

Ridley - DNR, Hunter < hunter.ridley@state.co.us>

Inspection Report, McCoy Pit, M-1981-088

1 message

Ridley - DNR, Hunter < hunter.ridley@state.co.us>

Tue, Jul 11, 2023 at 7:50 AM

To: brattonent@gmail.com

Travis and Stephanie Bratton Pinnt,

Please find attached the Division's report on the McCoy Pit (M-1981-088) from the inspection on June 27, 2023. Please let me know if you have any questions or concerns.

Kind regards, Hunter Ridley Environmental Protection Specialist



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

P 720.868.7757 | F 303.832.8106 Physical: 1313 Sherman Street, Room 215, Denver, CO 80203 Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 hunter.ridley@state.co.us | https://drms.colorado.gov



InspReport_Mccoy.pdf 6569K



MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: McCoy Pit		MINE/PROSPECTING ID#: M-1981-088	MINERAL: Volcanic materials (ash, cinders)	COUNTY: Routt
INSPECTION TYPE: Monitoring		WEATHER: Clear	INSP. DATE: June 27, 2023	INSP. TIME: 11:00
OPERATOR: Bratton Enterprises, Inc.		OPERATOR REPRESENTATIVE: Ben Bratton	TYPE OF OPERATION112c - Construction	
REASON FOR INSPECTION: Normal I&E Program		BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$208,944.00	
DATE OF COMPLAINT: NA		POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Hunter Ridley	INSPECTOR'S SIGNATURE:		SIGNATURE DAT July 11, 2023	Е:

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Revegetation

PROBLEM/POSSIBLE VIOLATION: Problem: There are state-listed noxious weeds present on site. This is a problem for failure to employ weed control methods for state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10 (6) of the rule. **CORRECTIVE ACTIONS:** Implement approved weed control plan and provide proof to the Division that this has been done.

CORRECTIVE ACTION DUE DATE: 9/11/23

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: Problem: The current mine plan map needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI). The operator must provide sufficient information to identify the updated lease ownership.

CORRECTIVE ACTIONS: The operator shall submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved mine plan map to reflect the update to lease ownership by the corrective action date.

CORRECTIVE ACTION DUE DATE: 10/10/23

OBSERVATIONS

The McCoy Pit was inspected as part of the Colorado Division of Reclamation, Mining and Safety (Division) normal monitoring program. McCoy Pit is a 112c operation which is permitted for 73.7 acres. It is located approximately 4 miles northeast of McCoy, Colorado and is accessed from Routt County Road 4a. The McCoy Pit mines black and red volcanic rock from atop a cinder cone volcano (Photo 1). Ben Bratton represented Travis and Stephanie Bratton as the operators of Bratton Enterprises, Inc. and accompanied Hunter Ridley of the Division on the inspection.

Affected area boundary markers and the mine identification sign are both in place (Photo 2). Permit boundaries are marked by t-posts.

A load scale and railroad tracks are located at the entrance to the pit. Fuel is stored to the south near the entrance in secondary containment along with an office trailer. In a follow up call post inspection, the Operator stated that the railroad tracks located at the site entrance to the southeast as well as to the northeast had been removed. Material stockpiles are kept near the office area (Photos 16 and 17). There is no discernable pattern of mining, but currently active mining is occurring in the northern portion of the pit (Photos 11 -13). Market demands shape where material is mined from at the site. NO erosional issues were noted in this area or any other areas of the pit. Two screeners are kept onsite to sort materials into four sizes (Photo 14 and 15). Uses range from decorative rock to grading of roads.

Reclamation of the site consists of filling in mined areas and reshaping the slopes of the cinder cone back to their approximate original contours. No topsoil in its usual form is present on this size given its geology. However, overburden piles located at the site are readily growing volunteer vegetation (Photos 3 and 4). The Operator representative stated that Routt County sprays for weeds at the site in July. Noxious weeds such as thistle were noted to be present at the site (Photo 5). This is cited a problem for failure to employ weed control methods for state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10 (6) of the rule. A weed control plan was approved in 2015 under TR1. The Operator is encouraged to reference this when treating weeds at the site. Fine cinders from the site, not suitable for sale, will be used in conjunction with overburden to create final reclaimed slopes. These slopes will be seeded for reclamation as usual. Fine cinders, overburden, and material stockpiles are located all around the site (Photos 6-10). Fine cinder and material stockpiles piles are indiscernible from one another unless specified by the operator.

