



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

June 20, 2023

Steve Baker  
Russell Ranch General Partnership dba WR Aggregates  
1240 Rio Blanco County Road 8  
P.O. Box 597  
Meeker, CO 81641

**Re: Russell Ranch Pit - File No. M-2006-008**  
**Russell Ranch General Partnership dba WR Aggregates**  
**Surety Increase (SI-2)**  
**Surety Increase**

Dear Steve Baker:

On June 20, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$54,424.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$7,031.79.

Please see the June 7, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (June 20, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after August 19, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$47,400.00
Prior Liability:	\$47,392.21
Change in Liability:	\$7,031.79
Revised Liability:	\$54,424.00
Prior Permit Acreage:	9.90



Change in Permit Acreage:	0.00
Revised Permit Acreage:	9.90
Prior Affected Acreage:	9.90
Change in Affected Acreage:	0.00
Revised Affected Acreage:	9.90

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell  
Environmental Protection Specialist

cc: Ben Rogers

M-GR-04

## COST SUMMARY WORK

Task description: 2023 post inspection update

Site: Russell Ranch Pit

Permit Action: 2023

Permit/Job#: M2006008

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 6/20/2023

County: Rio Blanco

Filename: M008-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce slopes to 3H:1V	DOZER	1	29.86	\$6,372
02a	Rip 7.16 acres of compacted pit floor	RIPPER	1	15.76	\$3,575
03a	Distribute 6 inches topsoil over 8.4 acres	DOZER	1	32.40	\$6,915
04a	Revegetate 9.18 acres	REVEGE	1	16.00	\$20,292
05a	Initial Mobilization	MOBILIZE	1	2.66	\$2,476
05b	Secondary Mobilization	MOBILIZE	1	2.66	\$1,451
<b><u>SUBTOTALS:</u></b>				<b>99.34</b>	<b>\$41,081</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 49.67  
Profit: 10.00

Total = \$830

Total = \$431

Total = \$3,732

Total = \$4,108

TOTAL O & P = \$9,101

CONTRACT AMOUNT (direct + O & P) = \$50,182

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$2,509

CONTINGENCY: 3.00

Total = \$1,232

TOTAL INDIRECT COST = \$13,343

**TOTAL BOND AMOUNT (direct + indirect) = \$54,424**

**BULLDOZER WORK**Task description: Reduce slopes to 3H:1VSite: Russell Ranch PitPermit Action: 2023Permit/Job#: M2006008**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 6/20/2023County: Rio BlancoFilename: M008-01aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS Series II LGPHorsepower: 240Blade Type: StraightAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$213.41Total Fleet Cost/Hour: **\$213.41****MATERIAL QUANTITIES**Initial Volume: 7,595Swell factor: 1.330Loose volume: **10,101 LCY**Source of estimated volume: 1.5:1 going to 3:1 @ 25' H and 1750 LFSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 594.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -30 %Average site altitude: 6,660 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5690

Adjusted unit production: 338.33 LCY/hr

Adjusted fleet production: **338.33** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.631/LCY

Total job time: **29.86** Hours

Total job cost: **\$6,372**

## BULLDOZER RIPPING WORK

Task description: Rip 7.16 acres of compacted pit floor

Site: Russell Ranch Pit

Permit Action: 2023

Permit/Job#: M2006008

### PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 6/20/2023

County: Rio Blanco

Filename: M008-02a

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP  
Ripper Attachment: 3-Shank Ripper

Horsepower: 240

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper Ownership Cost/Hour:	\$8.37	NA
Ripper Operating Cost/Hour:	\$4.99	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$226.77	
Total Fleet Cost/Hour:	<b>\$226.77</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 7.16 acres Rip Depth (ft): 2.00 Volume: 23,103 BCY or CCY

Source of estimated quantity: Reclamation Requirement

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.45 feet/pass  
Average Ripping Width: 6.50 feet/pass  
Average Ripping Length: 50.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.547 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.547 Acres/hr  
Site Altitude: 6,660 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.45 Acres/hr

