## COST SUMMARY WORK

Bowie No.	2 Mine		Permit Action:	Minor Revision 135	Permit/Job#: C199608	83
PROJECT :	IDENTIFICATIO	<u>DN</u>				
Task #:	342	State:	Colorado		Abbreviation:	None
Task #: Date:	342 4/2/2013	State: County:	Colorado Delta		_ Abbreviation: 	None C083-342

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
338	Plug and Seal GVB B13C-1	BOREHOLE	1	10.00	\$5,544.98
339	Reseed road and pad for GVB B13C-1	REVEGE	1	0.20	\$1,767.07
340	Regrade GVB B13C-1 pad and road	DOZER	1	13.39	\$3,338.67
341	Re-topsoil GVB B13C-1	DOZER	1	5.68	\$1,417.10
333	Credit for plug/seal of B13 vent hole - not drilled	BOREHOLE	1	48.00	(\$23,729.33)
		77.27	(\$11,661.51)		

## **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	(\$235.56)
Performance bond:	1.05%	Total =	(\$122.45)
Job superintendent:	10.00 hrs	Total =	\$654.10
Profit:	10.00%	Total =	(\$1,166.15)
		TOTAL O & P =	(\$870.06)
		CONTRACT AMOUNT (direct + O & P) = $($	(\$12,531.57)

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	0.00		Total =	
Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	4.00%		Total =	(\$501.26) (\$392.24)
	011070			(\$\$\$2.2.1)
CONTINGENCY:	0.00		Total =	\$0.00
		TOTAL	INDIRECT COST =	(\$1,763.56)
ΤΟΤΑ	(\$13,425.07)			

## BOREHOLE SEALING WORK

-	Task description:	Plug and S	eal GVB B13C-1	1			
Site:	Bowie No. 2 Mine		Permit Action:	Minor Revision 135	Permit/J	ob#:	C1996083
PROJE	CT IDENTIFICATION	<u>N</u>					
Task #:	338	State:	Colorado		Abbreviation:	Non	e
Date:	4/2/2013	County:	Delta		Filename:	C08	3-338
User:	SLB				-		
	Agency or organizat	ion name:	DRMS				

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Bottom Plug	PVC plug - 10 in. diameter borehole	10	1100	1.00	EA	\$96.54	\$96.54
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	10	1100	264.00	bag	\$11.50	\$3,036.00
- Cut Casing at Surface	Exposed casing removal - 8 to 14 in. diameter steel pipe (LF)	10	NA	3.00	LF	\$8.81	\$26.43
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$2.81	\$2.81
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	10.00	EA	\$174.62	\$1,746.20
- Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	10.00	EA	\$63.70	\$637.00

 Job Hours:
 10
 Total Cost:
 \$5,544.98

# **REVEGETATION WORK**

Bowie No.	2 Mine	Permit Ac	tion: Minor Revision 135	Permit/Job#: C1996083	
<b>PROJECT</b>	IDENTIFIC	<u>CATION</u>			
Task #:	339	State:	Colorado	Abbreviation:	None
	4/2/2013	County:	Delta	Filename:	C083-339
Date:					

# **FERTILIZING**

# Materials

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

#### Application

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

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	3.00	9.71	\$21.24
Bluebunch Wheatgrass - Secar	3.00	9.64	\$20.52
Mountain Brome - Bromar	3.00	4.82	\$10.20
Sandberg Bluegrass - VNS	3.00	63.71	\$26.04
Coreopsis, Lance Leafed	1.00	25.58	\$30.65
Western Wheatgrass - Arriba	4.00	10.10	\$14.72
Daisy, Englemann's	1.00	4.94	\$104.61
Prairie Junegrass	2.00	106.31	\$68.80
Golden Banner	1.00	2.00	\$87.57
Totals Seed Mix	21.00	236.80	\$384.35

Description		Cost /Acre
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
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

