

April 10, 2023

Chris Hurley IHC Scott, Inc. 10303 East Dry Creek Road #300 Englewood, CO 80112

# **RE:** Collette Property, File No. M-2022-051, Construction Material Special (111) Operation Reclamation Permit Application Package- Adequacy Review

Dear Mr. Hurley:

On April 5, 2023, the Division of Reclamation, Mining and Safety (Division) received your incompleteness response for the Construction Material Special (111) Operation Reclamation Permit Application package for the Collette Property, File No. M-2022-051. The application was filed on April 10, 2023. The Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval.

- 1. Mine plan question 6b describes the newly created access road. Per Rule 6.3.3(g) please provide the dimensions (the width and length) of the new access road.
- 2. Will any on site processing of mined material occur within the proposed permit boundary? Rule 6.3.3(e) and (m).
- 3. Will fuel or other hydrocarbons be stored on site? If so, please provide a list of types and anticipated max quantities stored on site at any given time. Describe containment measures and commit to Rule 3.1.13 regarding spills reporting. Also locate the storage location(s) on the Mine Plan Map per Rule 6.3.3(e)
- 4. Per Rule 6.3.3(p) will explosives be used in conjunction with the mining or reclamation operation?
- 5. Clarify for the reclamation plan that of the 9.07 ac permit, only 7.3 acres will required topsoil and seeding. The remaining disturbed areas will remain as a permanent access road.
- 6. Per 4.2.4(1) The Division has received a financial warranty in the amount of \$25,000. Based on the reclamation plan and reclamation cost provided the Division has calculated the estimated financial warranty for this site to be \$72,551. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please submit your response(s) to the above listed issue(s) by <u>Wednesday, April 19, 2023</u> in order to allow the Division sufficient time for review. The decision date for your application is scheduled for April 25, 2023.



The Division will continue to review your application and will contact you if additional information is needed.

If you require additional information, or have questions or concerns, please feel free to contact me. at amy.yeldell@state.co.us or 303-866-3567 Ext 8183.

Sincerely,

Amy Geldell

*Amy Yeldell* Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety

Cc: Travis Marshall Sara Stevenson-Benn

## COST SUMMARY WORK

Task description:		Initial Bond Cal	c					
Site: Collett Property		Pe	rmit Action:	New App	Permit/Jol	o#: <u>M2022051</u>		
PI	ROJECT	IDENTIFIC	ATION					
	Task #:	ACY	State:	Colorado		Abbreviation:	None	
	Date:	4/10/2023	County:	Rio Blanco	I	Filename:	M051-ACY	
	User:	ACY						
	Agency or organization name: DRMS							

### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task		
1 45K	Description	Used	Size	Hours	Cost	
01a	Regrade south slopes to 3.2H: 1V	DOZER	1	79.24	\$17,969	
02a	Rip affected lands prior to topsoil application	RIPPER	1	12.14	\$2,754	
03a	Apply topsoil to affected lands	DOZER	1	49.33	\$11,013	
04a	Reveg affected lands	REVEGE	1	12.00	\$20,887	
05a	Initial Mobilization	MOBILIZE	1	3.45	\$2,754	
05b	Secondary Mobilization	MOBILIZE	1	3.45	\$1,567	
	<u>SUBTOTALS:</u> 159.61 \$56,944					

#### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,150
Performance bond:	1.05	Total =	\$598
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$5,694
		TOTAL O & P =	\$7,443
		CONTRACT AMOUNT (direct + O & P) = $($	\$64,387

#### 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 \$2,736 \$3,219
CONTINGENCY:	3.00	Total =	\$1,708
	TOTAL IN	NDIRECT COST =	\$15,607
TOTAL BO	\$72,551		