Adjusted Hourly Fleet Production: **0.45** Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **15.77** Hours

Unit cost: \$499.356 Per acre Total job cost: **\$3,575**

**BULLDOZER WORK**Task description: Distribute 6 inches topsoil over 8.4 acresSite: Russell Ranch PitPermit Action: 2023Permit/Job#: M2006008**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 6/20/2023County: Rio BlancoFilename: M008-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS Series II LGPHorsepower: 240Blade Type: StraightAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$213.41Total Fleet Cost/Hour: **\$213.41****MATERIAL QUANTITIES**Initial Volume: 6,776Swell factor: 1.215Loose volume: **8,233 LCY**Source of estimated volume: Originally 9.1 ac, 0.7 ac completed to dateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 289.3 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -5 %Average site altitude: 6,660 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

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: 0.8783

Adjusted unit production: 254.09 LCY/hr

Adjusted fleet production: **254.09** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.840/LCY

Total job time: **32.40** Hours

Total job cost: **\$6,915**



**REVEGETATION WORK**Task description: Revegetate 9.18 acresSite: Russell Ranch PitPermit Action: 2023Permit/Job#: M2006008**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 6/20/2023County: Rio BlancoFilename: M008-04aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

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

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Russian Wildrye - Vinal	2.50	10.04	\$15.45
Smooth Brome - Lincoln	4.30	14.31	\$14.30
Intermediate Wheatgrass - Oahe	3.80	8.11	\$10.64
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
<b>Totals Seed Mix</b>	<b>14.60</b>	<b>42.57</b>	<b>\$66.39</b>

**Application**

Description	Cost /Acre
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Drill seeding (MEANS 32 92 19.13 0020)	\$484.00
<b>Total Seed Application Cost/Acre</b>	<b>\$484.00</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / 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}	1.50	TON	\$421.36	\$632.04
<b>Total Mulch Materials Cost/Acre</b>				<b>\$635.08</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
<b>Total Mulch Application Cost/Acre</b>	<b>\$397.73</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 9.18 Cost /Acre: \$1,700.38  
 Estimated Failure Rate: 30% Cost /Acre\*: \$1,700.38  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$15,609.49**  
 Reseeding Job Cost: **\$4,682.85**  
 Total Job Cost: **\$20,292**  
 Job Hours: **16.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Russell Ranch Pit**Permit Action: **2023**Permit/Job#: **M2006008****PROJECT IDENTIFICATION**Task #: **05A**State: **Colorado**Abbreviation: **None**Date: **6/20/2023**County: **Rio Blanco**Filename: **M008-05a**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ 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 (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
Subtotals:					<b>\$360.45</b>	<b>\$238.26</b>	<b>\$750.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$114.71	1	\$114.71	\$114.71
Water Tanker, 2,500 Gal.	\$51.72	1	\$51.72	\$51.72
Subtotals:			<b>\$166.43</b>	<b>\$166.43</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: MEEKER  
 Total one-way travel distance: 5.00 miles  
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,420.47  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$55.48  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.33	0.33

**JOB TIME AND COST**

Total job time: 2.67 Hours

Total job cost: \$2,476

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **Russell Ranch Pit**Permit Action: **2023**Permit/Job#: **M2006008****PROJECT IDENTIFICATION**Task #: **05B**State: **Colorado**Abbreviation: **None**Date: **6/20/2023**County: **Rio Blanco**Filename: **M008-05b**User: **ACY**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
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:					<b>\$157.48</b>	<b>\$136.44</b>	<b>\$500.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$114.71	1	\$114.71	\$114.71
Subtotals:			<b>\$114.71</b>	<b>\$114.71</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: MEEKER  
 Total one-way travel distance: 5.00 miles  
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost \* \$1,412.93  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$38.24  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.33	0.33

**JOB TIME AND COST**

Total job time: 2.67 Hours

Total job cost: \$1,451