The previous inspection report, dated August 6, 2015 noted that approximately 1.7 acres of area to the southwest of the permit boundary had been partially reclaimed. However, the Operator did not have legal right of entry in 2015 to complete reclamation due to an ongoing litigation with the landowner, the State Land Board, and the Operator. During a follow up call with the Operator, post inspection in 2023, an update on the litigation was submitted to the Division. This letter is attached to this inspection report. As of the date of this inspection, the litigation has been resolved and Bratton Enterprises, Inc. now retains legal right of entry for its entire permitted acreage. In response to this change of land lease/ownership, the Division requests that an update be made to the Mining Plan Map submitted in 2004 which outlines the various leases of the site. For tracking purposes, this has been cited as a problem. Please submit a Technical Revision (TR) to the Division by the corrective action due date which updates the lease ownership shown on the mine plan map. As part of this TR, please also update Exhibit B-1 'Property, Mineral Interest, and Easement Owners within 200 feet' if this information has changed post litigation.

The Division currently holds a financial warranty amount of \$208,944.00 for this site. The bond was last updated post inspection in 2015. In an effort to ensure the Financial Warranty adequately reflects the actual

current cost of fulfilling the requirements of the approved reclamation plan, the Division has updated the reclamation cost estimate. The Division has found the current bond to be **inadequate** for reclamation of the site. The updated required bond amount is \$433,290.00. This is an **increase of \$224,346.00**. A copy of staff calculations has been attached with this report. A notice of surety increase will be sent under separate cover.

Photographs taken during the inspection have been included below. Responses to this inspection report should be directed to: Hunter Ridley at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 720-868-7757 or via email at hunter.ridley@state.co.us

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY Y	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP <u>N</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

PHOTOGRAPHS



Photo 1: View northwest of the entire pit area, volcanic rock is mined from the remnants of a cinder cone volcano.



Photo 2: Appropriate signage is located at the mine entrance, a scale, scale house, and office are seen in the background.



Photo 3: View south of the eastern side of the pit where mainly overburden is stored, taken from the upper road



Photo 4: View north of stockpiled overburden, volunteer vegetation occupies most of the pile



Photo 5: State listed noxious weeds are present onsite.



Photo 6: Various stockpiles and excess fine cinder, non-saleable material located in the northeast corner of the pit



Photo 7: Material stockpiles



Photo 8: Material stockpiles



Photo 9: A mix of fine cinders and overburden materials stockpiled in the northeastern corner of the pit, volunteer vegetation grows on overburden material.



Figure 10: View west of the volcanic crater and various stockpiles, this area is being backfilled contemporaneously as mining progresses.



Photo 11: View north of the pit's active mining area. The permit boundary sits on the other side of the highwall crest.



Photo 12: View east into the main mining pit, an old rail line which extends around the pit has been exhumed during mining.



Photo 13: Road down into the active mining area, overburden material is stockpiled along the northern pit edge.



Photo 14: Two screeners are kept onsite to sort material into four different sizes.



Photo 15: Additional onsite screener.



Photo 16: View east of stockpiled material located in the northwestern, flattened corner of the pit.

PERMIT #: M-1981-088 INSPECTOR'S INITIALS: HR1 INSPECTION DATE: June 27, 2023



Photo 17: View north of previously mined area, fuel is stored here in secondary containment. Volunteer vegetation is growing atop the layer of overburden.

Inspection Contact Address Travis / Stephanie Bratton Pinnt Bratton Enterprises, Inc. Po Box 43 Yampa, CO 80483

CC: Michael Cunningham, DRMS

COST SUMMARY WORK

Т	ask descrip	otion:	Updated post inspection 6/27/2023					
Site:	McCoy P	'it	P	ermit Action:	Inspection 06/2023	Permit/Job	o#: M1981088	
<u>PI</u>		IDENTIFIC HCR 7/5/2023 HR1	CATION State: County:			Abbreviation: Filename:	None M088-HCR	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/removal of onsite structures and equipment	DEMOLISH	1	48.00	\$71,927
02a	Slope reduction to 3H:1V	DOZER	2	53.06	\$45,275
03a	Rip compated areas	RIPPER	1	39.68	\$17,968
04a	Placement of topsoil/overburden	LOADER	2	42.12	\$13,035
05a	Spread topsoil/overburden	DOZER	2	29.83	\$25,449
06a	Revegetate affected area	REVEGE	1	60.00	\$164,566
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$8,265
08a	Secondary mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$1,076
<u>SUBTOTALS:</u> 284.69 \$347,561					

