

May 24, 2022

James Blair Bureau of Land Management Tres Rios Field Office 29211 HWY 184 Dolores, CO 81323

Re: Klondike Basin Exploratory Drilling Project, File No. P-2022-005, Notice of Intent to Conduct Prospecting Operations (NOI), Request for Concurrence

Dear Mr. Blair,

On April 28, 2022 the Division of Reclamation, Mining and Safety received the above listed application for the Klondike Basin Exploratory Drilling Project Notice of Intent to Conduct Prospecting Operations (NOI) located on Bureau of Land Management Lands (BLM) within San Miguel County. During the Division's technical Adequacy Review period a Reclamation Cost Estimate was performed. Based on the details of the project, Division Staff has estimated the total Reclamation Cost to ensure reclamation of all affected lands at <u>\$19,060.00</u>. The Reclamation Cost Estimate Worksheets are enclosed. Per the Memorandum of Understanding, please review these calculations and provide documentation of concurrence for the Financial Warranty amount.

Upon receiving concurrence, the calculation will be provided to the applicant so they may submit the appropriate Financial Warranty for the site. Please note the application will not be granted the final Authorization to Proceed from our office until all necessary permits are also obtained from the BLM and copies are provided to the Division. If you have any questions please feel free to contact me at the Division's Grand Junction Field Office, by phone at 303-866-3567 Ext. 8187 or by email at lucas.west@state.co.us.

Sincerely,

Lucas West Environmental Protection Specialist Division of Reclamation, Mining and Safety

Encl: Reclamation Cost Estimate Worksheets

Ec: Gabriel Sweet, Big Rock Exploration LLC.



COST SUMMARY WORK

	ndike Basin Explo lling Project	ratory Pe	rmit Action: New App	Permit/Job	o#: P2022005
<u>PROJ</u>	ECT IDENTIFI	CATION			
Ta	sk #: 000	State:	Colorado	Abbreviation:	None
1 4.		Country	San Miguel	Filename:	P005-000
	Date: 5/24/2022	County:	San Miguei	i nonume.	1000 000

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	P & A Dill Hole (Holes Reclaimed before next is drilled)	BOREHOLE	1	8.00	\$3,952
002	Regrade 14 Drill Pads	DOZER	1	0.83	\$153
003	Reclaim 5700 LN FT of New Roads	DOZER	1	13.03	\$2,387
004	Rip Regraded Areas	RIPPER	1	3.26	\$617
005	Revegetate Affected Lands	REVEGE	1	8.00	\$3,693
006	Secondary seeding	REVEGE	1	6.00	\$1,770
007	Mobilization	MOBILIZE	1	7.42	\$2,000
		<u>SUBTO</u>	TALS:	46.54	\$14,572

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$294
Performance bond:	1.05	Total =	\$153
Job superintendent:	23.27	Total =	\$1,676
Profit:	10.00	Total =	\$1,457
		TOTAL O & P =	\$3,581
		CONTRACT AMOUNT (direct + O & P) = $($	\$18,153

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 0.00 5.00	Total = Total =	\$0 \$0 \$908
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$4,488
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$19,060

BOREHOLE SEALING WORK

	londike Basin Exploratory	,	Permit Action:			
Site: D	rilling Project			New App	Permit	/Job#: P2022005
OJEC	IDENTIFICATION					
Task #:	001	State:	Colorado		Abbreviation:	None
Task #: Date:	001 5/24/2022	State: County:	Colorado San Miguel		Abbreviation: Filename:	None P005-001

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Bentonite Seal	Bentonite seal - 4 in. (labor, equip, materials)	3.75	670	670.00	LF	\$5.65	\$3,785.50
Concrete Seal (top 30')	Portland cement grout - 4 in. (labor, equip, materials)	3.75	30	30.00	LF	\$5.55	\$166.50