## BULLDOZER WORK

PROJECT IDENTIFICATION         Task #:       01A       State:       County:       Rio Blanco       Abbreviation:       None         Date:       4/10/2023       County:       Rio Blanco       Filename:       M051-01a         Use:       ACY	Task description:	Regrade sou	th slopes to 3.2H	I: 1V		
Task #:       01A       State:       Colorado       Abbreviation:       None         Dite:       4/10/2023       County:       Rio Blanco       Filename:       M051-01a         User:       ACY       Agency or organization name:       DRMS         HOURLY EQUIPMENT COST         Basic Machine:       Cat D7R DS Series II LGP         Horsepower:       240         Bale Type:       Stringht         Attachment:       3-shank ripper         Shift Basis:       Iper day         Data Source:       (CRG)         Cost Breakdown:       Villization %         Ownership Cost/Hour:       \$92.78       NA         Ripper own.       \$41.30       NA         Operator Cost/Hour:       \$226.77       Total anti Cost/Hour:       \$226.77         Total effect Cost/Hour:       \$226.77       Total field Cost/Hour:       \$226.77         Matterial cost/Hour:       \$226.77       Total field Cost/Hour:       \$226.77         Source of estimated volume: $\frac{1.520}{1.529 LCY}       Source of estimated volume:       \frac{3.000 LCY/hr}{Cat Handbook}         Bource of estimated swell factor:       \frac{3.0 \text{ for t}}{0.00 LCY/hr}       Source of estimated swell factor:       \frac{3.0 \text{ for t}}{0.00 LCY/hr}     $	Collett Property		Permit Action:	New App	Permit/Job#:	M2022051
Date: $\frac{1}{4/0/2023}$ County: $\overline{\text{Rio Blanco}}$ Filename: $\overline{\text{M051-01a}}$ Agency or organization name:       DRMS         HORENY EQUIPMENT COST         Basic Machine:       - Cat D7R DS Series II LGP         Horsepower:       240         Blade Type:       Straight         Attachment:       3-bank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Ownership Cost/Hour:         Operating Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$82.77         Total unit Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 bonches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Material consistency description:       Compacted fill or embankment 0.9         Average of estiditatiote:       7/400 feet	PROJECT IDEN	<b><u><b>TIFICATION</b></u></b>				
Date: $\frac{1}{4/0/2023}$ County: $\overline{\text{Rio Blanco}}$ Filename: $\overline{\text{M051-01a}}$ Agency or organization name:       DRMS         HORENY EQUIPMENT COST         Basic Machine:       - Cat D7R DS Series II LGP         Horsepower:       240         Blade Type:       Straight         Attachment:       3-bank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Ownership Cost/Hour:         Operating Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$82.77         Total unit Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Total Piect Cost/Hour:       \$226.77         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 bonches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Material consistency description:       Compacted fill or embankment 0.9         Average of estiditatiote:       7/400 feet	Task #: 01A	St	ate: Colorado		Abbreviation:	None
Agency or organization name:       DRMS         FUTLY LOUTIPMENT COST         Basic Machine:       Cat D7R DS Series II LGP         Horsepower:       240         Blade Type:       Straight         Attachment:       3-shaht ripper         Data Source:       (CRG)         Data Source:       S02.78         Ownership Cost/Hour:       S02.78         Operating Cost/Hour:       S02.78         State Source:       S02.78         Operating Cost/Hour:       S02.78         NA       State Source         Ripper opt. Cost/Hour:       S226.77         Total unit Cost/Hour:       S226.77         Total Piete Cost/Hour:       S226.77         Total Fleet Cost/Hour:       S226.77         Source of estimated volume:       3 benches @ S00LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         Metrial Volume:       3 benches @ S00LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         Material wight:       30 %         Average site allitidit:       7.400 feet         Unadjusted hourly production:       800.0 LCY/hr         Material weight:       2.550 lbs/LCY      <	Date: 4/10/2	023 Cour		)		