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$7,021
Performance bond:	1.05	Total =	\$3,649
Job superintendent:	142.34	Total =	\$9,263
Profit:	10.00	Total =	\$34,756
		TOTAL O & P =	\$54,690
		CONTRACT AMOUNT (direct + O & P) = $($	\$402,251

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$20,113
CONTINGENCY:	3.00	Total =	\$10,427
	TOTAL	INDIRECT COST =	\$85,729
TOTAL BO	\$433,290		

DEMOLITION WORK

,	Task description:	Demo/remo	oval of onsite str	uctures and equipme	ent	
Site:	McCoy Pit		Permit Action:	Inspection 06/2023	Permit/.	Job#: <u>M1981088</u>
<u>PROJE</u>	CT IDENTIFICATION	I				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	7/5/2023	County:	Routt		Filename:	01a
User:	HR1					
	Agency or organizat	ion name:	DRMS			

UNIT COSTS

Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office building and shed	30'x8'x8'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 30 mile haul	1,920.00	CF	\$0.46	\$881.66
Removal of railroad spur	4,800'	Railroad track - Ties and track	4,800.00	LF	\$15.60	\$74,880.00
Scale	20'x40'	Loading and 5 mile haul, salvage allowed - Steel frame structures	11.70	CY	\$12.50	\$146.25
Scale house	10' x 20' x 10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push	2,000.00	CF	\$0.24	\$470.60
Scale and Scale house concrete	2 bldg	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 200 ft. push	160.00	LF	\$15.01	\$2,402.18

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	48.00	(unadjusted):	\$78,780.69	location):	\$71,926.77

BULLDOZER WORK

Task description:	Slope reduction	to 3H:1V			
McCoy Pit	Per	mit Action:	Inspection 06/2023	Permit/Job#:	M1981088
PROJECT IDENTIF	ICATION				
Task #: 02A Date: 7/5/2023 User: HR1	State: County:	Colorado Routt		Abbreviation: Filename:	None 02a
Agency or orga	nization name: DR	RMS			
HOURLY EQUIPMI	ENT COST				
	t D8T - 8SU				
Horsepower: 310					
VI	mi-Universal				
Attachment: NA					
	er day RG)				
	KO)				
Cost Breakdown:			.		
		¢0.41.20	<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100 NA		
Ripper own. Cost/Hour:		\$0.00 \$0.00	NA 0		
Ripper op. Cost/Hour:					
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$426.60 \$853.20	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25	\$853.20 <u>FITIES</u> ,083 55				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25	\$853.20 <u>FITIES</u> .083				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu	\$853.20 FITIES ,083 55 ,489 LCY me:Attached				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated swel	\$853.20 EITIES ,083 55 ,489 LCY me: Attached 1 factor: N/A				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated swel HOURLY PRODUC	\$853.20 FITIES ,083 55 ,489 LCY me: <u>Attached</u> 1 factor: <u>N/A</u> FION				
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Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	\$853.20 CITIES ,083 55 ,489 LCY me: Attached 1 factor: N/A TION ction: 100 feet 852.6 LCY/	\$41.30			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ	\$853.20 CITIES ,083 55 ,489 LCY me: Attached 1 factor: N/A TION ction: 100 feet 852.6 LCY/	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency de: Average push gradient:	\$853.20 FITIES ,083 55 ,489 LCY me: Attached 1 factor: N/A TION ction: 100 feet 852.6 LCY/ scription: Partly of -15 %	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127. Swell factor: 1.25. Loose volume: 159. Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency dea Average push gradient: Average site altitude:	\$853.20 FITIES ,083 35 ,489 LCY me: Attached 1 factor: N/A TION ction: 100 feet scription: Partly of -15 % 7,800 feet	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency der Average push gradient: Average site altitude: Material weight:	\$853.20 FITIES ,083 35 ,489 LCY me: Attached 1 factor: N/A FION ction: 100 feet ction: 852.6 LCY/ scription: Partly of -15 % 7,800 feet 950 lbs/LCY Cinders	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127. Swell factor: 1.25 Loose volume: 159. Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency dea Average push gradient: Average site altitude: Material weight: Weight description:	\$853.20 FITIES ,083 355 ,489 LCY me: Attached 1 factor: N/A FION ction: 100 feet ction: 852.6 LCY/ scription: Partly of -15 % 7,800 feet 950 lbs/LCY Cinders n Factor Factor	\$41.30			
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Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 127 Swell factor: 1.25 Loose volume: 159 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	\$853.20 FITIES ,083 55 ,489 LCY me: Attached 1 factor: N/A TION ction: 100 feet scription: Partly of -15 % 7,800 feet 950 lbs/LCY Cinders Skill: 0. tency: 1. ethod: 1.	\$41.30			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	2.421	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:		
Adjusted unit production: 1	,502.79 LCY/hr	
Adjusted fleet production: 3	005.58 LCY/hr	