 Job Hours:
 8.00
 Total Cost:
 \$3,952.00

BULLDOZER WORK

	ade 14 Drill Pads			
Klondike Basin Exploratory Drilling Project	Permit Action:	New App	Permit/Jo	b#: <u>P202200</u> :
PROJECT IDENTIFICATIO	<u>DN</u>			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 5/24/2022	County: San Miguel		Filename:	P005-002
User: LJW				
Agency or organization	name: DRMS			
HOURLY EQUIPMENT CO	<u>ST</u>			
Basic Machine: Cat D6T L	GP			
Horsepower: 200		_		
Blade Type: Straight		_		
Attachment: <u>3-shank rip</u>	per	_		
Shift Basis: 1 per day		-		
Data Source: (CRG)		_		
Cost Breakdown:		*****		
Our angle Cost/II	Ø	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$66.27 \$66.34	<u>NA</u> 100		
Ripper own.				
Cost/Hour:	\$9.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANTITIESInitial Volume:135Swell factor:1.000Loose volume:135 LCY				
Source of estimated volume: Source of estimated swell factor:	14 60x60 pads, 1ft dee Cat Handbook	p/27=133		
nuctor.				
HOURLY PRODUCTION				
Average push distance:	50 feet			
Unadjusted hourly production:	444.6 LCY/hr			
Materials consistency description	n: Loose stockpile 1.2			
Average push 0 %				
gradient:				
Average site altitude: 6,800	feet			
Material weight: 3,300	lbs/LCY			
Weight description: Decor	mposed rock - 75% Rock,	25% Earth		
		Source		
ob Condition Correction Factor		Source		

Task # 002

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3645

Adjusted unit production:	162.06 LCY/hr
Adjusted fleet production:	162.06 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.131/LCY

0.83 Hours
\$153

BULLDOZER WORK

Drilling Project	oratory	Permit Action:	New App	Permit/Job	o#: <u>P2022005</u>
ROJECT IDENTIFI	CATION				
Task #: 003 Date: 5/24/2022 User: LJW	Sta			Abbreviation: Filename:	None P005-003
Agency or organ	ization name:	DRMS			
IOURLY EQUIPMEN	NT COST				
Basic Machine: Cat Horsepower: 200	D6T LGP				
Attachment: 3-sh	hank ripper				
Shift Basis: 1 pe Data Source: (CR	er day RG)				
Cost Breakdown:					
Ownership Cost/Hour:		\$66.27	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$66.34	100		
Ripper own. Cost/Hour:		\$9.32	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$183.23 \$183.23				
Total Fleet Cost/Hour: Initial Volume: Swell factor: Loose volume: 2,11	\$183.23 THES 1 0 1 LCY				
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 2,11 Swell factor: 1.000	\$183.23 TIES 1 0 1 LCY me:5700	Ft of Road, 1 ft de landbook	eep, 10ft W/ 27		
Total Fleet Cost/Hour: Initial Volume: 2,11 Swell factor: 1.000 Loose volume: 2,11 Source of estimated volu Source of estimated swel	\$183.23 TIES 1 0 1 LCY me: 5700 1 Cat F		 eep, 10ft W/ 27		
Total Fleet Cost/Hour: Initial Volume: 2,11 Swell factor: 1.000 Loose volume: 2,11 Source of estimated volu swel factor: 1.000	\$183.23 TIES 1 0 1 LCY me: 5700 1 Cat F	landbook	 eep, 10ft W/ 27		
Total Fleet Cost/Hour: Initial Volume: 2,11 Swell factor: 1.000 Loose volume: 2,11 Source of estimated volu 2,11 Source of estimated volu swel factor: 1.000 HOURLY PRODUCT 1.000 Average push distance: 1.001 Unadjusted hourly 1.001	\$183.23 TIES 1 0 1 LCY me: 5700 1 LCY me: 5700 Cat H ION 50 feet 444.6 L	landbook	 eep, 10ft W/ 27		
Total Fleet Cost/Hour: Initial Volume: 2,11 Swell factor: 1.000 Loose volume: 2,11 Source of estimated volu 2,11 Source of estimated volu Source of estimated swel factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency des Average push Interials consistency des	\$183.23 TIES 1 0 1 LCY me: 5700 1 LCY me: 5700 Cat H ION 50 feet 444.6 L	Iandbook CY/hr	 eep, 10ft W/ 27		
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Total Fleet Cost/Hour: Initial Volume: 2,11 Swell factor: 1.000 Loose volume: 2,11 Source of estimated volu 2,11 Source of estimated volu 2,11 Source of estimated volu Source of estimated swelfactor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency des Average push gradient: Average site altitude:	\$183.23 TIES 1 0 1 LCY me: 5700 1 LCY me: 5700 Cat H 50 feet 444.6 L scription: Lo 0 % 6,800 feet 3,300 lbs/LCY	Iandbook CY/hr ose stockpile 1.2			

