STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

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

September 19, 2013

Gary Boyce Boyce Land & Cattle Co., LLC 17425 Rd. 66T Moffat, CO 81143



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Pineda Director

Re: File No. M-2013-054, Cotton Creek Pit, 110c Decision Letter - Financial and Performance Warranty Request - Construction Material Operation

Dear Mr. Boyce,

On September 17, 2013, the Division of Reclamation, Mining and Safety approved your 110c mining permit application.

The amount of financial warranty set by the Division for this operation is \$10,120.74. You must submit a financial warranty in this amount and a performance warranty in order for us to issue a permit. In the event you have requested a financial warranty form, we have enclosed it in this letter. If you have not, please select a type of financial warranty from Rule 4.3. Then contact us so that we can provide you with the appropriate warranty form. Alternatively, you may fill out and print the proper form from our website, by going to: http://mining.state.co.us/Forms/Pages/WarrantyForms.aspx

We have enclosed a performance warranty form with this letter for your use.

PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION <u>AFTER</u> RECEIPT OF YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY. A PERMIT WILL NOT BE ISSUED UNTIL WE VERIFY THE ADEQUACY OF BOTH YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY.

If you have any questions, please contact me in Durango at 970-247-5193.

Sincerely,

Bob Oswald

Environmental Protection Specialist

Enclosure: Reclamation cost estimate, Performance Warranty form

Cc(w/encl): Ken Skoglund, Skoglund Excavating Inc., PO Box 209, Moffat, CO 81143

(c:\13-09 docs\M2013054 appr ltr/rco)

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PERFORMANCE WARRANTY

Operator: Gary Boyce

Operation: Cotton Creek Pit

Permit Number: M-2013-054

This form has been approved by the Mined Land Reclamation Board ("Board") pursuant to the Mined Land Reclamation Act (C.R.S. § 34-32-101 <u>et. seq.</u>) ("Hard Rock Act") and associated Rules (2 C.C.R. 407-1) ("Hard Rock Rules") and the Land Reclamation Act for the Extraction of Construction Materials (C.R.S. § 34-32.5-101 <u>et. seq.</u>) ("Construction Materials Act") and associated Rules (2 C.C.R. 407-4) ("Construction Materials Rules"). Any alteration or modification of this form, without approval by the Board shall result in the performance warranty being invalid and result in the voiding of any permit issued in conjunction with such invalid performance warranty and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to sections 34-32-123, C.R.S. of the Hard Rock Act and 34-32.5-123, C.R.S. of Construction Materials Act.

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the Colorado Mined Land Reclamation Act, C.R.S. § 34-32-101 <u>et seq</u>. (the "Hardrock Act"), as amended, and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. § 34-32.5-101 <u>et seq</u>. (the "Construction Materials Act"), as amended (collectively the "Acts"), provide that no permit may be issued until the Mined Land Reclamation Board (the "Board") receives a performance warranty consisting of the Operator's written promise to comply with the requirements of the Hardrock or Construction Materials Act, whichever is applicable.

WHEREAS, <u>Gary Boyce</u> (the "Operator"), has applied for a permit to conduct a mining operation known as <u>Cotton Creek Pit</u> (the "Operation") on certain lands in <u>Saguache</u> County, Colorado. These lands are described in the permit application, as amended and supplemented, and are referred to herein as the "Affected Lands."

WHEREAS, in its application for the permit, the Operator has agreed to be bound by all requirements of the Hardrock or Construction Materials Act and all applicable rules and regulations of the Board, as amended from time to time.

WHEREAS, the Operator hereby gives the Board this performance warranty pursuant to C.R.S. §§ 34-32-117(2) or 34-32.5-117(2), and herein promises the Board that it will comply with all applicable requirements of the Hardrock or Construction Materials Act.

NOW, THEREFORE, The Operator hereby promises the Board that it will comply with all applicable requirements of the Hard Rock or Construction Materials Act and applicable rules and regulations of the Board.

The Operator hereby promises the Board that it will comply with all of the terms of the application for a permit, as amended and supplemented, as well as any conditions attached to the permit by the Board.