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.284/LCY

Total job time:	53.06 Hours
Total job cost:	\$45,275

BULLDOZER RIPPING WORK

	Task description:	Rip compa	ted areas					
Site	: McCoy Pit		Permit Action:	Inspection 06/	2023 P	ermit/Job#:	M19810	88
	PROJECT IDE	NTIFICATION						
	Task #: 03A	s S	tate: Colorado		Abb	reviation:	None	
	Date: 7/5/ User: HR		inty: <u>Routt</u>]	Filename:	03a	
	Agency	or organization name:	DRMS					
	HOURLY EQU	IPMENT COST						
	Basic N	Iachine: Cat D8T -	8SU		Horsepower:		310	
	Ripper Atta	chment: 1-Shank R	Ripper		Shift Basis: Data Source:		er day CRG)	
	Cost Breakdown:				Data Source.	((
	Cost Bleakdowii.				Utilization %			
		Ownership Cost/Hou		\$241.38	NA	-		
	Dinna	Operating Cost/Hou		\$143.92 \$17.40	100 NA	-		
		r Ownership Cost/Hou er Operating Cost/Hou		\$17.40	100	-		
	napp	Operator Cost/Hou		\$41.30	NA	-		
		Total Unit Cost/Hou	ır:	\$452.74		_		
		Total Fleet Cost/Hou	ır: \$45	2.74				
	MATERIAL Q	UANTITIES	Sel	ected estimating	method: Area	a		
	Alternate Methods	<u>s:</u>		-				
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	20.00	acres	Rip Depth (ft):	2.00		64,533		BCY or CCY
		Source of estimated of	uantity: <u>AM2</u>	Exhibit L				
	HOURLY PRO	DUCTION						
	Seismic:							
	<u>beisine.</u>	Seismi	c Velocity:	NA	feet/sec	ond		
	Area:							
	<u>incu.</u>	Average Ripp	ing Depth:	3.71	feet/pas	s		
		Average Ripp	ing Width:	5.56	feet/pas			
		Average Rippi		200.00	feet/pas			
		Average Do Average Mane		88.00 0.25	feet/min			
		Production pe		0.23	minutes acres/ho	-		
	Job Condition Con	-		0.007		Jui		
		djusted Hourly Unit F	Production	0.607	Acres/h			
	Olla					1		
			e Altitude: titude Adj:	7,800	feet (CAT H	IR)		
			Efficiency:	0.83	(1 shift)			
			Correction:	0.83	(1 shift multipli			
		Adjusted Hourly	Unit Production:	0.50	Acres/hr			
			Fleet Production:		Acres/hr			
	JOB TIME AN	D COST						
	Fleet size:	1 Grad	ler(s)	Total job tim	ne:	39.69	Но	urs
	Unit cost:	\$898.407 Per a	acre	Total job cos	st: \$1	17,968		