HOURLY FOUPENT COST         Basic Machine:       Cat D7R DS Series II LGP         Horsepower:       240         Blade Type:       Straight         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       S92.78         Ownership Cost/Hour:       S92.78         Operating Cost/Hour:       S92.78         Operating Cost/Hour:       S92.78         String Cost/Hour:       S92.78         MA       Operating Cost/Hour:         String Cost/Hour:       S92.73         NA       NA         Operator Cost/Hour:       S92.73         Material Cost/Hour:       S226.77         Total unit Cost/Hour:       S226.77         Total Fleet Cost/Hour:       S226.77         Naterial Fleet Cost/Hour:       S226.77         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       800.0 LCY/hr         Material sonsistency description:       Compacted fill or embankment 0.9         Average push distance:       20 for <tr< td=""><td>User: ACY</td><td></td><td>•</td><td></td><td></td><td></td></tr<>	User: ACY		•			
Basic Machine:       Cat D7R DS Series II LGP         Horsepower:       240         Blade Type:       Straight         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       1 per day         Ownership Cost/Hour:       \$92.78         NA       Operating Cost/Hour:         Shift Basis:       1 per day         Operating Cost/Hour:       \$192.78         Ripper on Cost/Hour:       \$4.39         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Material weight isone:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Material consistency description:       Compacted fill or embankment 0.9	Agency or	organization name:	DRMS			
Horsepower:       240         Blade Type:       Straight         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Vililization %         Ownership Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$92.73       100         Ripper op. Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$226.77       Total unit Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77       Total Fleet Cost/Hour:       \$226.77         MATERIAL OUANTITIES       Initial Volume:       6.11       Sure of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill       Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet       Source of estimated swell factor:       Compacted fill or embankment 0.9         Average push gradient:       30 %       Average site altitude:       7.400 feet	HOURLY EQUIE	MENT COST				
Blade Type:       Straight         Attachment:       3-shank ripper         Shift Bask       1 per day         Data Source:       (CRG)         Cost Breakdown:       1         Ownership Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$83.37       NA         Ripper own. Cost/Hour:       \$826.77       NA         Ripper ovn. Cost/Hour:       \$226.77       NA         Total unit Cost/Hour:       \$226.77       NA         Total Fleet Cost/Hour:       \$226.77       NA         Swelf factor:       1.250       NA         Loose volume:       7.639 LCY       Surce of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill       Surce of estimated swell factor:         Material sconsistency description:       Compacted fill or embankment 0.9       Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %	-		II LGP			
Attachment: $3$ -shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       \$92,78         Ownership Cost/Hour:       \$92,78         Ripper own. Cost/Hour:       \$92,78         NA       Operating Cost/Hour:         Stat Source:       \$100         Ripper own. Cost/Hour:       \$8,37         NA       NA         Operator Cost/Hour:       \$44.99         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77         Swell factor:       1.250         Loose volume:       7.639 LCY         Source of estimated swell factor:       2 thandbook         HOURLY PRODUCTION       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       20 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7.400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         <						
Shift Basis:       I per day         Data Source:       (CRG)         Cost Breakdown:       Vultization %         Ownership Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$79.33       100         Ripper own. Cost/Hour:       \$83.71       NA         Ripper own. Cost/Hour:       \$\$4.99       100         Operator Cost/Hour:       \$\$226.77         Total unit Cost/Hour:       \$\$226.77         Total unit Cost/Hour:       \$\$226.77         Matterial Volume:       \$\$1.30         Initial Volume:       \$\$1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Material consistency description:       Cat Handbook         HOURLY PRODUCTION		-				
