

Gibson - DNR, Amber <amber.gibson@state.co.us>

Decision Document, Ghost River Gravel Pit, M-2024-029

1 message

Gibson - DNR, Amber <amber.gibson@state.co.us>

Mon, Dec 2, 2024 at 8:19 AM

To: PFM Consulting <pfmconsultingcompany@gmail.com> Cc: lynsie pye-steele <lynsie1205@hotmail.com>, PowerHouse Excavation & Construction <phexcavationco@gmail.com>

Good morning,

Attached is a copy of the Division's decision document for the 112c permit application submitted for the Ghost River Gravel Pit, file no. M-2024-029. The decision reached by the Division is: **awaiting warranty**.

Included with the decision document is the performance warranty that must be completed and received by the Division prior to permit's issuance. Please go to the following link and select the Financial Warranty Forms drop down list to find the appropriate financial warranty documents: https://drms.colorado.gov/forms/minerals-program-forms. Please contact the Division's Financial Assurance Specialist, Sara Stevenson-Benn at sara.stevenson-benn@state.co.us for submitting financial warranty and performance warranty documents, and for any questions regarding the financial warranty.

Also attached with this email is the reclamation cost estimate agreed upon for only bonding the Phase I portion of the operation at this time.

Notice: The decision document permit table states that the affected acreage is 21.6 acres. This is in reference to the total approved affected acreage over the life of the mine. As a reminder, you have selected to operate as a Phased operation, and upon receipt of the agreed upon financial warranty, the maximum acreage allowed to be affected upon the permit's approval will be 10 acres (Phase I only).

Let me know if you have any questions.

Thank you,

Amber M. Gibson Environmental Protection Specialist I



COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

P 720.836.0967 | F 303.832.8106 | amber.gibson@state.co.us

Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

https://drms.colorado.gov/

2 attachments



Approval awaiting warranty_GhostRiverGravelPit_M2024029.pdf 259K



December 2, 2024

Patrick Steele P B & S Sand and Gravel LLC 8425 Park Road Rye, CO 81069

Re: Ghost River Gravel Pit – File No. M-2024-029 P B & S Sand and Gravel LLC 112c Construction Materials Reclamation Application

Dear Patrick Steele:

On December 2, 2024 the Division of Reclamation, Mining and Safety concluded its review of the Construction Materials Reclamation Permit Application submitted to the Division on June 13, 2024. The decision reached by the Division is: **Awaiting warranty**. The amount of financial warranty set by the Division for this operation is \$28,181.00. 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 will provide you with the applicable form. If you have not, please select a type of financial warranty from Rule 4.3, and then contact us so that we can provide you with the appropriate warranty form. 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 AFTER RECEIPT OF YOUR FINANCIAL AND PERFORMANCE WARRANTIES. A PERMIT CANNOT BE ISSUED UNTIL WE HAVE VERIFIED THE ADEQUACY OF YOUR FINANCIAL AND PERFORMANCE WARRANTIES.

M-2024-029: Approved Surety a	and Acreage
Reclamation Liability (Required Surety):	\$28,181.00
Approved Permit Acreage:	21.60
Approved Affected Acreage:	21.60

If you have any questions, please contact me by telephone at (720) 836-0967, or by email at amber.gibson@state.co.us

Sincerely,



Anbox boon

Amber M. Gibson Environmental Protection Specialist

cc: Jordan Power Jodi Schreiber



PERFORMANCE WARRANTY

Permittee/Operator:

Operation known as:

Permit Number:

This form is approved by the Colorado Mined Land Reclamation Board ("Board") pursuant to C.R.S. 34-32-117 of the Colorado Mined Land Reclamation Act and C.R.S. 34-32.5-117 of the Colorado Land Reclamation Act for the Extraction of Construction Materials.

All parties are on Notice from this Document that:

The above listed Operator provides this warranty to the Board in conjunction with a reclamation Permit to conduct the above described mining operation on certain lands in Colorado. The "Affected Lands" are described in the above listed reclamation Permit, and include any Permit Amendment(s) approved by the Division of Reclamation Mining and Safety ("Division").

