

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106 COLORADO
DIVISION OF
RECLAMATION
MINING
————
SAFETY

March 12, 2013

Robert Gill Bear Ranch, LLC 30682 CR 12 Somerset, CO 81434 John W. Hickenlooper Governor

Mike King Executive Director

Loretta Piñeda Director

RE: Bear Ranch Gravel Mine, File No.M-2013-002, Construction Material Limited Impact (110) Operation Reclamation Permit Application Decision Letter – Financial and Performance Warranty Request

Dear Mr. Gill:

On March 12, 2013, 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 (\$49,400.00). 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. 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 <u>AFTER</u> 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.

Bear Ranch Gravel Mine March 12, 2013 Page 2

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-Ezapla

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: Eric Mangeot, Resource Engineer

COST SUMMARY WORK

Task description: Reclamation Liability Estimate

Site: Bear Ranch Gravel Mine Permit Action: Initial Permit/Job#: M2013002

PROJECT IDENTIFICATION

Task #: 000 Date: 3/4/2013 State: Colorado

Gunnison

County:

Abbreviation:

Filename:

None

M002-000

DMC User:

> Agency or organization name: **DRMS**

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrading	DOZER	1	119.36	\$19,935.87
02a	Spread topsoil	DOZER] 1	15.26	\$2,548.34
03a	Revegetate	REVEGE	1	10.00	\$12,075.75
04a	Mobilize reclamation crew/equipment	MOBILIZE	1	4.85	\$2,312.87
19		TALS:	149.47	\$36,872.83	

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:

2.02%

1.05%

Performance bond:

74.73 hrs

Total = Total = \$744.83

Job superintendent:

Total =

\$387.16 \$4,888.09

Profit:

Total =

\$3,687.28

10.00%

TOTAL O & P =

\$9,707.36

CONTRACT AMOUNT (direct + O & P) =

\$46,580.19

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

500.00

Total = 500.00

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 0.00% 5.00% Total = \$0.00 \$2,329.01

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$12,536.37

TOTAL BOND AMOUNT (direct + indirect) = \$49,400.00

BULLDOZER WORK

rading	
	grading

Site: Bear Ranch Gravel Mine Permit Action: Initial Permit/Job#: M2013002

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None

Date: 3/5/2013 County: Gunnison Filename: M002-01a
User: DMC

User: __DMC Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP

Horsepower: 238
Blade Type: Straight
Attachment: NA

Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

 Ownership Cost/Hour:
 \$44.66
 NA

 Operating Cost/Hour:
 \$81.07
 100

 Ripper op. Cost/Hour:
 \$0.00
 0

 Operator Cost/Hour:
 \$37.41
 NA

Total unit Cost/Hour: \$163.14
Total Fleet Cost/Hour: \$163.14

MATERIAL QUANTITIES

Initial Volume: 15,000 Swell factor: 1.000

Loose volume: 15,000 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 289.3 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,700 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

 Job Condition Correction Factor
 Source

 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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4344

Adjusted unit production: 125.67 LCY/hr

Adjusted fleet production: 125.67 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.298/LCY