Data Source: $(CRG)$ Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$92.78         Ripper ov. Cost/Hour:       \$79.33         Ripper ov. Cost/Hour:       \$43.37         NA       \$41.30         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total vinit Cost/Hour:       \$226.77         Total relet Cost/Hour:       \$226.77         Swell factor:       1.250         Loose volume:       7.639 LCY         Source of estimated swell factor:          Total handbook       Cat Handbook         HOURLY PRODUCTION       800.0 LCY/hr         Average push distance:          Source of estimated swell factor:          Material consistency description:       Compacted fill or embankment 0.9         Average site altitude:          7.400 feet          Material weight:       2550 lbs/LCY	-	Å Å				
Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$8.37       NA         Ripper op. Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$226.77       NA         Total unit Cost/Hour:       \$226.77       NA         MATERIAL OUANTITIES	-	<u> </u>				
Utilization %         Ownership Cost/Hour:       \$92.78         Operating Cost/Hour:       \$79.33         Ripper op. Cost/Hour:       \$4.99         Operator Cost/Hour:       \$4.99         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total Volume: $6.111$ Swell factor: $5226.77$ MATERIAL QUANTITIES         Initial Volume: $6.111$ Swell factor: $7.639$ LCY         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Materials consistency description:       Compacted fill or embankment 0.9         Average push distance: $50$ feet         Unadjusted hourly production: $30 \%$ Average site atlitude: $7.400$ feet         Material weight: $2.550$ lbs/LCY         Weight description:       Earth	-					
Ownership Cost/Hour:       \$92.78       NA         Operating Cost/Hour:       \$79.33       100         Ripper op. Cost/Hour:       \$8.37       NA         Ripper op. Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77         MATERIAL OUANTITIES	Cost Breakdown:					
Operating Cost/Hour:       \$79.33       100         Ripper own. Cost/Hour:       \$8.37       NA         Ripper op. Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$226.77         Total unit Cost/Hour:       \$226.77         Total Pieet Cost/Hour:       \$226.77         MATERIAL OUANTITIES         Initial Volume:       6,111         Swell factor:       1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       30.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push distance:       30 %         7,400 feet       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Operator Skill:       0.750         Material consistency:       0.9000         0.9000       (CAT HB))         Dozing method:       1.0						
Ripper own. Cost/Hour: $$8.37$ NA         Ripper op. Cost/Hour: $$4.99$ 100         Operator Cost/Hour: $$42.99$ 100         Total unit Cost/Hour: $$226.77$ Total Fleet Cost/Hour: $$226.77$ MATERIAL QUANTITIES         Initial Volume: $6,111$ Swell factor: $1.250$ Loose volume: $7.639$ LCY         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production: $800.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average site altitude: $7,400$ feet         Material weight: $2,550$ lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $0.9000$ Material consistency: $0.9000$ Material consistency: $0.9000$ Material consistency: $0.9000$ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Ripper op. Cost/Hour: $$4.99$ 100         Operator Cost/Hour:       \$41.30       NA         Total unit Cost/Hour: $$226.77$ Total Fleet Cost/Hour: $$226.77$ MATERIAL QUANTITIES         Initial Volume: $6,111$ Swell factor: $1.250$ Loose volume: $7,639$ LCY         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to $3.2:1$ backfill         Source of estimated swell factor: $Cat Handbook$ HOURLY PRODUCTION         Average push distance: $50$ feet         Unadjusted hourly production: $800.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $30$ % $7,400$ feet						
Operator Cost/Hour:       \$41.30       NA         Total unit Cost/Hour:       \$226.77         Total Fleet Cost/Hour:       \$226.77 <b>MATERIAL QUANTITIES</b> Initial Volume: $6,111$ Swell factor: $1.250$ Loose volume: $7,639$ LCY         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to $3.2:1$ backfill         Source of estimated swell factor: $Cat$ Handbook <b>HOURLY PRODUCTION</b> Average push distance: $50$ feet         Unadjusted hourly production: $800.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $30$ %         Average site altitude: $7,400$ feet         Material weight: $2,550$ lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill: $0.750$ (AVG,)         Material consistency: $0.900$ (CAT HB))         Dozing method: $1.000$ (GEN.)						