The Colorado Mined Land Reclamation Act, C.R.S. 34-32-101 *et seq.* ("Hard Rock Act"), and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. 34-32.5-101 *et seq.* ("Construction Materials Act"), both require a permit issued by the Board to include a written promise by the Operator to comply with all requirements of the Hard Rock and Construction Materials Acts (referred to herein together as "Acts").

Through the terms and conditions of this performance warranty and Permit, the Operator agrees to be bound by all requirements of the Acts and all Mineral Rules and Regulations of the Board for Hard Rock, Metal, and Designated Mining Operations (2 C.C.R. 407-1) and all Mineral Rules and Regulations of the Board for the Extraction of Construction Materials (2 C.C.R. 407-4) (referred to herein together as "Rules").

The Operator hereby provides the Board warranties of performance pursuant to C.R.S. 34-32-117(2), (3), and (4)/C.R.S. 34-32.5-117(2), (3), and (4), and promises the Board it will comply with all applicable requirements of the Acts and Rules.

The Operator hereby promises the Board it will comply with all of the terms of the reclamation Permit, including any Permit Amendment(s) approved by the Division. This performance warranty obligation of the Operator shall continue until the Operator's liability is released by the Board.

The Operator promises to be responsible for reclamation costs up to the amount established by the Board and incorporates its financial warranty to this performance warranty. The Operator agrees to maintain a financial warranty (or warranties) in good standing for the reclamation costs for the entire life of the



Permit. The amount of the financial warranty shall be sufficient to assure the completion of reclamation of affected lands if the Division has to complete such reclamation due to forfeiture. If the Board determines the Operator is in default under this performance warranty and the Operator fails to cure such default, the Operator's financial warranty shall be subject to forfeiture pursuant to C.R.S. 34-32-118/34-32.5-118.

This performance warranty by the Operator is perpetual and shall remain in full force and effect until all obligations have been met and all associated financial warranty is released by the Board. Any release of liability in a succession of Operators shall comply with C.R.S. 34-32-119/34-32.5-119.

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		_, 20
	Operator:		
	Signature:		
	Name:		
	Title:		
NOTARIZATION O	F OPERATOR'S ACKNO	OWLEDGEMENT	
STATE OF)			
) ss.) ss.			
The foregoing instrument was acknowledged	before me thisda	y of	
by	(Day)	(Month)	(Year)
(Name)		(Title)	
(Operator)			
	NOTARY PUBI	LIC	
	My Commission	expires:	
APPROVED: State of Colorado Mined Land Reclamation Board Division of Reclamation, Mining and Safety			
Ву:	Date:		_
Division Director			

Rev. 7-2018

COST SUMMARY WORK

Task description: Recla		Reclamation	Cost Summary	for Max Disturbanc	e - Phase I only			
Site:	Site: Ghost River Gravel Pit		Permit Action: New Application		Permit/Jol	o#: <u>M2024029</u>		
<u>P</u>]	ROJECT	IDENTIFIC 000	ATION Stat	te: Colorado		Abbreviation:	None	
	Date:	11/26/2024 AMG	Count	y: Huerfano		Filename:	M029-000	
	Age	ency or organiz	ation name:	DRMS				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwalls to a 3H:1V	DOZER	1	4.37	\$956
002	Spread gravel in 2.1 acre gravel area	DOZER	1	1.45	\$301
003	Spread topsoil in Phase I Area (7 acres total)	DOZER	1	6.94	\$1,514
004	Phase I Re-veg, 3 ac Rangleand Area & 4 ac Residential	REVEGE	1	7.00	\$14,122
005	Mob/Demob	MOBILIZE	1	5.22	\$4,691
		<u>SUBT</u>	DTALS:	24.98	\$21,584

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$436
Performance bond:	1.05	Total =	\$227
Job superintendent:	11.76	Total =	\$932
Profit:	10.00	Total =	\$2,158
		TOTAL O & P =	\$3,753
		CONTRACT AMOUNT (direct + O & P) =	\$25,337