The Operator promises the Board, pursuant to C.R.S. §§ 34-32-112(1)(d) or 34-32.5-112(1)(b)(IV), that it has the lawful authority to enter upon the Affected Lands to conduct mining operations, including, but not limited to, reclamation. The Operator further recognizes the right of the Board to enter to reclaim lands affected by the Operation.

The description of lands herein is for convenience of reference only, and no error in such description, revision of the permitted mining area, or disturbance by the Operator of lands outside of the permitted mining area shall alter or diminish the Operator's obligation hereunder, which shall extend to the reclamation of all such lands disturbed.

The obligation of the Operator hereunder is such that, if the Operator shall successfully comply with the requirements of the Hardrock or Construction Materials Act, applicable rules and regulations, and the permit, then the Board, upon a finding that the Operator has so complied, shall release this performance warranty, and the Operator from its obligation hereunder. The obligation of the Operator hereunder shall continue until released by the Board in accordance with applicable law.

The Operator promises to be responsible for the cost of reclamation up to the amount established by the Board and has attached hereto its financial warranty, in accordance with C.R.S. §§ 34-32-117(3) or 34-32.5-117(3). The Operator agrees that it will maintain a financial warranty (or warranties) covering the Board's estimated costs of reclamation in good standing for the entire life of the permit. If the Operator is a unit of County or Municipal government, or is a department or division of State government, the Operator is not required to submit or post any other instrument of financial responsibility but hereby promises to be responsible for the cost of reclamation up to the amount specified by the Board.

If the Board determines that the Operator is in default under this performance warranty and has failed to cure such default, although written notice of such default and ample time to cure such default have been given, the Operator's financial warranty shall be subject to forfeiture.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado. The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND DATED this _____ day of _____, ____.

Operator	(SEAL)
By:	
Title:	

NOTARIZATION OF OPERATOR'S ACKNOWLEDGEMENT

STATE OF)
COUNTY OF) ss.:)
	edged before me this day of,,
	Notary Public
	My Commission Expires
STATE OF COLORADO DEPARTMENT OF NATURAL RESOURCE MINED LAND RECLAMATION BOARD DIVISION OF RECLAMATION, MINING A	
By: Division Director	Date Executed:

Rev. 05/12

COST SUMMARY WORK

Task description:	Cost summary reek Pit		Permit Action:	New 110	Permit/J	ob#: <u>M2013054</u>
PROJECT	IDENTIFICATION	<u>ON</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date: _ User: _	9/19/2013 RCO	County:	Saguache		Filename:	M054-000
0.0000						
Age	ency or organization	name: <u>DR</u>	MS			
TASK LIST	T (DIRECT COST	<u>(S)</u>				

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Dispose of debris	DEMOLISH	1	0.00	\$24.64
002	Reduce pit slopes to 3:1	DOZER] 1	0.94	\$185.70
003	Spread topsoil on pit slopes	DOZER	1	1.63	\$323.64
004	Rip pit floor and staging area	RIPPER] 1	4.52	\$954.00
005	Carry topsoil to pit floor	LOADER	1	4.96	\$472.00
006	Spread topsoil on pit floor	DOZER	1	1.63	\$322.83
007	Revegetate 5-acre disturbed area	REVEGE	1	12.00	\$2,487.29
008	Haul reclamation equipment to and from site	MOBILIZE] 1	5.84	\$3,754.53
5		SUBTO	TALS:	31.52	\$8,524.63

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$172.20
Performance bond:		Total =	\$89.51
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$852.46
		TOTAL O & P =	
		CONTRACT AMOUNT (direct + $O \& P$) =	\$9,638.80

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 0.00% 5.00%	Total = Total =	0.00 \$0.00 \$481.94
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$1,596.11
TOTAL B	\$10,120.74		

DEMOLITION WORK

Task descript	ion: Dispos	se of debris				
Site: Cotton Cre	ite: Cotton Creek Pit Permit Action: New 110 Permit/Job#: M201					M2013054
PROJECT IDENT	IFICATION					
Task #: 001 Date: 9/19/2013 User: RCO		tate: Colorado inty: Saguache		Abbreviat Filena		e
Agenc	y or organization nam	e: DRMS				
UNIT COSTS				Location	adjustment	<u>t: 91.60 %</u>
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Misc debris	15 cy	Push demolished materials/rubble/debris into pit - Max. 50 ft. push	15.00	СҮ	\$0.23	\$3.50
Excavate disposal pit	15 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	15.00	СҮ	\$1.56	\$23.40
Job Hours:	0.00	Subtotal (unadjusted): \$2	26.90	(adju	otal Cost isted for ocation):	\$24.64

Note: Onsite burial of debris is approved as long as there are no hydrocarbons or contaminants, and there is no exposed groundwater.

