



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

August 23, 2023

Chris Van Valkenburg
Van Valkenburg Cattle Company, LLC
12353 Hwy 14
Walden, CO 80480

**Re: Van Valkenburg Gravel Pit - File No. M-2005-003
Van Valkenburg Cattle Company, LLC
Surety Increase (SI-1)
Bond increase from \$10,800 to \$13,978.**

Dear Chris Van Valkenburg:

On August 23, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$13,978.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$3,178.00.

Please see the July 19, 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 (August 23, 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 October 22, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$10,800.00
Prior Liability:	\$10,800.00
Change in Liability:	\$3,178.00
Revised Liability:	\$13,978.00
Prior Permit Acreage:	36.00



Change in Permit Acreage:	0.00
Revised Permit Acreage:	36.00
Prior Affected Acreage:	36.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	36.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,



Hunter C. Ridley
Environmental Protection Specialist

COST SUMMARY WORK

Task description: Post Inspection 7/23

Site: Van Valkenburg Gravel Pit

Permit Action: Inspection 7/23

Permit/Job#: M2005003

PROJECT IDENTIFICATION

Task #: HCR

State: Colorado

Abbreviation: None

Date: 7/28/2023

County: Jackson

Filename: M003-HCR

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
02	Grade 5 acres	GRADER	1	4.03	\$640
03	Spread topsoil (5 acres) at 6"	DOZER	1	10.94	\$1,688
04	Revegetate 5 acres	REVEGE	1	7.00	\$4,724
05	mob/demob equipment	MOBILIZE	1	9.33	\$3,756
<u>SUBTOTALS:</u>				31.3	\$10,808

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$218

Performance bond: 1.05

Total = \$113

Job superintendent: 16.78

Total = \$1,092

Profit: 10.00

Total = \$1,081

TOTAL O & P = \$2,505

CONTRACT AMOUNT (direct + O & P) = \$13,313

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$666

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$3,170

TOTAL BOND AMOUNT (direct + indirect) = \$13,978

MOTOR GRADER WORK

Task description: Grade 5 acres

Site: Van Valkenburg Gravel Pit

Permit Action: Inspection 7/23

Permit/Job#: M2005003

PROJECT IDENTIFICATION

Task #: 02 State: Colorado Abbreviation: None
Date: 7/28/2023 County: Jackson Filename: 02
User: HR1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 12M Horsepower: 158
Ripper Attachment: Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$74.98</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$55.26</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$0.00</u>	
Operator Cost/Hour:	<u>\$28.56</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$158.80</u>	
Total Fleet Cost/Hour:	<u>\$158.80</u>	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 5.00 acres

Source of estimated acreage: 5 acres currently remain disturbed

HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Finish grading (0-2.5 mph) - 1.5
Selected Blade Angle: -1 degrees
Effective Blade Length: 0.00 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 7.58 feet
Unadjusted Hourly Unit Production: 1.3782 acres/hour

Job Condition Correction Factors

Site Altitude: 8300 feet

		Source
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.90</u>	<u>(1sh/d, fav.)</u>
Net Correction:	<u>0.9000</u>	<u>multiplier</u>

Adjusted Hourly Unit Production: 1.2404 acres/Hour
Adjusted Hourly Fleet Production: 1.2404 acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 4.03 Hours

Unit cost: \$128.03 per acre Total job cost: \$640

BULLDOZER WORKTask description: Spread topsoil (5 acres) at 6"Site: Van Valkenburg Gravel PitPermit Action: Inspection 7/23Permit/Job#: M2005003**PROJECT IDENTIFICATION**Task #: 03State: ColoradoAbbreviation: NoneDate: 7/28/2023County: JacksonFilename: 03User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D5N LGP - 5PHorsepower: 96Blade Type: Power Angle TiltAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$68.32	NA
Operating Cost/Hour:	\$44.72	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: \$154.34Total Fleet Cost/Hour: **\$154.34****MATERIAL QUANTITIES**Initial Volume: 4,000Swell factor: 1.000Loose volume: **4,000** LCYSource of estimated volume: Rec PlanSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 400 feetUnadjusted hourly production: NA LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 8,300 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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: LCY/hr

Adjusted fleet production: LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: /LCY

Total job time: Hours

Total job cost: 0

REVEGETATION WORKTask description: Revegetate 5 acresSite: Van Valkenburg Gravel PitPermit Action: Inspection 7/23Permit/Job#: M2005003**PROJECT IDENTIFICATION**Task #: 04
Date: 7/28/2023
User: HR1State: Colorado
County: JacksonAbbreviation: None
Filename: 04Agency or organization 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	20.00	64.74	\$130.00
Crested Wheatgrass - Standard	10.00	45.91	\$41.50
Russian Wildrye - Vinal	10.00	40.17	\$61.80
Sheep Fescue - Bighorn	20.00	312.21	\$88.00
Milk Vetch, Cicer - Lutana	10.00	33.29	\$82.00
Western Wheatgrass - Native	10.00	25.25	\$60.00
Bluebunch Wheatgrass - Goldar	20.00	64.28	\$92.00
Totals Seed Mix	100.00	585.86	\$555.30

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 5 Cost /Acre: \$787.30
 Estimated Failure Rate: 20% Cost /Acre*: \$787.30
 *Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$3,936.50**
 Reseeding Job Cost: **\$787.30**
 Total Job Cost: **\$4,724**
 Job Hours: **7.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mob/demob equipmentSite: Van Valkenburg Gravel PitPermit Action: Inspection 7/23Permit/Job#: M2005003**PROJECT IDENTIFICATION**Task #: 05
Date: 7/28/2023
User: HR1State: Colorado
County: JacksonAbbreviation: None
Filename: M003-05Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per day
Cost Data Source: CRG DataTruck 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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 D5N LGP - 5P	11.47	\$68.32	\$82.29	1	\$150.61	\$82.29	\$250.00
CAT 12M	16.01	\$74.98	\$82.29	1	\$157.27	\$82.29	\$250.00

Subtotals: **\$307.88** **\$164.58** **\$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	\$27.44	1	\$27.44	\$27.44
Drill/Broadcast Seeder with Tractor	\$14.81	1	\$14.81	\$14.81
Power Mulcher (Bowie LD-90)	\$57.02	1	\$57.02	\$57.02

Subtotals: **\$99.27** **\$99.27**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

STEAMBOAT
SPRINGSTotal one-way travel distance: 60.00 milesAverage Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost *

\$3,491.41

** two round trips with haul rig:

Total Roadable Mob/Demob Cost **

\$264.72

** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.33	1.33
Return Time (Hours):	1.33	1.33
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	4.67	2.67

JOB TIME AND COSTTotal job time: 9.33 HoursTotal job cost: \$3,756