

1313 Sherman Street, Room 215 Denver, CO 80203

April 12, 2016

Jim Helmericks Glacier Gravel Products 995 Hwy 3 Durango, CO 81301

# Re: J & J Pit, Permit No. M-1985-001, Response to Request for Increase in Financial Warranty and Reclamation Cost Estimate, Updated SI02 and Calculations

Dear Mr. Helmericks,

On March 17, 2016 the Division received your response to the Reclamation Costs Update and Notice of Surety Increase (SI02) dated February 19, 2016. The response was addressed to the Colorado Division of Reclamation, Mining and Safety's Minerals Program Director Tony Waldron. The response identified concerns with the Financial Warranty Increase (SI02) and those concerns were addressed by myself and the Senior Environmental Protection Specialist and Grand Junction Field Office Supervisor Russ Means.

After reviewing the original permit file and the issued Financial Warranty Increase the seed mix included in SI02 was indeed incorrect. Please find the updated Task 005 in the enclosed documentation which has been updated to reflect the original NRCS seed mix in the approved permit. Another concern was the existence of the task to demolish the scale and scale house and dispose of these on site. This task has been removed as the original permit does reflect that both structures are to remain on site for future use.

The Division re-evaluated the regrading and establishment of slopes. Two different methods were calculated and the more economical of the two was chosen. However, it is the position of the Division not to revise the tasks that call for regrading the slopes to no steeper than 2H: 1V. On page 8 (item 13) and Page 12 (Exhibit E Reclamation Plan) of the original permit application, the Operator identifies that the side slopes of the affected area will be reclaimed to support wildlife habitat with a graveled area for future construction of a shop facility on the pit floor. The side slopes were identified to have a final grade of 1H: .5V or 1H: 1V as required. In an adequacy review of the application by the Division sent to the Operator on January 11, 1985 it was made clear that the Division would not recommend approval of slopes steeper than 2H: 1V. The response from the Operator, received on January 21, 1985, specifically item four, outlines that "This permit area is typically dry and is wildlife habitat. If I do not develop this as a commercial site, I will then reclaim it according to the reclamation plan...Slopes will be no steeper than 2:1." All supporting documents for this position are enclosed.



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The original approved permit indicates that the original approved permit indicates the post mining land use is **wildlife habitat**. Therefore, according to Rule 3.1.5 (1) of the Construction Materials Rule, "grading shall be carried on so as to create a final topography appropriate to the final land use selected in the reclamation plan," slopes steeper than 2H: 1V are not appropriate for a post mining land use of wildlife habitat. Furthermore, according to Rule 6.3.4 (1)(b) of the Construction Materials Rule, the reclamation plan must "specify the maximum gradient of reclaimed slopes. If the application proposes slopes steeper than 3:1, the Operator/Applicant must include a justification that supports steeper slopes for the proposed post-mining land use, and demonstrates compliance with the applicable performance standards of Section 3.1." Such justification was not included in the original permit file. Therefore, given the permit file documentation, surrounding undisturbed topography and regional characteristics, it is the position of this office that slopes steeper than 2H: 1V for a post mining land use of wildlife habitat was not approved.

The Operator may choose to change the post mining land use from its currently approved wildlife habitat to commercial / industrial. If the Operator chooses to change the post mining land use it shall be addressed through the Amendment process. Please note that for consideration of approval of slopes to reflect a final grade and slopes of 1H: .5V or 1H: 1V, the Operator will be required to submit a Geotechnical Stability Exhibit in compliance with Rule 6.5 of the Construction Materials Rule, and demonstrate that such slopes are and will remain stable once reclaimed and released.

After careful consideration and permit file review, staff calculations (revised copy enclosed) estimate the cost to reclaim the above referenced site to be \$27,670.00. This is an increase of \$19,212.42 increase over the <u>\$8,457.58</u> currently held by the Division. *Pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act for the Extraction of Construction Materials, adequate Financial Warranty must be submitted to the Division within 60 days of the Mailing of this letter. To avoid a possible violation of the conditions of the permit and possible enforcement action, the additional amount needs to be accepted by the Division's Denver Office on or before Friday June 10, 2016.* 

Please make arrangements with Barbra Coria at the Division of Reclamation Mining and Safety's Denver Office, Phone No. 303-866-3567, ext. 8148 for submittal of the financial warranty.

If the Operator chooses to appeal this decision a petition for a hearing before the Mined Land Reclamation Board the Office must be received in writing within **30** days of the date of this letter, pursuant to Rule 1.4.11(1)(b). Written notification must be received by the Division's Denver office on or before **Thursday May 12, 2016**. The item will then be scheduled to appear before the June meeting of the Mined Land Reclamation Board.