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 4.25 5.00	Total = Total =	\$500 \$1,077 \$1,267
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$6,597
TOTAL BO	ND AMOUNT (di	irect + indirect) =	\$28,181

BULLDOZER WORK

Task description:	Grade Highwalls	de Highwalls to a 3H:1V				
Ghost River Gravel	Pit Per	mit Action:	New Application	Permit/Job#:	M2024029	
PROJECT IDENTII	FICATION					
Task #: 001 Date: 11/14/202 User: AMG	State:	Colorado Huerfano		Abbreviation: Filename:	None M029-001	
Agency or org	anization name:	RMS				
HOURLY EQUIPM	ENT COST					
Horsepower: 24		II				
• 1	emi-Universal shank ripper					
	per day					
	CRG)					
Cost Breakdown:		1				
Ownership Cost/Hour:		\$90.24	<u>Utilization %</u> NA			
Operating Cost/Hour:		\$78.95	100			
Ripper own. Cost/Hour:		\$9.25	NA			
Ripper op. Cost/Hour:		\$1.56	30			
Operator Cost/Hour:		\$38.59	NA			
Initial Volume: <u>1,9</u> Swell factor: <u>1.1</u>	24					
Loose volume: <u>2,1</u>	94 LCY					
Source of estimated volu Source of estimated swe		Ũ	vall dimensions, cut-fill r	nethod		
HOURLY PRODUC	CTION					
Average push distance: Unadjusted hourly prod	50 feet uction: 1,022.9 LC	Y/hr				
Materials consistency de	escription: <u>Compa</u>	cted fill or e	mbankment 0.9			
Average push gradient: Average site altitude:	-5 % 5,674 feet					
Material weight:	2,900 lbs/LCY					
Weight description:	Sand and gravel -	Dry				
Job Condition Correctio			Source			
Operator		750	(AVG.)			
Material consis		900 100	(CAT HB))			
Dozing m Vis		000	(50% SL) (AVG.)			
V 15.	10111ty. <u>1</u> .	000	(Av0.)			

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.900	(SSD-FC)
Push gradie	nt: 1.115	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade ty	be: 1.000	(PAT)
Net correction	on: 0.4904	
Adjusted unit production:	501.63 LCY/hr	
Adjusted fleet production:	501.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.436/LCY