Page 1 of 2

BULLDOZER WORK

Cotton Creek Pit	Perr	nit Action: <u></u>	New 110	Permit/Job#:	M2013054
ROJECT IDENTIF	FICATION				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: 9/19/2013	County:	Saguache		Filename:	M054-002
User: RCO				1	
Agency or orga	nization name:DR	MS			
IOURLY EQUIPMI	ENT COST				
	t D8T - 8SU				
Horsepower: 31					
	mi-Universal				
Attachment: NA				ž.	
	er day				
Data Source: (Cl	RG)				
ost Breakdown:					
			Utilization %		
Ownership Cost/Hour:	\$56.69		NA		
Operating Cost/Hour:	\$104.03		100		
Ripper op. Cost/Hour:	\$0.00		0		
Operator Cost/Hour:	\$37.41		NA		
atal unit Cast Manue	©100 12	I			
otal unit Cost/Hour: otal Fleet Cost/Hour:	\$198.13 \$198.13				
014111001005/11041.	φ170.1J				
IATERIAL QUANT	TITIES				
	TTIES				
IATERIAL QUANT Initial Volume: 500 Swell factor: 1.33		_			
Initial Volume: 500	0	-			
Initial Volume:500Swell factor:1.33Loose volume:665	0 LCY	- - -			
Initial Volume:500Swell factor:1.33Loose volume:665ource of estimated volume	0 LCY ne: _Division or		Mining & Safety		
Initial Volume:500Swell factor:1.33Loose volume:665	0 LCY ne:		Mining & Safety		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volume 500	0 LCY ne: <u>Division o</u> l factor: <u>Cat Handb</u>		Mining & Safety		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 burce of estimated volur burce of estimated swell OURLY PRODUCT	0 LCY ne: <u>Division o</u> l factor: <u>Cat Handb</u>		Mining & Safety		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volur burce of estimated swell OURLY PRODUCT verage push distance:	0 LCY ne: Division of factor: <u>Cat Handb</u> TION _50 feet	ook	Mining & Safety		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 burce of estimated volur burce of estimated swell OURLY PRODUCT	0 LCY ne: Division of factor: <u>Cat Handb</u> TION _50 feet	ook	Mining & Safety		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volur burce of estimated swell OURLY PRODUCT verage push distance:	0 LCY ne: Division of factor: Cat Handb CION 50 feet ction: 1,400.0 LCY	ook			
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 ource of estimated volur ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly product aterials consistency des	0 LCY ne: Division of factor: Cat Handb CION 50 feet ction: 1,400.0 LCY	ook /hr			
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 ource of estimated volur ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly product	0 LCY ne: Division of factor: Cat Handb TION ction: 50 feet 1,400.0 LCY cription: Compact	ook /hr			
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 ource of estimated volur ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly product aterials consistency des verage push gradient:	0 LCY ne: Division of factor: Cat Handb CION ction: 50 feet 1,400.0 LCY cription: Compact -20 %	ook /hr			
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volur purce of estimated swell OURLY PRODUCT verage push distance: hadjusted hourly product aterials consistency des verage push gradient: verage site altitude:	0 LCY me: Division of factor: Cat Handb FION cription: 50 feet 1,400.0 LCY cription: Compact -20 % 7,800 feet	ook /hr 	ankment 0.9	-	
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volur purce of estimated swell OURLY PRODUCT verage push distance: hadjusted hourly product aterials consistency des verage push gradient: verage site altitude: aterial weight: eight description:	0 LCY me: Division of factor: Cat Handb TION cription: 50 feet 1,400.0 LCY cription: Compact -20 % 7,800 feet 2,900 lbs/LCY Decomposed rock -	ook /hr 	ankment 0.9 % Earth		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 ource of estimated volur ource of estimated swell OURLY PRODUCT verage push distance: nadjusted hourly product aterials consistency des verage push gradient: verage site altitude: aterial weight:	0 LCY me: Division of factor: Cat Handb CION 50 feet ttion: 1,400.0 LCY cription: Compact -20 % 7,800 feet 2,900 lbs/LCY Decomposed rock - Factor	ook /hr ted fill or emba 	ankment 0.9 % Earth <u>Source</u>		
Initial Volume: 500 Swell factor: 1.33 Loose volume: 665 purce of estimated volur purce of estimated swell OURLY PRODUCT verage push distance: hadjusted hourly product aterials consistency des verage push gradient: verage site altitude: aterial weight: eight description: b Condition Correction	0 LCY ne: Division of factor: Cat Handb CION 50 feet ction: 1,400.0 LCY cription: Compact -20 % 7,800 feet 2,900 lbs/LCY Decomposed rock - <u>Factor</u> Skill: 0.75	ook /hr 	ankment 0.9 % Earth		

