) 0.040 0.010 0.000 -0.040 0.000 : 0.010	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)

Haul:Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Return:Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	175	0.00	8.00	8.00	0.1959	(Cat HB)
Return Route:	175	0.00	8.00	8.00	0.1781	(Cat HB)

		Total Travel T Total Cycle T		minutes
Load Bucket Capacity		I otal Cycle I	ime:0.8665	minutes
Rated Capacity Bucket Fill Factor Adjusted Capacity	: 1.100	LCY (heaped) Other - rock/dirt mixtures LCY	(100-120%) 1.100	
<u>Job Condition Correction</u> Site Altitude: <u>10800</u> feet	Factors			
A	0.92 0.83 0.76 djusted Hourly Unit P djusted Hourly Unit P djusted Hourly Fleet P	roduction: 226.84	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>ST</u>			
Fleet size: 2	Loader(s)	Total job time:	0.60	Hours
Unit cost:\$0.4	32 /LCY	Total job cost:	\$117.00	_

Incas Mine		Permit Action:	2012 Inspection	P	ermit/Job#:	M1986076
PROJECT IDENT	IFICATI	ON				
Task #: 009		State: Colorado		Abb	reviation:	None
Date: 11/23/2	012	County: La Plata			Filename:	M076-009
User: KAP						141070-007
Agency or o	rganization	name: DRMS	······			
HOURLY EQUIP	MENT CO	<u>DST</u>				
Basic Machine	: CAT 93	38H		Horsepower:		172
Attachment 1	: ROPS (	Cab		Shift Basis:		er day
	-			Data Source:		CRG)
Cost Breakdown:					(0	
COST DICARAUMII.		ſ	Utilization %			
Ownership Co	st/Hour:	\$22.07	NA			
Operating Co		\$37.34	100	-		
Operator Co		\$38.49	NA	-		
Total Unit Co		\$97.90		-		
Total Fleet Co	ost/Hour:	\$195.79				
	NTITIES					
MATERIAL QUA		2014				
MATERIAL QUA	97	CCY	Swell facto	r: <u>1.125</u>		
MATERIAL QUA	97	09 CCY	Swell facto	r: <u>1.125</u>		
MATERIAL QUA Initial volume: Loose volume:	97 1	09 LCY		-		
MATERIAL QUA Initial volume: Loose volume: Source	97 1 ce of estima	09 LCY	of Reclamation, M	-	y	
MATERIAL QUA Initial volume: Loose volume: Source	97 1 ce of estima	09 LCY ted volume: Division	of Reclamation, M	-	y	
MATERIAL QUA Initial volume: Loose volume: Source	97 1 ce of estima f estimated s	09 LCY ted volume: Division	of Reclamation, M	-	y	
MATERIAL QUA Initial volume: Loose volume: Source of	97 1 ce of estima restimated s CTION	09 LCY ted volume: Division swell factor: Cat Hand	of Reclamation, M lbook	ining & Safet		minutes
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU	97 1 ce of estimated s certion Unadj	09 LCY ted volume: Division	of Reclamation, M lbook	uver):	0.483	minutes
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa	97 1 2e of estima S estimated s CTION Unadj ctors	09 LCY ted volume: Division swell factor: Cat Hand	of Reclamation, M lbook (load, dump, mane	uver):Factor	0.483 c (min.)	Source
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa	97 1 2e of estimated s CTION Unadj ctors erial: Ban	09 LCY ted volume: <u>Division</u> well factor: <u>Cat Hand</u> usted Basic Cycle Time	of Reclamation, M lbook (load, dump, mane	uver): Factor	0.483 r (min.) 040	Source (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate	97 te of estimated s CTION Unadj ctors erial: Bar spile: Con	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time	of Reclamation, M lbook (load, dump, mane )4 ft. high or less 0.0	uver): 1	0.483 r (min.) 040 010	Source (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock	97 te of estimated s CETION Unadj ctors erial: Bar pile: Cor ship: No	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10	of Reclamation, M lbook (load, dump, mane )4 ft. high or less 0.0	uver): 1 0.1 0.1	0.483 r (min.) 040	Source (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner	97 2e of estimated s Sestimated s CTION Unadj ctors erial: Bar spile: Cor ship: No tion: Cor	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a	of Reclamation, M lbook (load, dump, mane 04 ft. high or less 0.0 applicable 0.00	uver):	0.483 r (min.) 040 010 000 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner Opera	97 2e of estimated s Sestimated s CTION Unadj ctors erial: Bar spile: Cor ship: No tion: Cor	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a nstant operation -0.04 adjustment - factor not a	of Reclamation, M lbook (load, dump, mane 04 ft. high or less 0.0 applicable 0.00	uver): Factor	0.483 c (min.) 040 010 000 040 000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner Opera	97 2e of estimated s Sestimated s CTION Unadj ctors erial: Bar spile: Cor ship: No tion: Cor	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a nstant operation -0.04 adjustment - factor not a Net Cyc	of Reclamation, M lbook (load, dump, mane )4 ft. high or less 0.0 applicable 0.00	Factor           0.1           0.1           0.1           0.1           0.1           0.1           0.1           0.1	0.483 r (min.) 040 010 000 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUA Initial volume: Loose volume: Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner Opera	97 te of estimated s estimated s CTION Unadj ctors erial: Ban cpile: Con ship: No ship: No tion: Con rget: No	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a nstant operation -0.04 adjustment - factor not a Net Cyc Adjust	of Reclamation, M lbook (load, dump, mane )4 ft. high or less 0.0 applicable 0.00 cle Time Adjustme	Factor           0.1           0.1           0.1           0.1           0.1           0.1           0.1           0.1	0.483 c (min.) 040 010 000 040 000 010	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
MATERIAL QUA Initial volume: Loose volume: Source Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner Opera Dump Ta Rolling Resistance – R	97 2e of estimated s Sestimated s CTION Unadj ctors erial: Bar spile: Cor ship: No tion: Cor rget: No coad Conditi	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a nstant operation -0.04 adjustment - factor not a Net Cyc Adjust	of Reclamation, M lbook (load, dump, mane 04 ft. high or less 0.0 applicable 0.00 cle Time Adjustme ed Basic Cycle Tim	uver):	0.483 (min.) 040 010 000 040 000 010 493	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
MATERIAL QUA Initial volume: Loose volume: Source of HOURLY PRODU Loader Cycle Time: Cycle Time Fa Mate Stock Truck Owner Opera Dump Ta	97 2e of estimated s Sestimated s CTION Unadj ctors erial: Bar ship: No tion: Con rget: No coad Conditi ul: Soft, 1	09 LCY ted volume: Division well factor: Cat Hand usted Basic Cycle Time nk or broken material 0.0 nveyor or dozer piled 10 adjustment - factor not a nstant operation -0.04 adjustment - factor not a Net Cyc Adjust	of Reclamation, M lbook (load, dump, mane 04 ft. high or less 0.0 applicable 0.00 cle Time Adjustme ed Basic Cycle Tim	uver):	0.483 (min.) 040 010 000 040 000 010 493 .0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	175	0.00	8.00	8.00	0.1959	(Cat HB)
Return Route:	175	0.00	8.00	8.00	0.1781	(Cat HB)