# **NURSERY STOCK PLANTING**

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

# JOB TIME AND COST

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	No. of Acres:	1.27	Cost /Acre	: \$1,155.12
Estimate	ed Failure Rate:	50%	Cost /Acre*	: \$472.55
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$1,467.00			
Reseeding Job Cost:	\$300.07		_	
Total Job Cost:	\$1,767.07		-	
Job Hours:	2.00		-	

## BULLDOZER WORK

Task description:	Regrade (	GVB B13C-1 pad a				
Bowie No. 2 Mine		Permit Action:	Minor Revision 135	Permit/Job	#: <u>C1996083</u>	
PROJECT IDENT	<b>IFICATION</b>					
Task #: 340		State: Co	olorado		Abbreviation:	None
Date: 4/2/20	13	County: De	elta		Filename:	C083-340
User: SLB						
Agency	y or organization	name: DRMS				
	-					
HOURLY EQUIPM Basic Machine:	Cat D9T - 9SU	T				
Horsepower:	405	0				
Blade Type:	Semi-Universa	al				
Attachment:	NA	ui				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
			<u>Util</u>	ization %		
Ownership Cost/		\$69.88		NA	_	
Operating Cost/		\$142.13		100	_	
Ripper op. Cost/		\$0.00		0	_	
	Hour	\$37.41		NA	_	
Operator Cost/						
Operator Cost/		)				
	\$249.42					
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u>	\$249.42 <b>\$249.42</b> <b>\$249.42</b>					
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour:	\$249.42 <b>\$249.4</b> 2					
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo	\$249.42 <b>\$249.42</b> <b>\$249.42</b> <b>\$249.42</b> <b>3</b> ,074 1.165 <b>3,581</b> LCY olume:	2  	e 1.5' material over 1.2'	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: Swell factor: Loose volume:	\$249.42 <b>\$249.42</b> <b>\$249.42</b> <b>\$249.42</b> <b>3</b> ,074 1.165 <b>3,581</b> LCY olume:	2	e 1.5' material over 1.2'	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo	\$249.42 <b>\$249.42</b> <b>\$249.42</b> <b>NTITIES</b> 3,074 1.165 <b>3,581</b> LCY slume: well factor:	2  	e 1.5' material over 1.2'	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw HOURLY PRODU	\$249.42 <b>\$249.42</b> <b>\$249.42</b> <b>NTITIES</b> 3,074 1.165 <b>3,581</b> LCY blume: vell factor: <b>CTION</b>	2  	e 1.5' material over 1.2'	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw HOURLY PRODU	\$249.42 \$249.42 \$249.42 <b>NTITIES</b> 3,074 1.165 <b>3,581</b> LCY blume: vell factor: <b>CTION</b> :	2  DRMS - assume Cat Handbook	e 1.5' material over 1.2'	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance	\$249.42 \$249.42 \$249.42 <b>NTITIES</b> 3,074 1.165 <b>3,581</b> LCY blume: vell factor: <b>CTION</b> : duction:	2 DRMS - assume Cat Handbook		7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient	\$249.42 \$24	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated		7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude:	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :         duction:            description: <td:< td="">       20 %         7,725 fe</td:<>	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet		7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight:	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet bs/LCY	stockpile 1.0	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description:	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet	stockpile 1.0 Rock, 50% Earth	7 acres		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correcting	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :         description:         :       20 %         7,725 fc         2,900 lt         Decomption         ion Factor	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet os/LCY posed rock - 50% F	stockpile 1.0 Rock, 50% Earth Source			
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo S	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         duction:            description:         :             description:         :              description:                      description:	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet bs/LCY posed rock - 50% F 0.750	stockpile 1.0 Rock, 50% Earth Source	(AVG.)		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correcti O Material	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :          duction:	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet bs/LCY posed rock - 50% F 0.750 1.000	stockpile 1.0 Rock, 50% Earth Source	(AVG.) (CAT HB)		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correcti O Material	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         well factor:         CTION         :	2     	stockpile 1.0 Rock, 50% Earth Source	(AVG.) (CAT HB) (GEN.)		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction O Material Do	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         vell factor:         CTION         :	2 DRMS - assume Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated eet bs/LCY posed rock - 50% F 0.750 1.000 1.000 1.000	stockpile 1.0 Rock, 50% Earth Source	(AVG.) (CAT HB) (GEN.) (AVG.)		
Operator Cost/ Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction O Material Do	\$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$249.42         \$3,074         1.165         3,074         1.165         3,581 LCY         olume:         well factor:         CTION         :	2     	stockpile 1.0  Rock, 50% Earth  Source  (	(AVG.) (CAT HB) (GEN.)		

Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2152

Adjusted unit production:	267.54 LCY/hr
Adjusted fleet production:	267.54 LCY/hr

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.932/LCY

 Total job time:
 13.39 Hours

 Total job cost:
 \$3,338.67

## BULLDOZER WORK

Task description:	Re-to	psoil GVB B13C-1				
Bowie No. 2 Mine		Permit Action:	Minor Revision 135	Permit/Job	o#: <u>C1996083</u>	
PROJECT IDENT	<u>'IFICATI(</u>	<u>DN</u>				
Task #: $341$ Date: $4/2/20$	)13		olorado elta		Abbreviation: Filename:	None C083-341
User: <u>SLB</u>						
Agenc	y or organiz	ation name: DRMS				
HOURLY EQUIPM	<u>MENT CO</u>	<u>OST</u>				
Basic Machine:	Cat D9T	- 9SU				
Horsepower:	405	·				
Blade Type:	Semi-Uni	iversal				
Attachment: Shift Basis:	NA 1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
	( <b>T T</b>	¢.co. 00	<u>Utili</u>	ization %		
Ownership Cost/		\$69.88		NA	_	
Operating Cost/		\$142.13		100	_	
Ripper op. Cost/		\$0.00		0	_	
Operator Cost/	Hour:	\$37.41		NA	_	
	<b>^</b>	49.42				
Total unit Cost/Hour:	\$2.	49.47				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUA Initial Volume:	: <u>\$2</u>	49.42				
Total Fleet Cost/Hour:	: <b>\$2</b> <b>NTITIES</b> 1,537 1.125 <b>1,729</b> LCY	49.42	over 1.27 ac			
Total Fleet Cost/Hour: MATERIAL QUA Initial Volume: Swell factor: Loose volume:	: <b>\$2</b> <b>NTITIES</b> 1,537 1.125 <b>1,729</b> LCY olume:	<b>49.42</b>	over 1.27 ac			
Total Fleet Cost/Hour: MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated vo	: <b>\$2</b> <b>NTITIES</b> 1,537 1.125 <b>1,729</b> LCY olume: well factor:	<b>49.42</b>	over 1.27 ac			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw HOURLY PRODU	: <b>\$2</b> <u>NTITIES</u> <u>1,537</u> <u>1.125</u> <b>1,729</b> LCY olume: well factor: <u>UCTION</u>	<b>49.42</b> Z DRMS - 0.75' c Cat Handbook	over 1.27 ac			
Total Fleet Cost/Hour: MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated sw	: <b>\$2</b> <b>NTITIES</b> 1,537 1.125 <b>1,729</b> LCY olume: well factor: <b>JCTION</b> e:	<b>49.42</b>	over 1.27 ac			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated swell HOURLY PRODU Average push distance	: <b>\$2</b> <b>NTITIES</b> 1,537 1.125 <b>1,729</b> LCY olume: well factor: <b>VCTION</b> e: oduction:	<b>49.42</b> <u> <u> </u> <u> </u></u>	over 1.27 ac			
Total Fleet Cost/Hour:          MATERIAL QUAL         Initial Volume:         Swell factor:         Loose volume:         Source of estimated volume:         Source of estimated swell         HOURLY PRODU         Average push distance         Unadjusted hourly pro         Materials consistency         Average push gradient	: <b>\$2</b> <u>NTITIES</u> <u>1,537</u> <u>1.125</u> <b>1,729</b> LCY olume: well factor: <u>VCTION</u> e: oduction: description: t: <u>20</u>	<b>49.42</b> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u></u>				
Total Fleet Cost/Hour:          MATERIAL QUAL         Initial Volume:         Swell factor:         Loose volume:         Source of estimated vo         Source of estimated sv         HOURLY PRODU         Average push distance         Unadjusted hourly pro         Materials consistency	: <b>\$2</b> <u>NTITIES</u> <u>1,537</u> <u>1.125</u> <b>1,729</b> LCY olume: well factor: <u>VCTION</u> e: oduction: description: t: <u>20</u>	<b>49.42</b> <u>Z</u> <u>DRMS - 0.75' c</u> <u>Cat Handbook</u> <u>100 feet</u> <u>1,243.2 LCY/hr</u> <u>Consolidated</u>				
