COST SUMMARY WORK

	Lucky St Explorat	rike-Mineral ion	Ре	ermit Action:	2019-12-03	Permit/Job	o#: <u>P2019013</u>
<u>P</u>]		IDENTIFIC					
	Task #:	000	State:	Colorado		Abbreviation:	None
	Date:	12/3/2019	County:	Gunnison		Filename:	P013-000
		DMC					

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Seal underground openings	MINESEAL	1	40.00	\$15,275
02a	Seal Boreholes	BOREHOLE	1	24.00	\$7,497
03a	Final grading - pad areas, backfill trenches	LOADER	1	49.75	\$5,055
04a	Revegetate disturbed area	REVEGE	1	8.00	\$1,561
05a	Mobilize reclamation crew/equipment	MOBILIZE	1	4.00	\$880
		<u>SUBTO</u>	TALS:	125.75	\$30,268

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$611
Performance bond:	1.05	Total =	\$318
Job superintendent:	62.88	Total =	\$4,363
Profit:	10.00	Total =	\$3,027
		TOTAL O & P =	\$8,319
		CONTRACT AMOUNT (direct + $O \& P$) =	\$38,587

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		\$1,929
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	NDIRECT COST =	\$10,248
TOTAL BO	ND AMOUNT (d	lirect + indirect) =	\$40,516

SAFEGUARDING UNDERGROUND OPENINGS

,	Task description:	Seal underground openings	6		
Site:	Lucky Strike-Mineral Exploration	Permit Action:	2019-12-03	Permit/	Job#: <u>P2019013</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>×</u>			
Task ‡ Date Use	e: 12/3/2019	State: Colorado County: Gunnison		Abbreviation: Filename:	None P013-01a
	Agency or organiza	tion name: DRMS			

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Adit	8' x 8' x 8'	Adit closure - grated door	1.00	EA	\$3,898.80	\$3,898.80
		(per opening)				
Shaft	5' x 5' x 5'	Shaft closure - grate (per	1.00	EA	\$11,376.00	\$11,376.00
		opening)				

Job Hours: 40.00

Total Cost: \$15,274.80

BOREHOLE SEALING WORK

L	ucky Strike-Mineral	Ι	Permit Action:			
Site: <u>F</u>	xploration			2019-12-03	Permit	/Job#: <u>P2019013</u>
ROJEC	<u>I IDENTIFICATIO</u>	N				
Task #:	02A	State:	Colorado		Abbreviation:	None

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Boreholes (3)	Portland cement grout - 4 in. (labor, equip, materials)	4	500	1,500.00	LF	\$5.00	\$7,497.00

 Job Hours:
 24.00
 Total Cost:
 \$7,497.00

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WHEEL LOADER - LOAD AND CARRY WORK