Total job time:	4.37 Hours
Total job cost:	\$956

BULLDOZER WORK

Task description	1:	-	Spread	gravel in	1 2.1 acre gra	ivel area			
Ghost River	Grav	el Pit		Per	mit Action:	New Application		Permit/Job#:	M2024029
PROJECT II	DENT	TIFIC		N					
)2			<u> </u>	Colorado		٨٢	breviation:	None
Date: 1	/26/2 MG	024		County:	Huerfano		AU	Filename:	M029-002
Agenc	y or o	organiz	zation na	me: DI	RMS				
HOURLY EC	OUIP	MEN	T COS	<u>T</u>					
Basic Machi	_		7R DS 2	XR Series	II				
Horsepow Blade Ty		240 Semi	-Univers	al					
Attachme		NA		ui					
Shift Bas		1 per	day						
Data Sour	ce:	(ĈRC	й)						
Cost Breakdow	ı.								
<u>2001 Dicurdow</u>	<u>-</u> '					Utilization	%		
Ownership Co	st/Ho	ur:			\$90.24	NA			
Operating Co					\$78.95	100			
Ripper own. Co					\$0.00	NA			
Ripper op. Co					\$0.00	0			
Operator C-	/TT				¢20 50	NA			
Operator Co Total unit Cost/ Total Fleet Cos	Hour: /Hou		\$207.78 \$207.78		\$38.59				
Total unit Cost/	Hour: /Hour QUA e: <u></u>		\$207.78						
Total unit Cost/ Total Fleet Cost <u>MATERIAL</u> Initial Volum	Hour: /Hour QUA e: <u></u> r: <u></u>	::	<u>\$207.78</u> <u>FIES</u>		538.39				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto	Hour: /Hour QUA e: <u>8</u> r: <u>1</u> e: <u>8</u>		\$207.78 <u>FIES</u> CY						
Total unit Cost/ Total Fleet Cost <u>MATERIAL</u> Initial Volum Swell facto Loose volum	Hour: /Hour QUA e: <u>8</u> r: <u>1</u> e: <u>8</u> ated v		\$207.78 <u>FIES</u> <u>CY</u> 		 leep across 2				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim	Hour: /Hour QUA e: <u>8</u> r: <u>1</u> e: <u>8</u> ated v ated s		\$207.78 <u>ГIES</u> <u><u></u></u> <u><u></u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	3 inches c	 leep across 2				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim	Hour: /Hour QUA e: <u>8</u> r: <u>1</u> e: <u>8</u> ated v ated s		\$207.78 <u>ГIES</u> <u><u></u></u> <u><u></u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	3 inches c	 leep across 2				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d	Hour: /Hour QUA e: <u>6</u> e: <u>8</u> ated v ated v ated s CODU istanc		\$207.78 <u>FIES</u> <u>CY</u> e: actor: _ <u>ON</u> _5	3inches c Cat Hanc 0 feet	leep across 2 lbook				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim	Hour: /Hour QUA e: <u>6</u> e: <u>8</u> ated v ated v ated s CODU istanc		\$207.78 <u>FIES</u> <u>CY</u> e: actor: _ <u>ON</u> _5	3inches c Cat Hanc	leep across 2 lbook				
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d	Hour: /Hour QUA e: e: ated v ated s ated s CODU istanc rly pro		\$207.78 <u>FIES</u> <u>CY</u> actor: _ <u>ON</u> on: _1	3 inches c Cat Hanc 0 feet 022.9 LC	leep across 2 lbook	1 acres			
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou	Hour: /Hour QUA e: e: ated v ated v ated s CODU istanc rly pro- stency		\$207.78 FIES CY e: actor: ON on:1 iption: -5 %	3inches c Cat Hanc 0 feet 022.9 LC Partly	leep across 2 lbook	1 acres			