Total Fleet Cost/Hour:          MATERIAL QUAL         Initial Volume:         Swell factor:         Loose volume:         Source of estimated volume         Source of estimated swell         HOURLY PRODU         Average push distance         Unadjusted hourly pro         Materials consistency         Average push gradient	$\frac{\$}{20}$ $\frac{\$}{1,537}$ $1.125$ $1,729$ $1,7$	<b>49.42</b> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u>()</u> <u></u>				
Total Fleet Cost/Hour: MATERIAL QUAL Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated swell HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description:	$\frac{\$24}{1,537}$ $1.125$ $1,729$ $1.72$	49.42 49.42 DRMS - 0.75' c Cat Handbook 100 feet 1,243.2 LCY/hr Consolidated % 725 feet	l stockpile 1.0			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated swell Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	$\frac{\$24}{1,537}$ $1.125$ $1,729$ $1.72$	49.42 49.42	l stockpile 1.0			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Source of estimated swell Mourney PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct O	$\frac{\$24}{1,537}$ $1,537$ $1,125$ $1,729$ LCY olume: well factor: $\frac{1}{1,729}$ well factor: $\frac{1}{1,729}$ description: $\frac{1}{1,729}$ $\frac{2,5}{1,729}$ $\frac{1}{1,729}$ $\frac{1}{1$	49.42         Image: Application of the stress of the str	l stockpile 1.0	(AVG.)		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated swell Average push distance Unadjusted hourly prov Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct O Material	$\frac{\$24}{1,537}$ $1,537$ $1,125$ $1,729$ LCY olume: well factor: $\frac{1,729}{1,729}$ bduction: $\frac{1,729}{1,729}$ $\frac{1,729}{1,729}$ $\frac{1,729}{1,729}$ $\frac{1,729}{1,729}$ $\frac{2,5}{1,729}$ $\frac{1,537}{1,729}$ $\frac{1,537}{1$	49.42	l stockpile 1.0	(CAT HB)		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated swell Average push distance Unadjusted hourly prov Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct O Material		49.42	I stockpile 1.0	(CAT HB) (GEN.)		
Total Fleet Cost/Hour: MATERIAL QUAI Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated swell HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct O Material Do	: \$24 NTITIES 1,537 1.125 1,729 LCY olume: well factor: UCTION e: oduction: description: t: 20 7,7 2,5 Ea tion Factor perator Skill l consistency pzing methoo Visibility	49.42         49.42	l stockpile 1.0	(CAT HB) (GEN.) (AVG.)		
Total Fleet Cost/Hour: MATERIAL QUAI Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated swell HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct O Material Do		49.42         49.42         Image: Construct of the system	l stockpile 1.0 Source (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(CAT HB) (GEN.)		

Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2448

Adjusted unit production:	304.34 LCY/hr
Adjusted fleet production:	<b>304.34</b> LCY/hr

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.820/LCY

 Total job time:
 5.68 Hours

 Total job cost:
 \$1,417.10