Lucky Strike-Mineral Exploration	Permit Action	: 2019-12-03		Permit/Jo	b#: <u>P2019013</u>
ROJECT IDENTIFICA	TION				
Task #: 03A	State:Colorado		Abb	reviation:	None
Date: 12/3/2019 User: DMC	County: <u>Gunnisor</u>	1]	Filename:	P013-03a
Agency or organiza	tion name: DRMS				
IOURLY EQUIPMENT	COST				
Basic Machine: CA	AT 450E		Horsepower:		101
	DPS Cab		Shift Basis:		per day
			Data Source:		CRG)
Cost Breakdown:					
		Utilization %			
Ownership Cost/Hou	r: \$29.73	NA			
Operating Cost/Hou		100			
Operator Cost/Hou	-	NA			
Total Unit Cost/Hou	r: \$101.60				
Total Fleet Cost/Hou	ır: <u>\$101.60</u>				
MATERIAL QUANTITI	ES				
		0 11 0	. 1.000		
Initial volume: <u>5,000</u>		Swell fac	tor: <u>1.000</u>		
Loose volume:	5,000 LCY				
Loose volume: Source of es	5,000 LCY timated volume: Division	of Reclamation,		ety	
Loose volume: Source of es	5,000 LCY	of Reclamation,		ety	
Loose volume: Source of es Source of estima	5,000LCYtimated volume:Divisiortited swell factor:Cat Han	of Reclamation,		ety	
Loose volume: Source of es Source of estima	5,000 LCY timated volume: Divisior tted swell factor: Cat Han N Division	n of Reclamation, dbook	Mining & Saf	ety	
Loose volume: Source of es	5,000LCYtimated volume:Divisiortited swell factor:Cat Han	n of Reclamation, dbook Cycle Time (loa	Mining & Saf		minutes
Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time:	5,000 LCY timated volume: Divisior ted swell factor: Cat Han <u>N</u> Unadjusted Basic	n of Reclamation, dbook Cycle Time (loa	Mining & Saf d, dump, neuver):	0.475	
Loose volume: Source of es Source of estima OURLY PRODUCTIO oader Cycle Time: Cycle Time Factors	5,000 LCY timated volume: Divisior ited swell factor: Cat Han <u>N</u> Unadjusted Basic	n of Reclamation, dbook Cycle Time (loa	Mining & Saf d, dump, neuver): Facto	0.475 or (min.)	Source
Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time: Cycle Time Factors Material:	5,000 LCY timated volume: Divisior ated swell factor: Cat Han N Unadjusted Basic Mixed material 0.02	n of Reclamation, dbook Cycle Time (loa ma	Mining & Saf d, dump, neuver): Facto 0	0.475 or (min.) .020	Source (Cat HB)
Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time: Cycle Time Factors Material: Stockpile:	5,000 LCY timated volume: Division tted swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00	Mining & Saf d, dump, .neuver): Facto 0 0	0.475 or (min.) .020 .000	Source (Cat HB) (Cat HB)
Loose volume: Source of es Source of estima HOURLY PRODUCTIO Material: Stockpile: Truck Ownership:	5,000 LCY timated volume: Divisior ited swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not No adjustment - factor not	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00	Mining & Saf d, dump, .neuver): Facto 0 0 0	0.475 or (min.) .020 .000 .000	Source (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of es Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	5,000 LCY timated volume: Divisior ited swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00	Mining & Saf	0.475 or (min.) .020 .000 .000 .040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of es Source of estima HOURLY PRODUCTIO Material: Stockpile: Truck Ownership:	5,000 LCY timated volume: Divisior ited swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Division	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4	Mining & Saf	0.475 or (min.) .020 .000 .000	Source (Cat HB) (Cat HB) (Cat HB)
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Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	5,000 LCY timated volume: Divisior ited swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyc	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn	Mining & Saf d, dump, neuver): Facto 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.475 or (min.) .020 .000 .040 .000 .060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of est Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	5,000 LCY timated volume: Divisior tted swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyo Adjust Adjust	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn	Mining & Saf d, dump, neuver): Facto 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.475 or (min.) .020 .000 .040 .000 .060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	5,000 LCY timated volume: Divisior attend swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyo Adjust Onditions	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn ed Basic Cycle T	Mining & Saf	0.475 or (min.) .020 .000 .000 .040 .000 .060 .535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of es Source of estima IOURLY PRODUCTIO oader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Colling Resistance – Road Contemport Haul:	5,000 LCY timated volume: Divisior at Han Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyc Adjust Adjust Soft, rutted dirt, no maintena Cat Han	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn ed Basic Cycle T	Mining & Saf	0.475 or (min.) .020 .000 .000 .040 .000 .060 .535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Colling Resistance – Road Constant Haul: Return:	5,000 LCY timated volume: Divisior attend swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyo Adjust Onditions	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn ed Basic Cycle T	Mining & Saf	0.475 or (min.) .020 .000 .000 .040 .000 .060 .535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of es Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Colling Resistance – Road Contemport Haul:	5,000 LCY timated volume: Divisior at Han Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyc Adjust Adjust Soft, rutted dirt, no maintena Cat Han	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn ed Basic Cycle T	Mining & Saf	0.475 or (min.) .020 .000 .000 .040 .000 .060 .535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of est Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Colling Resistance – Road Constant Haul: Return: Haul and Return Time	5,000 LCY timated volume: Divisior ited swell factor: Cat Han N Unadjusted Basic Mixed material 0.02 No adjustment - factor not No adjustment - factor not Inconsistent operation 0.0 Nominal target 0.00 Net Cyo Adjust Adjust Soft, rutted dirt, no maintena Soft, rutted dirt, no maintena	n of Reclamation, dbook Cycle Time (loa ma t applicable 0.00 t applicable 0.00 4 cle Time Adjustn ed Basic Cycle T ance or water, 4"	Mining & Saf	0.475 or (min.) .020 .000 .000 .040 .000 .060 .535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Loader Worksheet Con	t'd]	Fask # 03A			Page 2 of 2
Haul Route: Return Route:	25 25	0.00 0.00	8.00 8.00	8.00 8.00	0.0238 0.0238	(Cat HB) (Cat HB)
				ravel Time: Cycle Time:	0.0476 0.5826	minutes minutes
Load Bucket Capacity						
Rated Capac Bucket Fill Fac Adjusted Capac	otor: 0.8	Blas	Y (heaped) sted rock - avg. Y	blasted (75 - 9	90%) 0.825	
Job Condition Correction Site Altitude: <u>9200</u> feet						
Altitude Adj Job Efficiency Net Correction	0.83	(CA (1 sh	ource AT HB) ift/day) iplier			
	nadjusted Hour Adjusted Hour Adjusted Hourl	ly Unit Produc	tion: 100	.50 LCY	/Hour /Hour /Hour	
JOB TIME AND CO	<u>DST</u>					
Fleet size:	L	oader(s)	Total job	time:	49.75	Hours
Unit cost:	\$1.011 /L	.CY	Total job	cost:	\$5,055	_