Visibili	ity: 1.000	(AVG.)
Job efficien	cy: 0.830	(1 SHIFT/DAY)
Spoil p	ile: 0.800	(FND-RF)
Push gradie	ent: 1.426	(CAT HB)
Altitu	de: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade ty	pe: 1.000	(PAT)
Net correction	on: 0.5068	
Adjusted unit production:	709.52 LCY/hr	
Adjusted fleet production:	709.52 LCY/hr	
	· · · · · · · · · · · · · · · · · · ·	

.

zer(s)
9/LCY
-

Total job time:	0.94 Hours	
Total job cost:	\$185.70	

BULLDOZER WORK

Task description:	Spread topsoil on	pit slopes				_
Site: Cotton Creek Pit	Perm	nit Action:	New 110	Permit/Job#:	M2013054	
PROJECT IDENTI	FICATION			-		
Task #: 003	State:	Colorado		Abbreviation:	None	
Date: 9/19/2013		Saguache		Filename:	M054-003	
User: RCO	· _	Q		-	11051 005	
Agency or orga	anization name:	MS				
HOURLY EQUIPM	ENT COST					
Basic Machine: Ca	it D8T - 8SU					
Horsepower: 31						
	mi-Universal	-				
Attachment: NA						
	ber day					
	RG)					
Cost Breakdown:		,				
	<i>Ф</i>ГГГГГГГГГГГГГ		Utilization %			
Ownership Cost/Hour:	\$56.69		NA			
Operating Cost/Hour:	\$104.03		100			
Ripper op. Cost/Hour:	\$0.00		0			
Operator Cost/Hour:	\$37.41		NA			
Total unit Cost/Hour:	\$198.13					
Total Fleet Cost/Hour:	\$198.13	d) (144)				
MATERIAL QUANT	TITIES					
Initial Volume: 881						
Swell factor: 1.12	5	-				
the second se	LCY	-				
		-				
Source of estimated volu			on, Mining & Safety			
Source of estimated swell	factor: Cat Handbo	ook				
HOURLY PRODUCT	TION					
Average push distance:	80 feet					
Unadjusted hourly produce	ction: 984.2 LCY/hr	•				1
Materials consistency des	cription: Partly con	nsolidated s	tockpile 1.1			
· · · · ·				10		
Average push gradient:	-20 %	_				
Average site altitude:	7,800 feet	_				
Material weight:	2,550 lbs/LCY			•)		
Weight description:	Earth - Dry packed					
Job Condition Correction	Factor		Source			
Operator S		0	(AVG.)			
Material consiste			(CAT HB)			
Dozing met			(GEN.)			
5			(GERTI)			

Visibilit	ty:	1.000	(AVG.)
Job efficienc	су:	0.830	(1 SHIFT/DAY)
Spoil pil	le:	0.700	(FND-MF)
Push gradier	nt:	1.426	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weigh	nt:	0.902	(CAT HB)
Blade typ	be:	1.000	(PAT)
Net correctio	n: <u>0</u> .	6165	
Adjusted unit production:	606.70	6 LCY/hr	
Adjusted fleet production:	606.7	6 LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.327/LCY	
Total job time:	1.63 Hours	
Total job cost:	\$323.64	