WHEEL LOADER - LOAD AND CARRY WORK

Т	ask description:	Placeme	nt of topsoil/ov	erburden			
ite:	McCoy Pit		Permit Act	ion: Inspectio	n 06/2023	Permit/Job#:	M1981088
<u>P</u>	PROJECT IDENT	IFICATION					
	Task #: 04A		State: Color	rado		Abbreviation:	None
	Date: 7/5/2023	3 (County: Rout	t		Filename:	04a
	User: HR1						
	Agency or or	ganization nan	ne: DRMS				
H	IOURLY EQUIP	MENT COST	<u>[</u>				
	Basic Machine	: CAT 972H	[Horsepo	ower:	287
	Attachment 1				Shift E		ber day
					Data So		CRG)
C	lost Dreakdown					i	
<u>c</u>	Cost Breakdown:			Utilizatio	on %		
	Ownership Co	st/Hour:	\$57.78	NA	511 /0		
	Operating Co		\$56.23	100			
	Operator Co		\$40.71	NA			
	Total Unit Co	st/Hour:	\$154.72				
	Total Fleet Co	ost/Hour:	\$309.43				
N	ATERIAL QUA	<u>NIIIIE5</u>					
	Initial volume: Loose volume:	16,134 16,13	4 CC		ell factor: <u>1.0</u>	000	
	Sour	ce of estimated	volumo: AM	2 Exhibit L			
		estimated swe		Handbook			
H	HOURLY PRODU	CTION					
L	oader Cycle Time:	Unadjust	ed Basic Cycle	Гіте (load, dum	p, maneuver):	0.525	minutes
	Cycle Time Fa	ctors				Factor (min.)	Source
	Mat	erial: Mater	ial up to 1/8" dia	ameter 0.02		0.020	(Cat HB)
		xpile: Conve	yor or dozer pile	ed 10 ft. high an		0.000	(Cat HB)
	Truck Owner		justment - factor	11	0.00	0.000	(Cat HB)
	Opera		ant operation -0.	04		-0.040	(Cat HB)
	Dump Ta	arget: Nomin	hal target 0.00			0.000	(Cat HB)
				et Cycle Time A		-0.020	minutes
			А	djusted Basic C	ycle Time:	0.505	minutes
R	Colling Resistance – H	Road Condition	<u>s</u>				
	- IJ.	ul Coft mut	- ad dist no main	tononoo on woto	. 1" ting manata	ation 80	
	Retu		ted dirt, no main ted dirt, no main				<u> </u>
			icu uni, no mani	chance of wate	, + me peneus		
H	Iaul and Return Time	<u>.</u>					
		Length	Grade Res.	Rolling	Total Res.	Travel Time	~
		(feet)	(%)	Res. (%)	(%)	(minutes)	Source
	Haul Route:	500	0.00	8.00	8.00	0.5808	(Cat HB)

8.00

8.00

Return Route:

500

0.00

(Cat HB) (Cat HB)

0.5162

			Total Travel T Total Cycle T		minutes minutes
Load Bucket Capacity					
Rated Capacit	y: <u>5.60</u>	LCY (hea	ped)		
Bucket Fill Facto	or: 1.100	Other - ro	ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capacit	y: 6.16	LCY			
Job Condition Correctio Site Altitude: <u>7800</u> feet	n Factors				
		Source			
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day	y)		
Net Correction:	0.83	multiplier			
	adjusted Hourly Uni Adjusted Hourly Uni		230.71	LCY/Hour LCY/Hour	
	Adjusted Hourly Flee		382.98	LCY/Hour	
JOB TIME AND CO	<u>DST</u>				
Fleet size:	2 Loader(s	5)	Total job time:	42.13	Hours

Unit cost:	\$0.808	/LCY	Total job cost:	\$13,035
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BULLDOZER WORK