Total unit Cost/Hour: $$226.77$ Total Fleet Cost/Hour: $$226.77$ <b>MATERIAL QUANTITIES</b> Initial Volume: $6,111$ Swell factor: $1.250$ Loose volume: $7,639$ LCY         Source of estimated volume: $3$ benches @ 500LF of 10'H 1:1 going to $3.2:1$ backfill         Source of estimated swell factor: $Cat$ Handbook         HOURLY PRODUCTION       Average push distance: $50$ feet         Unadjusted hourly production: $800.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $30$ %         Average site altitude: $7,400$ feet         Material weight: $2.550$ lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill: $0.750$ (AVG.)         Material consistency $0.900$ (CAT HB))         Dozing method: $1.000$ (GEN.)						
Total Fleet Cost/Hour:       \$226.77         MATERIAL QUANTITIES         Initial Volume:       6,111         Swell factor:       1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         7,400 feet	Operator Cost/Ho	our:	\$41.30	NA		
Total Fleet Cost/Hour:       \$226.77         MATERIAL QUANTITIES         Initial Volume:       6,111         Swell factor:       1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         7,400 feet	Total unit Cost/Hour	· \$226.77				
MATERIAL QUANTITIES         Initial Volume:       6,111         Swell factor:       1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Would hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material weight:       0.900         Material oregin method:       1.000						
Initial Volume:       6,111         Swell factor:       1.250         Loose volume: <b>7,639</b> LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook <b>HOURLY PRODUCTION</b> Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Operator Skill:       0.750         Material consistency:       0.900		<u> </u>				
Swell factor:       1.250         Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Cat Handbook         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900 </th <th>MATERIAL QUA</th> <th>ANTITIES</th> <th></th> <th></th> <th></th> <th></th>	MATERIAL QUA	ANTITIES				
Loose volume:       7,639 LCY         Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Opzing method:       1.000		·				
Source of estimated volume:       3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900						
Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Loose volume:	7,639 LCY				
Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Source of estimated	volume: 3 be	nches @ 5001 F o	f 10'H 1.1 going to 3.2	·1 backfill	
HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         In the state of th				1 10 11 1.1 going to 5.2		
Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Materia	Source of estimated		Tandoook			
Average push distance:       50 feet         Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Materia		UCTION				
Unadjusted hourly production:       800.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Job Dozing method:       1.000	<u>HUUKLI PKUD</u>	UCTION				
Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Average push distant	ce: 50 feet				
Average push gradient:       30 %         Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Unadjusted hourly pr	roduction: 800.01	LCY/hr			
Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Materials consistency	y description: <u>Co</u>	ompacted fill or en	mbankment 0.9		
Average site altitude:       7,400 feet         Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000		<b>20</b> <i>at</i>				
Material weight:       2,550 lbs/LCY         Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000						
Weight description:       Earth - Dry packed         Job Condition Correction Factor       Source         Operator Skill:       0.750       (AVG.)         Material consistency:       0.900       (CAT HB))         Dozing method:       1.000       (GEN.)	Average site altitude	: 7,400 feet				
Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Material weight:	2,550 lbs/LC	Y			
Operator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Weight description:	Earth - Dry pa	acked			
Operator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Job Condition Correc	ction Factor		Source		
Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)			0.750			
Dozing method: 1.000 (GEN.)					)	
visionity. 1.000 (AVU.)		Visibility:	1.000	(AVG.)		