BULLDOZER RIPPING WORK

	Task description	on: <u>Ri</u> r	pit floor and staging ar	ea		
Sit	e: Cotton Cre	ek Pit	Permit Action:	New 110	Permit/Job#:	M2013054
	PROJECT I	DENTIFICAT	ION			
	Task #: (004	State: Colorado		Abbreviation:	None
		0/19/2013	County: Saguache		Filename:	
	User: H	RCO				
	Agen	cy or organizatio	n name: DRMS			
	HOURLY E	QUIPMENT C	OST			
	Basi	c Machine: Ca	at D8T - 8SU		Horsepower:	310
	Ripper A		Shank Ripper			ber day
						CRG)
	Cost Breakdow	m:				
		<u></u>		[]	Utilization %	
		Ownership C	Cost/Hour: \$63	3.00	NA	
		Operating C		4.03	100	
	Ri	pper Operating C		.53	100	
		Operator C	na mananana ing panganana i	7.41	NA	
		Total Unit C	Cost/Hour: \$21	0.98		
		Total Fleet C	Cost/Hour: \$21	0.98		
	MATERIAL	QUANTITIES	Sele Sele	ected estimating n	nethod: Area	
	Alternate Metho	ods:		-		
Seismic:	NA		Bank Volume:	NA	BCY	NA
Area:		acres	Rip Depth (ft):	1.00	Volume: 4,840	BCY or CCY
		Source of esti	mated quantity: Applic	ation		
			mateu quantity. <u>Applie</u>	ation		
	HOURLY PR	ODUCTION				
	Seismic:					
			Seismic Velocity:	NA	feet/second	
	Area:					
		Avera	ge Ripping Depth:	2.56	mph	
			e Ripping Width:	7.08	degrees	
			e Ripping Length:	300.00	feet	
			age Dozer Speed:	88.00	feet	
			Maneuver Time:	0.25	feet	3•1
		Produc	tion per unit area:	0.800	acres/hour	
	Job Condition C	orrection Factors	3			
	U	nadjusted Hourly	Unit Production:	0.800	Acres/hr	
			Site Altitude:	7,800	feet	
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.83	multiplier	
		Adjusted	Hourly Unit Production:	0.66	Acres/hr	
			Hourly Fleet Production:	0.66	Acres/hr	
	JOB TIME A	ND COST				
	Fleet size:	1	Grader(s)	Total job time:	4.52	Hours
	_	\$217.020				
	Unit cost:	\$317.920	Per acre	Total job cost:	\$954.00	

WHEEL LOADER - LOAD AND CARRY WORK

Task description: Carry topsoil to pi	t floor		
ite: Cotton Creek Pit Permi	t Action: New 110	Permit/Job#	M2013054
PROJECT IDENTIFICATION			
Task #: 005 State:	Colorado	Abbreviation:	None
	Saguache	Filename:	
User: RCO	0		
Agency or organization name: DRM	IS		
HOURLY EQUIPMENT COST			
Basic Machine: CAT 938H	Hora	20110	170
Attachment 1: ROPS Cab		•	172 per day
			CRG)
		(2.(0)
<u>Cost Breakdown:</u>			
Oversenskin Cost/Hours \$21.45	Utilization %		
Ownership Cost/Hour:\$21.45Operating Cost/Hour:\$37.75	NA		
Operator Cost/Hour: \$35.82	100 NA		
Total Unit Cost/Hour: \$95.02	INA		
Total Fleet Cost/Hour: \$95.01			
MATERIAL QUANTITIES			
Initial volume: 1,076		1.000	
Loose volume: 1,076	LCY		
Source of estimated volume:	Division of Reclamation, Mining	& Safety	
Source of estimated swell factor:	Cat Handbook	a bally	
HOURLY PRODUCTION			
HOURLY PRODUCTION			
	cle Time (load, dump, maneuver):	0.483	minutes
	cle Time (load, dump, maneuver) 		the second
Loader Cycle Time: Unadjusted Basic Cy Cycle Time Factors		Factor (min.)	Source
Loader Cycle Time: Unadjusted Basic Cy Cycle Time Factors	ctor not applicable 0.00	Factor (min.) 0.000	Source (Cat HB)
Loader Cycle Time: Unadjusted Basic Cy Cycle Time Factors	ctor not applicable 0.00	Factor (min.)	Source (Cat HB) (Cat HB)
Loader Cycle Time:Unadjusted Basic CyCycle Time FactorsMaterial:No adjustment - faStockpile:Dumped by truckTruck Ownership:No adjustment - faOperation:Constant operation	actor not applicable 0.00 0.02 ctor not applicable 0.00 n -0.04	Factor (min.) 0.000 0.020	Source (Cat HB) (Cat HB) (Cat HB)
Loader Cycle Time: Unadjusted Basic Cy Cycle Time Factors	ictor not applicable 0.00 0.02 ctor not applicable 0.00 1-0.04 0	Factor (min.) 0.000 0.020 0.000	Source (Cat HB) (Cat HB)
Loader Cycle Time: Unadjusted Basic Cy Cycle Time Factors Material: No adjustment - fa Stockpile: Dumped by truck Truck Ownership: No adjustment - fa Operation: Constant operation	actor not applicable 0.00 0.02 ctor not applicable 0.00 n -0.04	Factor (min.) 0.000 0.020 0.000 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)