Task description:	Sprea	u topson/o	l Dui uch			
McCoy Pit		Peri	mit Action:	Inspection 06/2023	Permit/Job#:	M1981088
PROJECT IDEN	<u> FIFICATIO</u>	N				
Task #: 05A		State:	Colorado		Abbreviation:	None
Date: 7/5/202	23	County:	Routt		Filename:	05a
User: HR1		5			-	
Agency or o	organization n	ame: DR	RMS			
HOURLY EQUIP	MENT CO	ST				
Basic Machine:	Cat D8T - 88					
Horsepower:	310					
Blade Type:	Semi-Univer	sal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
0 1. 0			AA 4 A A	<u>Utilization %</u>		
Ownership Cost/Ho			\$241.38	NA		
Operating Cost/Ho			\$143.92	100		
Ripper own. Cost/Ho			\$0.00 \$0.00	<u>NA</u> 0		
			\$0.00	0		
Ripper op. Cost/Ho			¢ 41.20			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou	sur: \$426.60 r: \$853.20		\$41.30	NA		
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume:	our: \$426.60 r: \$853.20 ANTITIES 16,134 1.000		\$41.30	NA		
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume:	our: : \$426.60 r: \$853.20 ANTITIES 16,134		\$41.30	NA		
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume:	\$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY			NA		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:	\$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume:	0		NA		
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated v	\$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume:	0 AM2 Exh		NA		
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated v	sur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor:	0 AM2 Exh		NA		
Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated of Source of estimated of	sur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor: UCTION	0 AM2 Exh		NA		
Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated vo Source of estimated vo	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor: UCTION xe: 2	0 AM2 Exh Cat Hand				
Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated s	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 voduction: 2	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/				
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume <u>HOURLY PROD</u> Average push distance Unadjusted hourly pr Materials consistency	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 roduction: 2 y description:	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/	 hibit L book			
Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s <u>HOURLY PROD</u> Average push distance Unadjusted hourly pr	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 1.000 16,134 1.000 16,134 Volume: well factor: UCTION ce: 2 roduction: 2 y description: nt: 0 %	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s	 hibit L book			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume <u>HOURLY PROD</u> Average push distance Unadjusted hourly pr Materials consistency Average push gradien	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 vdescription: nt: 0 % 7,800 fr	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s	 hibit L book			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated s HOURLY PRODI Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude:	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 vdescription: nt: 0 % 7,800 fr	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s eet bs/LCY	 hibit L book			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Mourney PROD Average push distance Unadjusted hourly pr Materials consistency Average site altitude: Material weight:	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 1.000 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 v description: nt: 0 % 7,800 fi 2,500 li Clay - 1	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s eet bs/LCY	 hibit L book			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Source of estimated volume Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Operator	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 v description: nt: 0 % 7,800 ff 2,500 ll Clay - 1 ction Factor ator Skill:	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s eet bs/LCY Dry 0.	hr stockpile 1.2			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated volume: Source of estimated volume: Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 1.000 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 v description: nt: 0 % 7,800 ff 2,500 lf Clay - 1 Clay - 1 ction Factor ator Skill: nsistency:	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s eet bs/LCY Dry 0. 1.	hr stockpile 1.2 750 200			
Operator Cost/Ho Operator Cost/Ho Total unit Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Average push distance Unadjusted hourly pr Materials consistency Average push gradien Average site altitude: Material weight: Weight description: Job Condition Correct Opera Material con Dozing	9ur: \$426.60 r: \$853.20 ANTITIES 16,134 1.000 16,134 1.000 16,134 LCY volume: swell factor: UCTION ce: 2 oduction: 2 v description: nt: 0 % 7,800 ff 2,500 ll Clay - 1 ction Factor ator Skill:	0 AM2 Exh Cat Hand 200 feet 491.9 LCY/ Loose s eet bs/LCY Dry 0. 1. 1.	hr stockpile 1.2			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5498	
Adjusted unit production: 2	70.45 LCY/hr	
Adjusted fleet production: 5	40.9 LCY/hr	

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$1.577/LCY

Total job time:	29.83 Hours
Total job cost:	\$25,449

REVEGETATION WORK

Task descr	ption:	Revegetate affec	ted area			
Site: McCoy	Pit	Per	rmit Action:	Inspection 06/2023	Permit/Job	#: M1981088
PROJECT	<u>IDENTIFIC</u>	CATION				
Task #:	06A	State:	Colorado		Abbreviation:	None
Date:	7/5/2023	County:	Routt		Filename:	06a
User:	HR1					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	20.00	pound	\$0.50	\$9.93
			Total Fertilizer Materials	
			Cost/Acre	\$9.93

Application

Description	Cost /Acre
Tractor spreader (MEANS 32 91 13.16 0950)	\$29.62
Total Fertilizer Application Cost/Acre	\$29.62