		Total Travel T Total Cycle T		minutes minutes
Load Bucket Capacity				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity: Job Condition Correction F	3.90 1.100 4.29	LCY (heaped) Other - rock/dirt mixtures LCY	(100-120%) 1.100	
Site Altitude: 10800 feet				
Ad	0.92 0.83 0.76 justed Hourly Unit F justed Hourly Unit F usted Hourly Fleet F	Production: 226.84	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u>r</u>			
Fleet size: 2	Loader(s)	Total job time:	0.24	Hours
Unit cost:\$0.43	2 /LCY	Total job cost:	\$47.00	

# SAFEGUARDING UNDERGROUND OPENINGS

	Task description:	Seal existin	g underground	openings		
Site:	Incas Mine		Permit Action:	2012 Inspection	Permit/.	Job#: M1986076
<u>PROJE</u>	CT IDENTIFICATION	Ī				
Task # Date User	: 11/23/2012	State: County:	Colorado La Plata		Abbreviation: Filename:	None M076-010
	Agency or organizat	ion name: _	DRMS			
<u>UNIT C</u>	COSTS					

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Adit 1, entry portions	5'H x 4.5'W x 25'L	Adit closure - backfilling (per opening)	1.00	EA	\$1,852.00	\$1,852.00

Job Hours: 0.00

Total Cost: \$1,852.00

# **REVEGETATION WORK**

Task description:	Revegetate					
: Incas Mine	Perr	Permit Action: 2012 Inspection			M1986076	
PROJECT IDENTIFI	CATION					
Task #:         011           Date:         11/23/2012           User:         KAP	State: County:	Colorado La Plata		Abbreviation: Filename:		
Agency or organ	ization name:DR	MS				
Agency or organ	nization name: <u>DR</u>	MS				
	nization name: <u>DR</u>	MS				
FERTILIZING	nization name: <u>DR</u>	MS Units / Acre	Unit	Cost / Unit	Cost /Acre	
FERTILIZING Materials		Units /	Unit pound	<b>Cost / Unit</b> \$0.32	Cost /Acre \$80.00	

# Application

	Cost /Acre
	\$85.38
Total Fertilizer Application Cost/Acre	\$85.38
	Total Fertilizer Application Cost/Acre

