

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Mackey Mine

Permit Action: 2019 Cost Estimate

Permit/Job#: M1984013

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/17/2019

County: Gilpin

Filename: M013-000

User: JLE

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolition of Portal Entry	DEMOLISH	1	1.00	\$256
002	Backfill Portal	MINESEAL	1	4.00	\$474
003	Grade .35 acre area	SITEMAINT ENANCE	1	2.00	\$264
004	Revegetating affected area	REVEGE	1	4.00	\$219
005	Mobilization	MOBILIZE	1	1.28	\$680
<b><u>SUBTOTALS:</u></b>				<b>12.28</b>	<b>\$1,893</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 6.14  
Profit: 10.00

Total = \$38

Total = \$20

Total = \$426

Total = \$189

TOTAL O & P = \$673

CONTRACT AMOUNT (direct + O & P) = \$2,566

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$109

Reclamation management and/or administration: 5.00

\$128

CONTINGENCY: 3.00

Total = \$57

TOTAL INDIRECT COST = \$968

**TOTAL BOND AMOUNT (direct + indirect) = \$2,860**

**DEMOLITION WORK**Task description: **Demolition of Portal Entry**Site: **Mackey Mine**Permit Action: 2019 Cost EstimatePermit/Job#: M1984013**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 9/17/2019County: GilpinFilename: M013-001User: JLEAgency or organization name: DRMS**UNIT COSTS****Location adjustment: 90.00 %**

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Wooden Portal Entry	10x10x16	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	1,600.00	CF	\$0.18	\$284.80

Job Hours: 1.00Subtotal  
(unadjusted): \$284.80Total Cost  
(adjusted for location): \$256.32

**SAFEGUARDING UNDERGROUND OPENINGS**Task description: **Backfill Portal**Site: **Mackey Mine** Permit Action: **2019 Cost Estimate** Permit/Job#: **M1984013****PROJECT IDENTIFICATION**

Task #: **002** State: **Colorado** Abbreviation: **None**  
Date: **9/17/2019** County: **Gilpin** Filename: **M013-002**  
User: **JLE**

Agency or organization name: **DRMS****UNIT COSTS**

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Portal	8'x8'x10'	Shaft closure - backfilling, Machine Backfill	23.70	CY	\$20.00	\$474.00

Job Hours: **4.00**Total Cost: **\$474.00**

SITE MAINTENANCETask description: Grade .35 acre areaSite: Mackey MinePermit Action: 2019 Cost EstimatePermit/Job#: M1984013PROJECT IDENTIFICATIONTask #: 003State: ColoradoAbbreviation: NoneDate: 9/17/2019County: GilpinFilename: M013-003User: JLEAgency or organization name: DRMSUNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Grade Affected Land	2.00	CAT 953D	2.00	EA	\$131.88	\$263.76

Job Hours: 2.00Total Cost: \$263.76

**REVEGETATION WORK**Task description: Revegetating affected areaSite: Mackey MinePermit Action: 2019 Cost EstimatePermit/Job#: M1984013**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 9/17/2019County: GilpinFilename: M013-004User: JLEAgency 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)	\$101.93
<b>Total Tilling Cost/Acre</b>	<b>\$101.93</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Thickspike Wheatgrass - Critana	10.00	35.35	\$68.75
Canada Bluegrass - Reubens	2.00	114.78	\$13.00
<b>Totals Seed Mix</b>	<b>12.00</b>	<b>150.14</b>	<b>\$81.75</b>

**Application**

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

<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>
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**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</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:	0.35	Cost /Acre:	\$450.90
Estimated Failure Rate:	50%	Cost /Acre*:	\$348.97
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$157.82</b>
Reseeding Job Cost:	<b>\$61.07</b>
Total Job Cost:	<b>\$219</b>
Job Hours:	<b>4.00</b>

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization**Site: **Mackey Mine**Permit Action: **2019 Cost Estimate**Permit/Job#: **M1984013****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **9/17/2019**County: **Gilpin**Filename: **M013-005**User: **JLE**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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

**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 953D	17.10	\$51.25	\$67.39	1	\$118.64	\$67.39	\$250.00

Subtotals: **\$118.64** **\$67.39** **\$250.00****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.	\$111.44	1	\$111.44	\$111.44

Subtotals: **\$111.44** **\$111.44**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>BLACK HAWK</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$630.14</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$49.53</u>
'** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.22</u>	<u>0.22</u>
Return Time (Hours):	<u>0.22</u>	<u>0.22</u>
Loading Time (Hours):	<u>0.10</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.10</u>	<u>NA</u>
Subtotals:	<u>0.64</u>	<u>0.44</u>

**JOB TIME AND COST**

Total job time:	<u>1.29</u>	Hours
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Total job cost:	<u>\$680</u>
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