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Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou Materials consist	Hour: /Hour QUA e: <u>8</u> e: <u>8</u> ated v ated v ated s CODU istanc rly pro- stency radien itude:		\$207.78 FIES CY e: actor: ON on:1 iption: -5 %	3inches c Cat Hanc 0 feet 022.9 LC Partly et	leep across 2 lbook	1 acres			
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PH Average push d Unadjusted hou Materials consist Average push g Average site alt	Hour: /Hour QUA e: <u>1</u> e: <u>1</u> e: <u>1</u> e: <u>1</u> ated v ated v ate		\$207.78 FIES CY e: actor: ON on: iption: 5,674 fe	3 inches c Cat Hanc 0 feet 022.9 LC Partly et s/LCY	leep across 2 lbook	1 acres			
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou Materials consist Average push g Average site alt Material weight Weight descript Job Condition C	Hour: /Hour QUA e: <u>6</u> e: <u>1</u> e: <u>1</u> e: <u>1</u> ated v ated v atency		\$207.78 FIES CY e: actor: ON on: on: on: on: _	3 inches c Cat Hanc 0 feet 022.9 LC Partly et s/LCY	leep across 2 lbook	 1 acres stockpile 1.1			
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou Materials consist Average push g Average site alt Material weight Weight descript Job Condition C	Hour: /Hour QUA e: <u>6</u> e: <u>1</u> e: <u>1</u> e: <u>1</u> ated v ated v atency ate		\$207.78 FIES CY e: actor: ON on: on: on: on: on: on: on: _	3 inches c Cat Hanc 0 feet 022.9 LC Partly et s/LCY Dry 0	 deep across 2 lbook Y/hr consolidated 	1 acres 1 acres stockpile 1.1 Sour (AVC	G.)		
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou Materials consist Average push g Average site alt Material weight Weight descript Job Condition C	Hour: /Hour QUA e: <u>8</u> e: <u>8</u> ated v ated v atency atency atency atence ated v atency atence ate		\$207.78 FIES CY actor: actor: ON on: on: on: on: on: _	3inches c Cat Hanc 0 feet 022.9 LC Partly et s/LCY Dry 0 1	 deep across 2 lbook 'Y/hr consolidated .750 .100	1 acres 1 acres stockpile 1.1 <u>Sour</u> (AVC	G.) HB)		
Total unit Cost/ Total Fleet Cost MATERIAL Initial Volum Swell facto Loose volum Source of estim Source of estim HOURLY PF Average push d Unadjusted hou Materials consist Average push g Average site alt Material weight Weight descript Job Condition C	Hour: /Hour /Hour QUA : : : : : : : : : : : : :		\$207.78 FIES CY e: actor: ON 5,674 fe 2,550 lb Gravel - actor cill: cy: od:	3inches c Cat Hanc 0 feet 022.9 LC Partly et s/LCY Dry 0 1 1	 deep across 2 lbook Y/hr consolidated 	1 acres 1 acres stockpile 1.1 Sour (AVC	G.) HB) SL)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6060	
Adjusted unit production: 61	19.88 LCY/hr	
Adjusted fleet production: 6	19.88 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.335/LCY