Rolling Resistance - Road Conditions

	Rutted dirt, little maintenance, no water, 1" tire penetration 4.0	
Return:	Rutted dirt, little maintenance, no water, 1" tire penetration 4.0	

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	300	0.00	4.00	4.00	0.2477	(Cat HB)
Return Route:	300	0.00	4.00	4.00	0.2310	(Cat HB)

			Total Travel Total Cycle		4787 9 412	minutes minutes
Load Bucket Capacity						
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	3.90 1.050 4.10	LCY (hea Other - m LCY		(100-110%) 1	.050	
Job Condition Correction Fa Site Altitude: <u>7800</u> feet	actors					
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HE (1 shift/da multiplier	<u>/</u>			
Adju	usted Hourly Unit P usted Hourly Unit P sted Hourly Fleet Pr	roduction:	261.04 216.67 216.67	LCY/Hour LCY/Hour LCY/Hour	•	
JOB TIME AND COST						
Fleet size: 1	Loader(s)		Total job time:	4.9	7	Hours
Unit cost: \$0.439	/LCY		Total job cost:	\$472	.00	

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BULLDOZER WORK

Task description:	Spread topsoil on p	1001			
e: Cotton Creek Pit	Permit	Action: Ne	ew 110	Permit/Job#:	M2013054
PROJECT IDENTI	FICATION				
Task #: 006	State: C	Colorado		Abbreviation:	None
Date: 9/19/2013		Saguache		Filename:	M054-006
User: RCO					
Agency or org	anization name:	S			
HOURLY EQUIPM	ENT COST				
Basic Machine: C	at D8T - 8SU				
Horsepower: 3					
·	emi-Universal				
Attachment: N					
Shift Basis: 1	per day				
	CRG)				
Cost Breakdown:		Ē	TT::: 0/		
Ownership Cost/Hour:	¢56.60		Utilization %		
Operating Cost/Hour:			NA		
Ripper op. Cost/Hour:			100		
Operator Cost/Hour:	\$0.00		0		
Inergior (Ost/Hour.					
operator costribur.	\$37.41		NA		
			NA		
Total unit Cost/Hour:	\$198.13		NA		
			NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$198.13 \$198.13		NA		
Total unit Cost/Hour:	\$198.13 \$198.13		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$198.13 \$198.13 FITIES		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$198.13 \$198.13 FITIES 76		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>1,0</u> Swell factor: <u>1.00</u>	\$198.13 \$198.13 FITIES 76 00		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0 Swell factor: 1.00 Loose volume: 1,0	\$198.13 \$198.13 FITIES 76 00 76 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R		NA Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0 Swell factor: 1.00 Loose volume: 1,0	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated swel	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R ll factor: Cat Handboo				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R ll factor: Cat Handboo				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated swe HOURLY PRODUCC	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R Il factor: Cat Handboo FION				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0° Swell factor: 1.00 Loose volume: 1,0° Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC	\$198.13 \$198.13 TITIES 76 00 76 LCY me: Division of R Il factor: Cat Handboo TION 50 feet	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated swe HOURLY PRODUCC	\$198.13 \$198.13 TITIES 76 00 76 LCY me: Division of R Il factor: Cat Handbool TION 50 feet	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0° Swell factor: 1.00 Loose volume: 1,0° Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R 11 factor: Cat Handboo TION 50 feet ction: 1,400.0 LCY/hr	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.0' Loose volume: 1,0' Source of estimated volu 5000000000000000000000000000000000000	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R 1 factor: Cat Handbool FION ction: 50 feet 1,400.0 LCY/hr scription: Loose stock	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0 Swell factor: 1.0 Loose volume: 1,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R 11 factor: Cat Handbool FION ction: 50 feet 1,400.0 LCY/hr scription: Loose stock 0 %	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.0' Loose volume: 1,0' Source of estimated volu 5000000000000000000000000000000000000	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R 1 factor: Cat Handbool FION ction: 50 feet 1,400.0 LCY/hr scription: Loose stock	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0 Swell factor: 1.0 Loose volume: 1,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$198.13 \$198.13 FITIES 76 00 76 LCY me: Division of R 11 factor: Cat Handbool FION ction: 50 feet 1,400.0 LCY/hr scription: Loose stock 0 %	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$198.13 \$198.13 TITIES 76 00 76 LCY me: Division of R 11 factor: Cat Handbool TION ction: 1,400.0 LCY/hr scription: Loose stock 0 % 7,800 feet	k			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated swell HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight:	\$198.13 \$198.13 TTTIES 76 00 76 LCY me: Division of R 11 factor: Cat Handbool TION ction: 1,400.0 LCY/hr scription: Loose stock 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed	k	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0' Swell factor: 1.00 Loose volume: 1,0' Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	\$198.13 \$198.13 TTTIES 76 00 76 LCY me: Division of R 11 factor: Cat Handbood TION ction: 50 feet 1,400.0 LCY/hr scription: Loose stock 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed Factor	k	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,0° Swell factor: 1.00 Loose volume: 1,0° Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction	\$198.13 \$198.13 TTTIES 76 CY me: Division of R Oivision of R Cat Handbood TION Scription: Loose stock 0 % 7,800 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.750	k	Mining & Safety		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4717	
Adjusted unit production: 60	50.38 LCY/hr	
Adjusted fleet production: 60	60.38 LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.300/LCY	