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REVEGETATION WORK

: _	Lucky St Explorat	rike-Mineral ion	Pe	rmit Action:	2019-12-03	Permit/Jol	b#: <u>P2019013</u>
PR	<u>ROJECT</u>	IDENTIFIC	CATION				
	T1- 4.	04A	State:	Colorado		Abbreviation:	None
	Task #:						
	Task #: Date:	12/3/2019	County:	Gunnison		Filename:	P013-04a

FERTILIZING

Materials Units / Acre Unit Cost / Unit Cost /Acre Image: I

Application

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

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$193.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.60	9.79	\$8.24
Indian Ricegrass - Native	2.40	7.77	\$15.60
Thickspike Wheatgrass - Critana	4.00	14.14	\$27.50
Western Wheatgrass - Native	12.80	32.32	\$76.80
Totals Seed Mix	19.80	64.03	\$128.14

Application

Broadcast seeding [DMG]

\$267.22

Total Seed Application Cost/Acre\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				\$590.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
	Total Mulch Application Cost/Acre	\$70.17

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:	1	Cost /Acre:	\$1,249.13	
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,249.13	
*Selected Replanting Work Items:	TILLING, SEEDI	NG, MULCHING		
Initial Job Cost: \$1,249.13				

Reseeding Job Cost:	\$312.28
Total Job Cost:	\$1,561
Job Hours:	8.00

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EQUIPMENT MOBILIZATION/DEMOBILIZATION

Mobilize reclamation crew/equipment							
Lucky Strike	-Mineral	Permit .		-12-03	1	Permit/Job#: <u>P2</u>	019013
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 05. Date: 12. User: DM	/3/2019		lorado nnison			eviation: <u>None</u> lename: <u>P013-</u>	05a
Agency	or organization	n name: DRMS					
EQUIPMENT	FRANSPOR	T RIG COST					
				C	Shift ba ost Data Sour		
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH		CK TRACTO (2ND HALF,	DR, 6X4, DIESEL 2006)	POWERED,
Truc	k Trailer Desc	ription: Gl		DING GOO		ROP DECK EQUI	IPMENT
Cost Breakdown:						(2 1001)	
Available Rig C		0-25 Tons	26-50 Tons		Tons		
	o Cost/Hour:	\$17.20	\$29.63		8.69		
	g Cost/Hour:	\$26.56	\$47.02		5.69		
	r Cost/Hour:	\$23.63	\$23.63		3.63		
	r Cost/Hour: t Cost/Hour:	\$0.00	\$23.53		3.53		
I otal Uni	t Cost/Hour:	\$67.39	\$123.81	\$12	1.54		
NON ROADABLE EQUIPMENT:							
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
1	(TONS)		t		fleet		
CAT 450E	9.80	\$29.73	\$67.39	1	\$97.12	\$67.39	\$250.00
				Subtotals:	\$97.12	\$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, 1 T. Crew	\$20.93	1	\$20.93	\$20.93
		Subtotals:	\$20.93	\$20.93

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	GUNNISON 14.00 28.00	miles
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$858.75	1
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$20.93	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.00	1.00

JOB TIME AND COST

Total job time: 4.00 Hours

Total job cost: \$880