Total job time:	1.45 Hours
Total job cost:	\$301

BULLDOZER WORK

Task description: Sp	oread topsoil in Phase I	filea (7 acres total)		
Ghost River Gravel Pit	Permit Action	n: New Application	Permit/Job#:	M2024029
PROJECT IDENTIFICAT	ΓΙΟΝ			
Task #: 003	State: Colorad	lo	Abbreviation:	None
Date: $11/26/2024$	County: Huerfar		Filename:	M029-003
User: AMG	County			1022-003
Agency or organization	on name: DRMS			
HOURLY EQUIPMENT	COST			
	DS XR Series II			
Horsepower: 240				
Blade Type: Semi-Un	iversal			
Attachment: 3-shank				
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:		TT:11 .1 0/		
	ф <u>о</u> с с	<u>Utilization %</u>		
Ownership Cost/Hour:	\$90.24			
Operating Cost/Hour:	\$78.9			
Ripper own. Cost/Hour:	\$9.2			
Ripper op. Cost/Hour:	\$1.04			
Operator Cost/Hour:	\$38.59			
Fotal unit Cost/Hour: \$2 Fotal Fleet Cost/Hour: \$2	18.07 1 8.07	9 NA		
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE	18.07 1 8.07	2 NA		
Total unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647	18.07 1 8.07	2 NA		
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215	18.07 18.07 <u>ES</u>	2 NA		
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC	18.07 18.07 ES Y			
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume:	18.07 18.07 <u>ES</u> <u>Y</u> 4 acres around strue	ctures for resid., 3 acres of	frangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC	18.07 18.07 <u>ES</u> <u>Y</u> 4 acres around strue		frangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor	18.07 18.07 2 S Y 4 acres around strue or: Cat Handbook		f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LCY Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION	18.07 18.07 28 Y Y 4 acres around strue or: Cat Handbook		frangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance:	18.07 18.07 2S Y 4 acres around strue Cat Handbook <u>18.07</u> 360 feet		frangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LCY Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION	18.07 18.07 2S Y 4 acres around strue Cat Handbook <u>18.07</u> 360 feet		frangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance:	18.07 18.07 25 Y 4 acres around strue or: 4 acres around strue Cat Handbook 1 360 feet NA LCY/hr	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description	18.07 18.07 18.07 ES Y Y 4 acres around strue Cat Handbook N 360 feet NA LCY/hr fon:Partly consolidat	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description	18.07 18.07 18.07 18.07 25 Y 4 acres around strue Y Cat Handbook N 360 feet NA LCY/hr ion: Partly consolidat %	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC' Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description	18.07 18.07 18.07 ES Y Y 4 acres around strue Cat Handbook N 360 feet NA LCY/hr fon:Partly consolidat	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average push gradient:	18.07 18.07 18.07 18.07 25 Y 4 acres around strue Y Cat Handbook N 360 feet NA LCY/hr ion: Partly consolidat %	ctures for resid., 3 acres of	f rangeland	
Total unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average site altitude: 5,6 Material weight: 1,6	18.07 18.07 18.07 18.07 18.07 25 Y 9 260 feet NA LCY/hr ion: Partly consolidat % 74 feet	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Total Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average site altitude: 5,6 Material weight: 1,6 Weight description: Top	18.07 18.07 18.07 18.07 18.07 25 Y 9 260 feet NA LCY/hr ion: Partly consolidat % 74 feet 00 lbs/LCY p Soil	ctures for resid., 3 acres of	f rangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average site altitude: 5,6 Material weight: 1,6 Weight description: Top Iob Condition Correction Factor	18.07 18.07 18.07 18.07 2S Y 4 acres around structure Cat Handbook 1 360 feet NA LCY/hr ion: Partly consolidat % 74 feet 00 lbs/LCY p Soil or	ctures for resid., 3 acres of ed stockpile 1.1	f rangeland	
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average site altitude: 5,6 Material weight: 1,6 Weight description: To Iob Condition Correction Factor Operator Skill:	$ \begin{array}{r} 18.07 \\ \hline 18.07 \\ $	ctures for resid., 3 acres of ed stockpile 1.1		
Fotal unit Cost/Hour: \$21 Fotal Fleet Cost/Hour: \$21 MATERIAL QUANTITIE Initial Volume: 5,647 Swell factor: 1.215 Loose volume: 6,861 LC Source of estimated volume: Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descripti Average site altitude: 5,6 Material weight: 1,6 Weight description: Top Iob Condition Correction Factor	$ \begin{array}{r} 18.07 \\ \hline 18.07 \\ $	ctures for resid., 3 acres of ed stockpile 1.1		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9662	
Adjusted unit production: 9	988.33 LCY/hr	
Adjusted fleet production: 9	988.33 LCY/hr	
· · ·		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.221/LCY
01111 0000	\$0.2211 2 0 1