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradien	t: 0.298	(CAT HB)
Altitude	e: 1.000	(CAT HB)
Material Weigh	t: 0.902	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n: 0.1205	
Adjusted unit production:	96.40 LCY/hr	
Adjusted fleet production:	96.4 LCY/hr	
—		

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$2.352/LCY

Total job time:	<b>79.24</b> Hours
Total job cost:	\$17,969

# BULLDOZER RIPPING WORK

	Task description:	<b>P</b> ====	ands prior to to				
Site	: Collett Proper	ty	Permit Action:	New App	Perm	nit/Job#: <u>M2</u>	022051
	PROJECT IDE	ENTIFICATION					
	Task #: 02A				Abbrev		
	Date: $\frac{4}{10}$ User: AC	0/2023 Count Y	y: <u>Rio Blanco</u>	)	File	ename: <u>M05</u>	51-02a
	Agency	or organization name:	DRMS				
	HOURLY EQU	UIPMENT COST					
	Basic I	Machine: Cat D7R DS	Series II LGP		Horsepower:	240	
	Ripper Atta	achment: 3-Shank Rip	per		Shift Basis:	1 per day	/
					Data Source:	(CRG)	
	Cost Breakdown:			I	Utilization %		
		Ownership Cost/Hour:		\$92.78	NA		
		Operating Cost/Hour:		\$79.33	100		
		er Ownership Cost/Hour:		\$8.37	NA		
	Ripp	er Operating Cost/Hour:		\$4.99	100		
		Operator Cost/Hour:		\$41.30	NA		
		Total Unit Cost/Hour:		\$226.77			
		Total Fleet Cost/Hour:	\$226	5.77			
	MATERIAL Q	UANTITIES	Sele	cted estimating	method: Area		
	Alternate Method						
Seismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	7.30	acres	Rip Depth (ft):	2.00	Volume: 23,	555	BCY or CO
		Source of estimated qua	antity: Reclam	ation Plan			
	HOURLY PRO	-	•				
	<u>Seismic:</u>	Seismic V	/elocity:	NA	feet/second	4	
		Seisinie	<u></u>	1471		1	
	<u>Area:</u>	A Distance	Durth	2.45	C		
		Average Rippin Average Rippin		<u>2.45</u> 6.50	feet/pass feet/pass		
		Average Ripping		250.00	feet/pass		
		Average Doze		88.00	feet/minute	e	
		Average Maneuv		0.25	minutes/pa		
		Production per u	nit area:	0.724			
	Job Condition Co			0.724	acres/hour		
		rrection Factors		0.724	acres/nour		
	Una	rrection Factors adjusted Hourly Unit Pro		0.724	acres/nour		
	Una	adjusted Hourly Unit Pro					
	Una	adjusted Hourly Unit Pro	duction:	0.724	Acres/hr		
	Una	adjusted Hourly Unit Pro Site . Altit Job Ef	duction: Altitude: ude Adj: ficiency:	0.724 7,400 1.00 0.83	Acres/hr feet (CAT HB) (1 shift/day		
	Un	adjusted Hourly Unit Pro Site . Altit Job Ef	duction: Altitude: ude Adj:	0.724 7,400 1.00	Acres/hr feet (CAT HB)		
	Un	adjusted Hourly Unit Pro Site . Altit Job Ef	duction: Altitude: ude Adj: ficiency: rrection:	0.724 7,400 1.00 0.83	Acres/hr feet (CAT HB) (1 shift/day		
	Un	adjusted Hourly Unit Pro Site . Altit Job Ef Net Co	duction: Altitude: ude Adj: ficiency: rrection: Jnit Production:	0.724 7,400 1.00 0.83 0.83	Acres/hr feet (CAT HB) (1 shift/day multiplier		
	Un: JOB TIME AN	adjusted Hourly Unit Pro Site . Altit Job Ef Net Co Adjusted Hourly U Adjusted Hourly F	duction: Altitude: ude Adj: ficiency: rrection: Jnit Production:	0.724 7,400 1.00 0.83 0.83 0.60	Acres/hr feet (CAT HB) (1 shift/day multiplier Acres/hr		
		adjusted Hourly Unit Pro Site . Altit Job Ef Net Co Adjusted Hourly U Adjusted Hourly F	duction: Altitude: ude Adj: ficiency: rrection: Unit Production: leet Production:	0.724 7,400 1.00 0.83 0.83 0.60	Acres/hr feet (CAT HB) (1 shift/day multiplier Acres/hr Acres/hr	y)	Hours