Total job time: 119.36 Hours Total job cost: \$19,472.39

Task description:		ad topsoil	9/25	M pa	
Bear Ranch Grav	el Mine	Permit Action:	Initial	Permit/Job#	M2013002
PROJECT IDENT	TEICATIO) N			
	IFICATIO				
Task #: 02A		State: Colorado		Abbreviation:	None
Date: 3/5/201 User: DMC	3	County: Gunnison		Filename:	M002-02a
Agency or o	rganization	name: DRMS			
HOURLY EQUIP	MENT CO	OST			
Basic Machine:		S Series II LGP			
Horsepower:	238	5 501.05 11 201			
Blade Type:	Straight				
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)	4.5			
Cost Breakdown:			Thilling of		
Ownership Cost/Ho	17 . "	\$44.66	Utilization % NA		
Operating Cost/Ho		\$81.07	100		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho		\$37.41	NA		
	3,793 1.000				
The second secon	3,793 LCY				
Source of estimated v	olume:	Division of Reclamat	tion, Mining & Safety		
Source of estimated s	well factor:	Cat Handbook			
HOURLY PRODU	JCTION				
Average push distanc		200 feet			
Unadjusted hourly pro	oduction:	289.3 LCY/hr			
Materials consistency	description	Loose stockpile 1.2	2		
Average push gradien					
Average site altitude:		feet			
Material weight:	1,600	lbs/LCY			
Weight description:	Top S	oil			
Job Condition Correc			Source		
	tor Skill:	0.750	(AVG.)		
Material con		1.200	(CAT HB)		
	method:	1.200	(CAT HB) (GEN.)		

Bulldozer Worksheet Cont'	Worksheet Cont'	orksheet Co	Bulldozer V
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Task # 02A

|--|

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: 0.8593

Adjusted unit production: 248.60 LCY/hr

Adjusted fleet production: 248.6 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.656/LCY

Total job time: 15.26 Hours Total job cost: \$2,489.09

REVEGETATION WORK

Task description:

Revegetate

Site: Bear Ranch Gravel Mine

Permit Action: Initial

Permit/Job#: M2013002

PROJECT IDENTIFICATION

Task #:

03A

State: Colorado

Abbreviation:

None

Date: User:

3/5/2013 **DMC**

County: Gunnison Filename:

M002-03a

Agency or organization name:

DRMS

FERTILIZING

Materials

Description Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$ 27 7 4 7 7	\$ 4 5 4
1000	То	tal Fertilizer	Materials Cost/Acre	\$0.00

Application

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

TILLING

Description	3,88	Cost /Acre
Chisel plowing {DMG}	A SHETS, AND SHE	\$88.58
Weed control spraying (MEANS 31 31 16.13 3100)	40年19年48	\$145.20
	Total Tilling Cost/Acre	\$233.78

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Ephraim	3.75	17.22	\$8.36
Orchardgrass - Paiute	3.75	46.49	\$8.10
Rye, Perennial Tetraploid - Tetra-Plus	5.00	28.35	\$8.65
Smooth Brome - Lincoln	5.00	16.64	\$6.65
Intermediate Wheatgrass - Oahe	5.00	10.67	\$10.80
Slender Wheatgrass - Native	2.50	9.13	\$5.63
Totals Seed Mix	25.00	128.50	\$48.19

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20

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MINISTER MARKACHUM	T T	
Total Seed Application Cost/Acre	\$88.20	
	1	

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
्रम्भ प्राच्यातः । तस		Fotal Mulch	Materials Cost/Acre	\$530.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
- I - Com		E41 12 E 454	-		\$
		Tota	lls Nursery Stoo	ck Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 10

Cost /Acre: \$966.06

Estimated Failure Rate: 25%

Cost /Acre*: \$966.06

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$9,660.60

Reseeding Job Cost: \$2,415.15

Total Job Cost: \$12,075.75

Job Hours: **10.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Mobilize reclamation crew/equipment

Site: Bear Ranch Gravel Mine

Permit Action: Initial

Permit/Job#: M2013002

PROJECT IDENTIFICATION

Task #:

04A

State:

Colorado

Abbreviation:

None

Date: User: 3/5/2013 **DMC**

County:

Gunnison

Filename:

M002-04a

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis:

l 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 D7R DS Series II LGP	34.57	\$44.66	\$117.55	1	\$162.21	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: \$290.47 \$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, 3/4 T.	\$15.66	1	\$15.66	\$15.66

Subtotals:

\$15.66

\$15.66

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

PAIONIA

25.00

miles

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$2,290.50

\$22.37

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.71	0.71
Return Time (Hours):	0.71	0.71
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.43	1.43

JOB TIME AND COST

Total job time:	4.86	Hours

Total job cost: \$2,312.87