Total job time:	6.94 Hours
Total job cost:	\$1,514

REVEGETATION WORK

Task descri	ption:	Phase I Re-veg, 3 ac Rangleand Area & 4 ac Residential			Phase I Re-veg, 3 ac Rangleand Area & 4 ac Re		
ite: <u>Ghost R</u>	iver Gravel Pit	Permit Action:	New Application	Permit/Jo	b#: <u>M2024029</u>		
PROJECT	IDENTIFIC	ATION					
Task #:		State: Colorado		Abbreviation:	None		
Date: User:	11/26/2024 AMG	County: <u>Huerfano</u>		Filename:	M029-004		

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	1.20	19.59	\$25.59
Sand Dropseed	0.10	11.94	\$1.30
Galleta	1.60	5.84	\$88.70
Western Wheatgrass - Arriba	16.00	40.40	\$144.54
Winter Fat	0.10	0.25	\$4.67
Totals Seed Mix	19.00	78.02	\$264.80

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$272.56
	Total Seed Application Cost/Acre	\$272.56

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25

Total Mulch Application Cost/Acre\$242.63

	No. of Acres:	7	Cost /Acre:	\$1,883.16
Estimated Failure Rate:		25%	Cost /Acre*:	\$537.36
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$13,182.12			
Reseeding Job Cost:	\$940.38			
Total Job Cost:	\$14,122			
Job Hours:	7.00		_	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	IVIO	b/Demob					
Ghost River G	ravel Pit	Permit	Action: <u>New</u>	Applicatio	on .	Permit/Job#: <u>M</u>	2024029
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 005		State: Co	olorado		Abbre	eviation: None	
Date: 11/2 User: AM	26/2024 G	County: Hu	ierfano		Fi	ilename: M029	0-005
Agency o	r organization	name: DRMS					
EQUIPMENT T	RANSPOR'	T RIG COST					
					Shift ba Cost Data Sou		
T 1	т (р	· · · · · · · · · · · · · · · · · · ·					
Iruck	Tractor Descr	ription: GENE	RIC ON-HIGH		OCK TRACIC (2ND HALF,	OR, 6X4, DIESEL 2006)	L POWERED,
					(21, 2, 11, 121,		
Truck	Trailer Desci	ription: G	ENERIC FOLD	ING GOO	DSENECK. DE		IPMENT
Truck	Trailer Desci	ription: G			DSENECK, DF (25T, 50T, A)	ROP DECK EQU	IPMENT
	Trailer Desci	ription: G				ROP DECK EQU	IPMENT
Cost Breakdown:				<u>FRAILER</u>	(25T, 50T, A)	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca	pacities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, A) + Tons	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership	pacities Cost/Hour:	0-25 Tons \$10.44	26-50 Tons \$22.18	<u>FRAILER</u> 51- \$	(25T, 50T, A) + Tons 23.94	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating	pacities Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48	26-50 Tons \$22.18 \$54.55	<u>FRAILER</u> 51- \$ \$	(25T, 50T, A) + Tons 23.94 55.65	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	pacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52	26-50 Tons \$22.18 \$54.55 \$22.52	TRAILER 51- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	pacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52	26-50 Tons \$22.18 \$54.55 \$22.52	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53	ROP DECK EQU	IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53	ROP DECK EQU	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 IENT:	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 25.64	ROP DECK EQU ND 100T)	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine Description	Description Descr	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 1ENT: Owner ship Cost/hr/ unit	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni t	TRAILER 51 \$ <td>(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/ fleet</td> <td>ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet</td> <td>DOT Permit Cost/ fleet</td>	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine Description Cat D7R DS XR Series II	Description Descr	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 IENT: Owner ship	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni	TRAILER 51 \$ <td>(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/</td> <td>ROP DECK EQU</td> <td>DOT Permit</td>	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/	ROP DECK EQU	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine Description Cat D7R DS XR Series II Drill/Broadcast Seeder with	Description Descr	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 1ENT: Owner ship Cost/hr/ unit	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni t	Fleet Size	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADABI Machine Description Cat D7R DS XR Series II Drill/Broadcast	Description Descr	0-25 Tons \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 1ENT: Owner ship Cost/hr/ unit \$99.49	26-50 Tons \$22.18 \$54.55 \$22.52 \$23.53 \$122.78 Haul Rig Cost/hr/uni t \$122.78	S \$ <t< td=""><td>(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/ fleet \$222.27</td><td>ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$122.78</td><td>DOT Permit Cost/ fleet \$250.00</td></t<>	(25T, 50T, A) + Tons 23.94 55.65 22.52 23.53 125.64 Haul Trip Cost/hr/ fleet \$222.27	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$122.78	DOT Permit Cost/ fleet \$250.00

Subtotals: \$509.84 \$301.10 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip Cost/hr/ fleet
	unit		Cost/hr/ fleet	Cost III/ Heet
Fuel Tanker, 4x2, 170 HP	\$55.22	1	\$55.22	\$55.22
Water Tanker, 2,500 Gal.	\$55.22	1	\$55.22	\$55.22
Light Duty Pickup, 4x4, 3/4 T.	\$119.71	1	\$119.71	\$119.71
			*** **	***
		Subtotals:	\$230.15	\$230.15

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	PUEBLO 35.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$4,398.48	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$292.92	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours): Loading Time (Hours):	Non- Roadable Equipment 0.64 0.64 0.67	Roadable Equipment 0.64 0.64 NA
Unloading Time (Hours):	0.67	NA
Subtotals:	2.61	1.27

JOB TIME AND COST

Total job time: **5.23** Hours

Total job cost: \$4,691