Task # 003

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3645

Adjusted unit production:	162.06 LCY/hr
Adjusted fleet production:	162.06 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.131/LCY

Total job time:	13.03 Hours
Total job cost:	\$2,387

BULLDOZER RIPPING WORK

Task #: 004 State: Colorado Abbreviation: None Date: 5/24/2022 County: San Miguel Filename: P005 User: LJW	
Date: 5/24/2022 County: San Miguel Filename: P005 Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D6T LGP Horsepower: 200 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day Operating Cost/Hour: \$66.27 NA NA Operating Cost/Hour: \$66.27 NA (CRG) Operating Cost/Hour: \$66.27 NA (CRG) Ripper Ownership Cost/Hour: \$66.23 NA (CRG) Operator Cost/Hour: \$5.93 100 (OPerator Cost/Hour: \$189.16 Total Unit Cost/Hour: \$189.16 Selected estimating method: Area Alternate Methods: Selected estimating method: I.210 Cource of estimated quantity: Ripping as needed, assumed 1/2 disturbed area HOURLY PRODUCTION Seismic: Seismic: Seismic Velocity: NA feet/second Arearge Ripping Depth: 1.64 feet/pass Average Ripping Width: 6.58 feet/pass Average Ripping Width: 6.58 feet/	
User: <u>LJW</u> Agency or organization name: <u>DRMS</u> HOURLY EQUIPMENT COST Basic Machine: <u>Cat D6T LGP</u> Nipper Attachment: <u>3-Shank Ripper</u> Shift Basis: <u>1 per day</u> Data Source: <u>(CRG)</u> Cost Breakdown: Ownership Cost/Hour: \$66.27 NA Operating Cost/Hour: \$66.27 NA Operating Cost/Hour: \$66.34 100 Ripper Ownership Cost/Hour: \$66.34 100 Ripper Ownership Cost/Hour: \$59.32 NA Ripper Operating Cost/Hour: \$59.32 NA Ripper Operating Cost/Hour: \$59.32 NA Ripper Operating Cost/Hour: \$189.16 Total Uni Cost/Hour: \$189.16 Total Uni Cost/Hour: \$189.16 MATERIAL QUANTITIES Selected estimating method: <u>Area</u> Alternate Methods: C: NA c: NA BCY NA at: 1.50 acres Rip Depth (ft): 0.50 Volume: <u>1,210</u> Source of estimated quantity: Ripping as needed, assumed 1/2 disturbed area HOURLY PRODUCTION Seismic:	-004
Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D6T LGP Horsepower: 200 Ripper Attachment: 3-Shank Ripper Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$66.27 NA Operating Cost/Hour: \$66.34 100 Ripper Ownership Cost/Hour: \$9.32 NA Ripper Ownership Cost/Hour: \$55.93 100 Operator Cost/Hour: \$51.93 100 Operator Cost/Hour: \$51.93 100 Operator Cost/Hour: \$189.16 Total Unit Cost/Hour: \$189.16 Selected estimating method: Area Atternate Methods: C: NA Bark Volume: MATERIAL QUANTITIES Source of estimated quantity: Rip Depth (ft): 0.50 Volume: 1,210 Source of estimated quantity: Ripping as needed, assumed 1/2 disturbed area HOURLY PRODUCTION Seismic: NA feet/second Area: Average Ripping Depth: 1.64 feet/pass Average Ripping Length: 50.00 feet/pass feet/pass Average Ripping Length: </th <th></th>	
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Average Dozer Speed:88.00feet/minuteAverage Maneuver Time:0.25minutes/pass	
Average Maneuver Time: 0.25 minutes/pass	
Draduction per unit areas 0.554 acres/hour	
acres/nour	
Job Condition Correction Factors	
Unadjusted Hourly Unit Production: 0.554 Acres/hr	
Site Altitude: 6,800 feet	
Altitude Adj: 1.00 (CAT HB)	
Job Efficiency:0.83(1 shift/day)	
Net Correction: 0.83 multiplier	
Adjusted Hourly Unit Production: 0.46 Acres/hr	
Adjusted Hourly Fleet Production: 0.46 Acres/hr	
JOB TIME AND COST	

CIRCES Cost Estimating Software

Unit cost: \$411.473	B Per acre
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Total job cost:

\$617

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REVEGETATION WORK

Klondike Basin Exploratory Drilling Project		eory Pe	rmit Action: New App	Permit/Jo	ob#: P2022005
<u>ROJECT</u>	IDENTIFICA	<u>TION</u>			
ROJECT Task #:	IDENTIFICA 005	TION State:	Colorado	Abbreviation:	None
			Colorado San Miguel	Abbreviation: Filename:	

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
Blue Grama - Native	0.96	15.67	\$13.18
Indian Ricegrass - Native	7.42	24.02	\$48.23
Galleta	4.94	18.03	\$110.41
Western Wheatgrass - Arriba	5.00	12.63	\$32.50
Needle and Thread	5.20	13.73	\$217.62
Saltbush, Four Wing	0.50	0.69	\$6.25
Winter Fat	0.50	1.27	\$10.25
Basin Wildrye - Trailhead	2.06	8.37	\$31.74

	Totals Seed Mix	26.58	94.41	\$470.18
Application				

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

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	* • • •
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 Stoc	ek Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	60%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$2,308.06			
Reseeding Job Cost:	\$1,384.84		_	
Total Job Cost:	\$3,693		_	
Job Hours:	8.00		_	

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REVEGETATION WORK

r	Task descrip	otion:	Secondary seedi	ng		
Site:		e Basin Explo Project	ratory Per	rmit Action: New App	Permit/Job	o#: P2022005
Р	ROJECT	IDENTIFIC	CATION			
	Task #:	006	State:	Colorado	Abbreviation:	None

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
Blue Grama - Native	0.96	15.67	\$13.18
Indian Ricegrass - Native	7.42	24.02	\$48.23
Galleta	4.94	18.03	\$110.41
Western Wheatgrass - Arriba	5.00	12.63	\$32.50
Needle and Thread	5.20	13.73	\$217.62
Saltbush, Four Wing	0.50	0.69	\$6.25
Winter Fat	0.50	1.27	\$10.25
Basin Wildrye - Trailhead	2.06	8.37	\$31.74

	Totals Seed Mix	26.58	94.41	\$470.18
Application				

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

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	40.00
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 Stoc	ek Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	60%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$1,106.10			
Reseeding Job Cost:	\$663.66			
Total Job Cost:	\$1,770			
Job Hours:	6.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descr	iption:	Mobilizatio	on					
Klondik : Drilling	ce Basin Explor Project	atory	Permit	Action: New	App]	Permit/Job#: <u>P2</u>	2022005
PROJECT	IDENTIFIC	ATION						
Task #: Date: User:	5/24/2022			lorado n Miguel			eviation: None lename: P005-	
A	gency or organiz	ation name:	DRMS					
EQUIPMI	ENT TRANSF	ORT RIG	COST					
	Truck Tractor	Description:	GENE	RIC ON-HIGH	WAY TRU	Shift ba Cost Data Sour JCK TRACTO (2ND HALF,	rce: $CRG Da$	ta
	Truck Trailer	Description:	G		DING GOO		ROP DECK EQU	IPMENT
Cost Breakd	lown:							
Available	Rig Capacities	0-25	Tons	26-50 Tons	51-	+ Tons		
	nership Cost/Ho		1.28	\$37.94	\$4	47.67		
Op	erating Cost/Ho	ur: \$2	6.55	\$50.48	\$:	56.21		
	perator Cost/Ho		0.54	\$20.54		20.54		
	Helper Cost/Ho		0.00	\$23.53		23.53		
Tot	al Unit Cost/Ho	ur: \$6	8.37	\$132.49	\$1	47.95		
NON ROA	ADABLE EQU	JIPMENT:						
Machine	Weig	ht/ Ow	ner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Descriptio	-	Cos	t/hr/ unit	Cost/hr/uni	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat D6T L0		\$75.	59	\$132.49	1	\$208.08	\$132.49	\$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.	\$12.93 1		\$12.93	\$12.93
		Subtotals:	\$12.93	\$12.93

\$132.49

\$250.00

\$208.08

Subtotals:

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	NATURITA 16.00 45.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,990.66	
Total Roadable Mob/Demob Cost **	\$9.19	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	1.50	NA
Unloading Time (Hours):	1.50	NA
Subtotals:	3.71	0.71

JOB TIME AND COST

Total job time: 7.42 Hours

Total job cost: \$2,000