## BULLDOZER WORK

Task description:	Apply u	psoil to affected land	us		
Collett Property		Permit Action:	New App	Permit/Job#:	M2022051
PROJECT IDEN	<b>FIFICATION</b>				
Task #: 03A		State: Colorado		Abbreviation:	None
Date: 4/10/20	)23	County: Rio Blance	0	Filename:	M051-03a
User: ACY		-		-	
Agency or o	organization nan	ne: DRMS			
HOURLY EQUIP	MENT COST	<u>[</u>			
Basic Machine:	Cat D7R DS Se	eries II LGP			
Horsepower:	240				
Blade Type:	Straight				
Attachment:	3-shank ripper				
Data Source:	1 per day (CRG)				
Data Source:	(CKG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Ho		\$92.78	NA		
Operating Cost/Ho		\$79.33	100		
Ripper own. Cost/Ho		\$8.37	NA 20		
Ripper op. Cost/Ho		\$1.50	30		
Operator Cost/Ho	our:	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hou	r: \$223.28				
Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume:	r: <b>\$223.28 ANTITIES</b> 4,907				
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	r: \$223.28				
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v	r: \$223.28 <b>ANTITIES</b> 4,907 1.215 <b>5,962</b> LCY volume:	7.3 ac @ 5" of topsoil	1		
Total Fleet Cost/Hou         MATERIAL QUA         Initial Volume:         Swell factor:         Loose volume:	r: \$223.28 <b>ANTITIES</b> 4,907 1.215 <b>5,962</b> LCY volume:	7.3 ac @ 5" of topsoil Cat Handbook	1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v	r: \$223.28 <b>NTITIES</b> 4,907 1.215 <b>5,962</b> LCY volume: 7 swell factor: 6		 1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: swell factor: UCTION	Cat Handbook	 1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: well factor: UCTION ce:25		1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: well factor: UCTION ce:25 roduction:3	Cat Handbook			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v MOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradien	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: 7 well factor: 6 UCTION see: 25 roduction: 23 y description: nt: 15 %	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated			
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 PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude:	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: 7 well factor: 6 UCTION ce: 25 roduction: 23 y description: nt: 15 % 7,400 fee	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight:	r: $$223.28$ ANTITIES 4,907 1.215 5,962 LCY volume: well factor: UCTION ce:25 roduction:3 y description: nt:15 %7,400 fee1,600 lbs.	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t			
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description:	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: 7 well factor: 6 UCTION re: 25 roduction: 23 y description: nt: 15 % 7,400 fee 1,600 lbs, Top Soil	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t	stockpile 1.1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Materials consistency Material weight: Weight description: Job Condition Correct	r: \$223.28 ANTITIES 4,907 1.215 5,962 LCY volume: well factor: UCTION ve:25 roduction:3 y description: nt:15 % 1,600 lbs, Top Soil ction Factor	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t /LCY	stockpile 1.1		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Mourney PRODU Average push distance Unadjusted hourly pr Materials consistency Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Opera	r: $$223.28$ ANTITIES 4,907 1.215 5,962 LCY volume: $25$ coduction: $23$ v description: nt: $15 \%$ 7,400 fee 1,600 lbs, Top Soil ction Factor ator Skill:	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t (LCY) 0.750	stockpile 1.1 <u>Source</u> (AVG.)		
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 presson Average push gradier Average push gradier Average site altitude: Material weight: Weight description: Job Condition Correct Operation Material control correct	r: $$223.28$ ANTITIES 4,907 1.215 5,962 LCY volume: $25$ coduction: $23$ v description: nt: $15 \%$ 7,400 fee 1,600 lbs, Top Soil ction Factor ator Skill:	Cat Handbook 0 feet 0.4 LCY/hr Partly consolidated t /LCY	stockpile 1.1		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5246	
Adjusted unit production: 12	20.87 LCY/hr	
Adjusted fleet production: 12	20.87 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.847/LCY

Total job time:	<b>49.33</b> Hours
Total job cost:	\$11,013

# **REVEGETATION WORK**

Task descrip	otion:	Reveg affected lands	
Site: Collett Property		Permit Action: <u>New App</u>	Permit/Job#: M2022051
PROJECT	IDENTIFIC	CATION	
Task #: Date: User:	04A 4/10/2023 ACY	State:     Colorado       County:     Rio Blanco	Abbreviation: None Filename: M051-04a
Ag	ency or organi	zation name: DRMS	

## **FERTILIZING**

#### Materials

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

## Application

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

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.70	11.98	\$24.05
Galleta	4.38	15.99	\$97.89
Needle and Thread	6.06	16.00	\$253.61
Western Wheatgrass - Native	5.52	13.94	\$33.12
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
Totals Seed Mix	26.22	88.19	\$569.81

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

#### **MULCHING and MISCELLANEOUS**

#### Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$845.76

### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

### NURSERY STOCK PLANTING

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

# JOB TIME AND COST

	No. of Acres:	7.3	Cost /Acre:	
Estimated Failure Rate:		40%	Cost /Acre*:	\$1,960.08
*Selected Replanti	ng Work Items:	SEEDING, MULCHI	NG	
Initial Job Cost:	\$15,164.00			
Reseeding Job Cost:	\$5,723.43			
Total Job Cost:	\$20,887			
Job Hours:	12.00			