# **TILLING**

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$92.35
	Total Tilling Cost/Acre	\$92.35

# SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	0.90	10.33	\$9.72
Mountain Brome - Bromar	3.80	6.11	\$12.65
Pubescent Wheatgrass - Luna	2.80	5.79	\$6.13
Sheep Fescue - Covar	0.80	12.49	\$2.62
Thickspike Wheatgrass - Critana	2.20	7.78	\$11.13
Totals Seed Mix	10.50	42.49	\$42.26

### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$255.76

Total Seed Application Cost/Acre

\$255.76

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$164.00	\$164.00
Total Mulch Materials Cost/Acre				\$164.00

### Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0250)		\$79.71
	Total Mulch Application Cost/Acre	\$79.71

### **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

### JOB TIME AND COST

	No. of Acres:	3	Cost /Acre:	\$799.46
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$799.46
*Selected Replanting Work Items:		FERTILIZING, TIL	LING,SEEDING,MU	
		LCHING		
Initial Job Cost:	\$2,398.38			
Reseeding Job Cost:	\$599.60			
Total Job Cost:	\$2,997.98			
Job Hours:	0.00			

# DEMOLITION WORK

	Task description:	Dispose f b	oackfill devris, re	emove chemicals and	d containers		
Site:	Incas Mine		Permit Action:	2012 Inspection	Permit/.	Job#: <u>M1986076</u>	
PROJE	CT IDENTIFICATION	<u>v</u>					
Task #:		State:			Abbreviation:	None	
Date: User:		County:	La Plata	<u> </u>	Filename:	M076-012	
	Agency or organizat	ion name:	DRMS				

### UNIT COSTS

# Location adjustment: 94.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Surface piping (waster supply)	500LF x 1" diam, plastic	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	500.00	CY	\$0.46	\$229.00
Above ground wiring	1000 LF plus supports	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	1,000.00	CY	\$0.46	\$458.00
Misc. equipment parts	10' x 10' x 20'	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	74.00	CY	\$0.46	\$33.89
Opened container processing chemicals	2 55-gal. drums	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$415.65	\$831.30
Sludges, residue, solvents, mill circuit	2 55-gal. drums	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$415.65	\$831.30

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	10.00	(unadjusted):	\$2,383.49	location):	\$2,240.48

# MILLING CIRCUIT/CYANIDE VAT LEACH DETOXIFICATION WORK

Site: Incas Mine		Permit Ac	tion: 2012 Inspect	ion	Permit/Job#:	M1986076
PROJECT IDEN	TIFICATION	1				
Task #: 015		and the second se	orado		Abbreviation:	None
	/2012	County: La I	Plata		Filename:	M076-015
User: KAP						
Agency or	organization nat	ne: DRMS				
HOURLY EQUI	PMENT COS	Γ			Shift basis: 1	per day
		_	Description			
	Pumpir	ng Equipment:	Diaphragm pump,	3 in.		
		- Unit 1:	NA			
		<ul> <li>Unit 2:</li> <li>Unit 3:</li> </ul>	NA NA			
		- Unit 4:	NA			
		- Unit 5:	NA			
Cost Breakdown:			Detoxi	fication Supp	ort Equipment	
	Pumping	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
	Equip	Equip	Equip	Equip	Equip	Equip
	Pumping					
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$1.28	NA	NA	NA	NA	NA
Operating cost/hour:	\$2.17	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$19.42	NA	NA	NA	NA	NA
Unit Subtotals:	\$22.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Number of Units:	1	0	0	0	0	0
Group Subtotals:	\$22.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Maximum Circuit Volume =	1,000.00	gallons
Initial Cyanide Concentration =	15.00	PPM
Solution Unit Weight =	10.00	pounds/gallons
Total Solution Weight =	10,000	pounds
Total Cyanide Quantity =	0.15	pounds
Source of leach pad volume/pore space data:	AM-02	
Source of CN Concentration Data:	AM-02	

# **PUMPING TIME**

	3	required rinses
Total Quantity of Rinse Water =	3,000	gallons
Maximum Pump Capacity =	6,000	gph/pump unit
Suction Head =	8	feet
Discharge Head =	8	feet
Total Head =	16	feet

CIRCES Cost Estimating Software

Unadjusted Pump Capacity =	4,020	gph/pump team
Equipment setup/takedown time =	4.00	hours

Site Altitude =	10,800	feet
Altitude Adjustment Factor =	0.8800	(DRMS est.)
Job/Pump Efficiency Factor =	0.9167	(55 min./hr.)
Net Adjustment =	0.8067	multiplier
Adjusted Pump Capacity =	3,243	gph
Total Pumping Time =	0.93	hours
Total Job Time =	4.93	hours