Total job time:	1.63 Hours	
Total job cost:	\$322.83	

REVEGETATION WORK

Cotton Creek Pit Perm	it Action: <u>Nev</u>	v 110	Permit/Job#	t:M2013054
PROJECT IDENTIFICATION				
Task #: 007 State:	Colorado		Abbreviation:	None
Date: 9/19/2013 County:	Saguache		Filename:	M054-007
User: RCO				
Agency or organization name:	1S			
FERTILIZING				
Materials				
Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00
Application				
Description				Cost /Acre
				\$
	Total	Fertilizer A	pplication Cost/Acre	\$0.00
TILLING				
Description				Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23				\$98.01
Weed control spraying (MEANS 31 31 16.13 3				\$145.20

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.00	16.32	\$10.65
Crested Wheatgrass - Hy-Crest	3.00	13.77	\$7.17
Russian Wildrye - Bozoisky	2.00	8.03	\$12.48
Yellow Sweet Clover - Madrid	1.00	5.97	\$2.55
Western Wheatgrass - Arriba	5.00	12.63	\$18.40
Totals Seed Mix	12.00	56.73	\$51.25

CIRCES Cost Estimating Software

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

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

NURSERY STOCK PLANTING

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

No. of Acres:	5	Cost /Acre:	\$382.66	
Estimated Failure Rate:	30%	Cost /Acre*:	\$382.66	
*Selected Replanting Work Items:	TILLING, SEEDING			