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Init</u>	tial Mobilization					
e: Collett Prope	Permit Action: <u>New App</u>			Permit/Job#: <u>M2022051</u>			
PROJECT IDE	NTIFICATI	ON					
Task #: 05A State: Colorado					Abbre	eviation: None	
Date:4/10/2023County:Rio BlancoUser:ACY				F	lename: M05	1-05a	
Agency	or organization	n name: DRMS					
EQUIPMENT '	TRANSPOR	<u>T RIG COST</u>					
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR		$\frac{1}{CRG Da}$ $DR, 6X4, DIESEI$	nta
Ten	l Troilor Dooo	rintion.			(2ND HALF,	2006) ROP DECK EQU	IDMENIT
1 ruc	ck Trailer Desc	ription: G			(25T, 50T, A)	•	IPMENI
					(231, 301, 71	(1001)	
Cost Breakdown:							
Available Rig (		0-25 Tons	26-50 Tons		+ Tons		
	p Cost/Hour:	\$15.25	\$23.06		37.58		
	g Cost/Hour:	\$25.26	\$30.83	\$51.41			
	or Cost/Hour:	\$27.71	\$27.71		27.71		
	er Cost/Hour:	\$0.00	\$20.22		\$20.22		
Total Uni	it Cost/Hour:	\$68.22	\$101.82	\$1	36.92		
NON ROADAE	<u>BLE EQUIPN</u>	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)		t		fleet		
Cat D7R DS Series II LGP	38.49	\$101.15	\$101.82	1	\$202.97	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: \$360.45 \$238.26 \$750.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$82.19	1	\$82.19	\$82.19
Light Duty Pickup, 4x4, 1 T. Crew	\$51.98	1	\$51.98	\$51.98
	_1	Subtotals:	\$134.17	\$134.17

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	RIFLE, CO 20.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$2,656.33	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$97.58	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.73	0.73

### JOB TIME AND COST

Total job time: 3.45 Hours

Total job cost: \$2,754

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Sec	ondary Mobiliza	tion				
te: Collett Proper	rty	Permit	Action: New	Арр		Permit/Job#:	M2022051
PROJECT IDE	NTIFICATI	ON					
Task #: 051			olorado		Abbre	eviation: 1	None
Date: 4/1 User: AC	0/2023 2Y	County: <u>Ri</u>	o Blanco		Fi	ilename: 1	M051-05b
Agency	or organization	n name: DRMS					
EQUIPMENT 7	<b>TRANSPOR</b>	<u>T RIG COST</u>					
					Shift ba Cost Data Sou	1	er day G Data
Trucl	x Tractor Desc	ription: GENE	RIC ON-HIGH		UCK TRACT( 2 (2ND HALF,		ESEL POWERED,
Truc	k Trailer Desc	ription: G	ENERIC FOLD	ING GOO		ROP DECK	EQUIPMENT
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51	+ Tons		
	Cost/Hour:	\$15.25	\$23.06		37.58		
	g Cost/Hour:	\$25.26	\$30.83		51.41		
	r Cost/Hour:	\$27.71	\$27.71		27.71		
1	r Cost/Hour:	\$0.00	\$20.22		20.22		
Total Uni	t Cost/Hour:	\$68.22	\$101.82	\$1	36.92		
NON ROADAB	LE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tr	ip DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/ fleet	Cost/hr/ fl	
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: **\$157.48 \$136.44 \$500.00** 

### **ROADABLE EQUIPMENT:**

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	\$51.98	1	\$51.98	\$51.98
		Subtotals:	\$51.98	\$51.98

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	RIFLE, CO 20.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,528.72	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$37.80	

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment 0.36	Roadable Equipment 0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.73	0.73

### JOB TIME AND COST

Total job time: 3.45 Hours

Total job cost: \$1,567