### **MATERIALS COSTS**

	Description	Unit	Unit Cost	Quantity	<b>Total Cost</b>
Processing Water:	ADEQUATE PROCESS WATER AVAILABLE ON SITE AT NO COST	NA	\$0.00	0.00	\$0.00
Neutralizing Reagent:	Hydrogen peroxide (cyanide oxidation)	Pound	\$2.10	0.60	\$1.26
Misc Material 1:	NO MISCELLANEOUS MATERIALS REQUIRED	NA	\$0.00	0.00	\$0.00
Misc Material 2:	NO MISCELLANEOUS MATERIALS REQUIRED	NA	\$0.00	0.00	\$0.00

Total Materials Cost: \_\_\_\_\_\$1.26

Reagent Concentration (% Active Ingredient) =50.00%Required Ration of Reagent Quantity to CN Quantity =4.00:1 ratio

### **MISCELLANSOUS ITEMS**

Description	Unit	Unit Cost	Quantity	Total Cost
		Total M	aterials Cost:	\$0.00
OB TIME AND COST		m-4-11-1-4*		
		Total job time	4.93	hours
Unit cost: <b>\$0.227</b> /Ho		Total job cost	\$227.00	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

: Incas Mine		Permit A	Action: 2012 ]	nspection	Pe	ermit/Job#:M	1986076
PROJECT IDE	NTIFICAT	ION					
Task #:014		State: Co	olorado		Abbi	reviation: No	one
Date: 11/2 User: KAI	23/2012 P	County: La	a Plata		F	Filename: MO	076-014
Agency	or organizatio	n name:DRMS					
EQUIPMENT 7	<b>FRANSPOF</b>	AT RIG COST					
					Shift ba	asis: 1 per	dav
					Cost Data Sou		
Truck	Tractor Desc	cription: GEN	ERIC ON-HIGH	IWAY TR	UCK TRACTO	OR 6X4 DIES	EL POWERED,
					P (2ND HALF,		ELIOWERED,
Truck	k Trailer Desc	ription: GENE	RIC FOLDING				IENT TRAILER
		2		(257	r, 50T, AND 10	00T)	
Cost Breakdown:							
		0-25 Tons	26-50 Tons	51	+ Tons		
Ownership	Cost/Hour:	\$16.63	\$18.37	9	\$22.33		
Ownership Operating	Cost/Hour: Cost/Hour:	\$16.63 \$44.38	\$18.37 \$46.13	9	522.33 550.07		
Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66	\$18.37 \$46.13 \$27.66	9	522.33 550.07 527.66		
Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66 \$0.00	\$18.37 \$46.13 \$27.66 \$25.39	9 9 9 9 9	522.33 550.07 527.66 525.39		
Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66	\$18.37 \$46.13 \$27.66	9 9 9 9 9	522.33 550.07 527.66		
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	9 9 9 9 9	522.33 550.07 527.66 525.39		
Ownership Operating Operator Helper Total Unit <b>NON ROADAB</b> Machine	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	9 9 9 9 9	522.33 550.07 527.66 525.39	Return Trip	
Ownership Operating Operator Helper Total Unit <b>NON ROADAB</b> Machine	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	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$22.33         \$50.07         \$27.66         \$25.39         \$125.45	Return Trip Cost/hr/ fleet	DOT Perm Cost/ fleet
Ownership Operating Operator Helper Total Unit <b>NON ROADAB</b> Machine Description CAT 938H	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS) 16.34	\$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	s s s f Fleet	222.33 550.07 527.66 525.39 125.45 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet \$177.34	Cost/ fleet
Ownership Operating Operator Helper Total Unit <b>NON ROADAB</b> Machine Description CAT 938H Cat 319D L 8'-10" Stick	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Unit (TONS) 16.34 21.50	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$22.07 \$22.27	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	s s s s f leet Size	222.33 50.07 527.66 525.39 125.45 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	
Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIP Weight/ Unit (TONS) 16.34	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 <b>MENT:</b> Owner ship Cost/hr/ unit \$22.07	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$88.67	s s s s s s s s s s z e	222.33 50.07 527.66 525.39 125.45 Haul Trip Cost/hr/ fleet \$221.49	Cost/hr/ fleet	\$500.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 15K GVW	\$45.57	1	\$45.57	\$45.57
Light Duty Pickup, 4x4, 3/4 T.	\$34.08	1	\$34.08	\$34.08

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

Nearest Major City or Town within project area region:	DURANGO	
Total one-way travel distance:	20.00	miles
Average Travel Speed:	25.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,465.02	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$127.44	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.80	0.80
Return Time (Hours):	0.80	0.80
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.60	1.60

### JOB TIME AND COST

Total job time: 7.20 Hours

Total job cost: \$4,592.46