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Pubescent Wheatgrass - Luna	8.40	17.36	\$28.56
Needle and Thread	3.00	7.92	\$125.55
Western Wheatgrass - Native	9.60	24.24	\$57.60
Basin Wildrye - Trailhead	6.60	26.82	\$101.71
Totals Seed Mix	27.60	76.34	\$313.42

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre

\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$894.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$137.18

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

	No. of Acres: ed Failure Rate: ng Work Items:	50%	Cost /Acre: Cost /Acre*: LLING,SEEDING,MU	
Initial Job Cost: Reseeding Job Cost: Total Job Cost:	\$54,855.22			
Job Hours:				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: Mo	bilize reclamation	n crew and equ	ipment				
e: McCoy Pit		Permit	Action: Inspe	ction 06/2	023 Pe	rmit/Job#	: <u>M198</u>	1088
PROJECT IDI	ENTIFICATI	ON						
Task #: 07	7A	State: Co	lorado		Abbrevi	iation:	None	
Date: 7/	5/2023	County: Ro	utt		File	name:	07a	
User: H	R1							
Agency	or organization	n name: DRMS						
EQUIPMENT	TRANSPOR	T RIG COST						
					Shift basis	s: 1	per day	
					Cost Data Source		RG Data	_
	ck Tractor Desc	-		400 HP	UCK TRACTOR (2ND HALF, 20) SENECK, DRO	006)		
ITu	ick Trailer Desc	ription: Gi			(25T, 50T, AND		EQUIPM	EIN I
				KAILLK	(251, 301, ANL	1001)		
Cost Breakdown:	-							
Available Rig	Capacities	0-25 Tons	26-50 Tons	51-	+ Tons			
	ip Cost/Hour:	\$20.26	\$36.04	\$	47.05			
Operatir	ng Cost/Hour:	\$39.51	\$76.08	\$	82.85			
1	or Cost/Hour:	\$22.52	\$22.52		22.52			
Help	er Cost/Hour:	\$0.00	\$23.53	\$	23.53			
Total Un	nit Cost/Hour:	\$82.29	\$158.17	\$1	75.95			
NON ROADA	BLE EQUIPN	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet		Return T		OT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ f	leet C	ost/ fleet
-	(TONS)		t		fleet			
Cat D8T - 8SU	47.71	\$241.38	\$158.17	2		\$316.34		250.00
CAT 972H	28.00	\$57.78	\$158.17	2	\$431.90	\$316.34	\$2	250.00
Drill/Broadcast Seeder with	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$2	250.00

Subtotals: \$1,320.02 \$714.97 \$750.00

ROADABLE EQUIPMENT:

Tractor

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44
		Subtotals:	\$27.44	\$27.44

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	EAGLE 35.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$8,210.02	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$54.88	

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment 1.00	Roadable Equipment 1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours): Unloading Time (Hours):	0.50 0.50	NA NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time: **6.00** Hours

Total job cost: ______\$8,265

COST SUMMARY WORK

Task description:		Updated post in	spection 6/27	7/2023				
Site:	Site: McCoy Pit		Pe	ermit Action:	Inspection 06/2023	Permit/Job	o#: <u>M1981088</u>	
<u>P</u>]	ROJECT Task #: Date: User:	IDENTIFIC HCR 7/5/2023 HR1	CATION State: County:	Colorado Routt		Abbreviation: Filename:	None M088-HCR	-

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/removal of onsite structures and equipment	DEMOLISH	1	48.00	\$71,927
02a	Slope reduction to 3H:1V	DOZER	2	53.06	\$45,275
03a	Rip compated areas	RIPPER	1	39.68	\$17,968
04a	Placement of topsoil/overburden	LOADER	2	42.12	\$13,035
05a	Spread topsoil/overburden	DOZER	2	29.83	\$25,449
06a	Revegetate affected area	REVEGE	1	60.00	\$164,566
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$8,265
08a	Secondary mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$1,076
		284.69	\$347,561		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$7,021
Performance bond:	1.05	Total =	\$3,649
Job superintendent:	142.34	Total =	\$9,263
Profit:	10.00	Total =	\$34,756
		TOTAL O & P =	\$54,690
		CONTRACT AMOUNT (direct + O & P) = $($	\$402,251

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$20,113
CONTINGENCY:	3.00	Total =	\$10,427
	TOTAL I	NDIRECT COST =	\$85,729
TOTAL BO	\$433,290		