

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY
Department of Natural Resources

1313 Sherman St., Room 215
Denver, Colorado 80203
Phone: (303) 866-3567
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September 27, 2012

Laurie Cogan Jacobson
McQuaid LLC
24800 U.S. Hwy 285 S.
Buena Vista, CO
81211

John W. Hickenlooper
Governor

Mike King
Executive Director

Loretta Pineda
Director

***RE: Topsoil Pit, File No.M-2012-027, Contruction Material Regular (112) Operation
Reclamation Permit Application Decision Letter – Financial and Performance Warranty
Request***

Dear Mrs. Cogan Jacobson:

On September 27, 2012, the Division of Reclamation, Mining and Safety (Division) approved the above noted permit application.

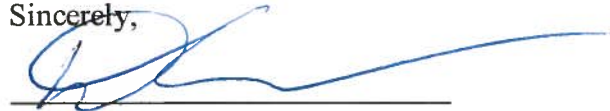
The amount of financial warranty set by the Division for this operation is an amount of (\$9,400.00). A financial warranty of the entire amount, as well as a performance warranty, must be submitted to the Division before a Reclamation Permit may be issued. Please select a type of financial warranty from those detailed in Rule 4.3. Once a financial warranty type is selected, please download the applicable financial warranty and performance warranty forms from the Division's website <http://mining.state.co.us/Mineral%20Forms.htm>. You may also contact the the Division to have copies of your selected warranty forms mailed to you.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial and performance warranties. Any questions regarding completion, execution and/or submittal of financial and/or performance warranty forms should also be directed to Barbara Coria.

PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION AFTER RECEIPT OF THE FINANCIAL AND PERFORMANCE WARRANTIES. A PERMIT WILL NOT BE ISSUED UNTIL THE ADEQUACY OF BOTH THE FINANCIAL WARRANTY AND PERFORMANCE WARRANTY ARE VERIFIED BY THE DIVISION.

Please feel free to contact me, regarding any questions or concerns you may have, at the Division of Reclamation, Mining and Safety Grand Junction Field Office.

Sincerely,



Dustin Czapla

Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety
101 South 3rd, Suite 301
Grand Junction, CO 81501
Phone: (970) 243-6299
Fax: (970) 241-1516

Enclosure: *DRMS Bond Calculation Worksheets*

Cc:

COST SUMMARY WORK

Task description: Initial bond calculation

Site: Topsoil Pit

Permit Action: 1st bond

Permit/Job#: M2012027

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/24/2012

County: Chaffee

Filename: M027-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
010	Grade mined area	DOZER	1	3.49	\$545.54
020	Revegetate single phase	REVEGE	1	10.00	\$5,165.88
03a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.71	\$1,777.35
<u>SUBTOTALS:</u>				16.2	\$7,488.77

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 8.10
Profit: 10.00

Total = \$151.27

Total = \$78.63

Total = \$480.33

Total = \$748.88

TOTAL O & P = \$1,459.11

CONTRACT AMOUNT (direct + O & P) = \$8,947.88

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = 0.00

Total = \$0.00

\$447.39

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$1,906.50

TOTAL BOND AMOUNT (direct + indirect) = \$9,400.00

REVEGETATION WORKTask description: Revegetate singlephaseSite: Topsoil PitPermit Action: 1st bondPermit/Job#: M2012027PROJECT IDENTIFICATIONTask #: 020State: ColoradoAbbreviation: NoneDate: 9/24/2012County: ChaffeeFilename: M027-020User: DMCAgency or organization name: DRMSFERTILIZING**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)	\$92.35
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
Total Tilling Cost/Acre	\$237.55

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	11.00	53.03	\$27.50
Meadow Brome - Regar	16.50	15.15	\$48.51
Oats - Russel	30.00	8.95	\$9.60
Totals Seed Mix	57.50	77.13	\$85.61

Application

Description	Cost /Acre
Drill seeding {DMG}	\$90.11
Total Seed Application Cost/Acre	\$90.11

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:	10	Cost /Acre:	\$413.27
Estimated Failure Rate:	25%	Cost /Acre*:	\$413.27
*Selected Replanting Work Items:	TILLING, SEEDING		
Initial Job Cost:	\$4,132.70		
Reseeding Job Cost:	\$1,033.18		
Total Job Cost:	\$5,165.88		
Job Hours:	10.00		

BULLDOZER WORKTask description: Grade mined areaSite: Topsoil PitPermit Action: 1st bondPermit/Job#: M2012027PROJECT IDENTIFICATIONTask #: 010State: ColoradoAbbreviation: NoneDate: 9/24/2012County: ChaffeeFilename: M027-010User: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D6T LGPHorsepower: 200Blade Type: StraightAttachment: NAShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$49.25	NA
Operating Cost/Hour:	\$68.58	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: \$156.32Total Fleet Cost/Hour: \$156.32MATERIAL QUANTITIESInitial Volume: 1,000Swell factor: 1.000Loose volume: 1,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 50 feetUnadjusted hourly production: 444.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 7,800 feetMaterial weight: 1,600 lbs/LCYWeight description: Top SoilJob 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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6445

Adjusted unit production: 286.54 LCY/hr

Adjusted fleet production: **286.54** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.546/LCY

Total job time: **3.49** Hours
Total job cost: **\$545.54**

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: **Mobilize reclamation crew and equipment**Site: **Topsoil Pit**Permit Action: **1st bond**Permit/Job#: **M2012027****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **9/27/2012**County: **Chaffee**Filename: **M027-03a**User: **DMC**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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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 D6T LGP	26.87	\$49.25	\$117.55	1	\$166.80	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: **\$295.06** **\$206.22** **\$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	\$25.30	1	\$25.30	\$25.30

Subtotals: **\$25.30** **\$25.30**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	BUENA VISTA	
Total one-way travel distance:	8.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,768.35	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$9.00	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.18	0.18
Return Time (Hours):	0.18	0.18
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.36	0.36

JOB TIME AND COST

Total job time:	2.71	Hours
Total job cost:	\$1,777.35	