Initial Job Cost:	\$1,913.30	
Reseeding Job Cost:	\$573.99	
Total Job Cost:	\$2,487.29	
Job Hours:	12.00	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Cotton Creek	Pit	Permit	Action: New 1	110	P	ermit/Job#: _	M2013054
PROJECT IDE	NTIFICAT	TION					
Task #: 008		State: C	olorado		Abb	reviation:	None
Date: 9/19	/2013		aguache				M054-008
User: RCC)						
Agency	or organizatio	n name: DRMS	,				
Agency	or organizatio)				
EQUIPMENT	FR ANSPOL	T PIC COST					
EVUI MENT.		AI MG COSI					
					Shift b		ber day
					Cost Data Sou	urce: CR	G Data
Truck	Tractor Desc	cEN	EDIC ON LICL				
TIUCK	Tractor Dest	Suption. OEN	ENIC ON-HIGF		P (2ND HALF,	OK, 6X4, DIE	ESEL POWERED
					PLUNDHALF	20000	
Traval	Trailar Dese			10011	TOW DROD	, 2000)	
Truck	c Trailer Desc	cription: GENE	ERIC FOLDING	GOOSEN	VECK, DROP I	DECK EQUI	PMENT TRAILE
Truck	c Trailer Desc	cription: GENE	ERIC FOLDING	GOOSEN	NECK, DROP 1 T, 50T, AND 10	DECK EQUI	PMENT TRAILE
Truch	c Trailer Desc	cription: GENE	ERIC FOLDING	GOOSEN	VECK, DROP I	DECK EQUI	PMENT TRAILE
Cost Breakdown:				GOOSEN (257	VECK, DROP 1 7, 50T, AND 10	DECK EQUI	PMENT TRAILE
Cost Breakdown: Available Rig Ca	pacities	0-25 Tons	26-50 Tons	GOOSEN (257	NECK, DROP 1 7, 50T, AND 10 + Tons	DECK EQUI	PMENT TRAILE
Cost Breakdown: Available Rig Caj Ownership	oacities Cost/Hour:	0-25 Tons \$16.63	26-50 Tons \$18.37	GOOSEN (257) 51 \$	NECK, DROP I T, 50T, AND 10 + Tons 522.33	DECK EQUI	PMENT TRAILE
Cost Breakdown: Available Rig Caj Ownership Operating	Dacities Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	GOOSEN (257) 51 \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 522.33 550.07	DECK EQUI	PMENT TRAILE
<u>Cost Breakdown:</u> Available Rig Caj Ownership Operating Operator	Dacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	GOOSEN (257) 51 \$ \$ \$ \$ \$	NECK, DROP 1 7, 50T, AND 10 + Tons 522.33 550.07 527.66	DECK EQUI	PMENT TRAILE
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 522.33 550.07 527.66 525.39	DECK EQUI	PMENT TRAILE
<u>Cost Breakdown:</u> Available Rig Caj Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP 1 7, 50T, AND 10 + Tons 522.33 550.07 527.66	DECK EQUI	PMENT TRAILE
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 522.33 550.07 527.66 525.39	DECK EQUI	PMENT TRAILE
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 522.33 550.07 527.66 525.39	DECK EQUI	PMENT TRAILE
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	GOOSEN (251 51 \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I (7, 50T, AND 10 + Tons (22.33 (50.07 (27.66 (25.39 125.45 (25.45)	DECK EQUI 00T)	
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	GOOSEN (251 (251 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 350.07 27.66 25.39 125.45 Haul Trip	DECK EQUI	p DOT Perm
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	GOOSEN (251 51 \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/	DECK EQUID 00T) Return Tri	p DOT Perm
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS)	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet	Return Tri Cost/hr/ fle	p DOT Pern eet Cost/ fleet
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.08	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$63.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$188.45	Return Tri Cost/hr/ fle \$125.45	p DOT Perm Cost/ fleet \$250.00
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS)	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45 \$88.67	GOOSEN (257 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$188.45 \$110.12	Return Tri Cost/hr/ fle \$125.45 \$88.67	p bot DOT Perm Cost/ fleet \$250.00 \$250.00
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU CAT 938H	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.08 16.34	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$63.00 \$21.45	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45	GOOSEN (257) (257) 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$188.45	Return Tri Cost/hr/ fle \$125.45	p DOT Perm Cost/ fleet \$250.00
Cost Breakdown: Available Rig Caj Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU CAT 938H Drill/Broadcast	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.08 16.34	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$63.00 \$21.45	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45 \$88.67 \$88.67	GOOSEN (257) (257) 51 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	NECK, DROP I T, 50T, AND 10 + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$188.45 \$110.12	Return Tri Cost/hr/ fle \$125.45 \$88.67	p DOT Perm cost/ fleet \$250.00 \$250.00 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	48.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$3,754.53	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.96	0.96
Return Time (Hours):	0.96	0.96
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.92	1.92

JOB TIME AND COST

Total job time:	5.84	Hours

Total job cost: \$3,754.53