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Any questions regarding completion, execution and/ or submittal of the financial warranty should be directed to Barbra Coria. If you require additional information, have questions or concerns, please contact me or my immediate supervisor Russ Means at the DRMS Grand Junction Field Office.

Sincerely,

1Apr

Lucas West Environmental Protection Specialist Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203 Phone: (970)-243-6368

- Enclosure: Revised Financial Warranty Cost Estimate Supporting Documents from Permit File
- Cc w/encl.: Tony Waldron, DRMS Minerals Program Director Russ Means, Senior Environmental Protection Specialist, GJFO Supervisor Barbra Coria, DRMS Bonding Specialist



# COST SUMMARY WORK

1	Fask descrip	otion:	Cost summary				
ite:	J & J Pit		Pe	rmit Action:	2015	Permit/Job	#: <u>M1985001</u>
<u>P</u>	ROJECT	<b>IDENTIFIC</b>	ATION				
	Task #:	000	State:	Colorado		Abbreviation:	None
	Date:	2/18/2016 11:46:31 AM	County:	La Plata		Filename:	M001-000
	User:	LJW					

# TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Cut and Fill East and South Highwalls to 2H:1V	DOZER	1	11.16	\$2,782.00
002	Move stockpile from above the East wall to pit floor	TRUCK1	1	8.39	\$4,956.00
003	Move remaining material from Pit Floor to North Highwall	LOADER	1	10.91	\$1,754.00
004	Spread material along north wall at 2H:1V	DOZER	1	16.93	\$4,221.00
005	Revegetate slopes with weed control and mulch	REVEGE	1	16.00	\$2,992.00
006	Mob/Demob	MOBILIZE	1	4.26	\$4,533.00
		<u>SUBTO</u>	DTALS:	67.65	\$21,238

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$429.01
Performance bond:	1.05	Total =	\$223.00
Job superintendent:	33.83	Total =	\$2,519.29
Profit:	10.00	Total =	\$2,123.80
		TOTAL O & P =	\$5,295.10
		CONTRACT AMOUNT (direct + $O \& P$ ) =	\$26,533.10

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	500.00	Total = Total =	500.00 \$0.00
Reclamation management and/or administration:	0.00		\$0.00
CONTINGENCY:	3.00	Total =	\$637.14
	TOTAL IN	DIRECT COST =	\$6,432.24
TOTAL BO	\$27,670.24		

### BULLDOZER WORK

: J & J Pit	Permit Action:	2015	Permit/Jo	b#: <u>M1985001</u>	
PROJECT IDENTIFICAT	ION				
Task #: 001	State: Colorado		Abbreviation:	None	
Date: 2/18/2016 9:58:33 AM	County: La Plata		Filename:	M001-001	
User: LJW					
Agency or organizatio	n name: DRMS				
HOURLY EQUIPMENT C	<u>OST</u>				
Basic Machine: Cat D9T	- 9SU				
Horsepower: 405					
Blade Type: Semi-Un	iversal				
Attachment: NA					
Shift Basis: 1 per day					
Data Source: (CRG)					
Cost Breakdown:					
Cost Divardo Hil.	1	Utilization %			
Ownership Cost/Hour:	\$75.12	NA			
Operating Cost/Hour:	\$135.36	100	( <u>11</u> )		
Ripper op. Cost/Hour:	\$0.00	0			
Operator Cost/Hour:	\$38.89	NA	0		
	<i><b>4</b>00.07</i>	INA			
	9.37 9.37	_			
Total Fleet Cost/Hour: <b>\$24</b> <b>MATERIAL QUANTITIES</b> Initial Volume: <u>7,326</u>	9.37	_			
Total Fleet Cost/Hour: \$24	9.37 <u>5</u>				
Total Fleet Cost/Hour: <b>\$24</b> <b>MATERIAL QUANTITIES</b> Initial Volume: 7,326 Swell factor: 1.115	9.37 <u>5</u>	, Mining & Safety			
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell	9.37	, Mining & Safety			
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell         factor:       1	9.37	, Mining & Safety			
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell         factor:       HOURLY PRODUCTION         Average push distance:       Unadjusted hourly	9.37 Division of Reclamation Cat Handbook 100 feet 1,243.2 LCY/hr				
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency description         Average push       0 %	9.37 Division of Reclamation Cat Handbook 100 feet 1,243.2 LCY/hr con:Compacted fill or emb				
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency description         Average push       0 %         gradient:       0 %	9.37 Division of Reclamation Cat Handbook 100 feet 1,243.2 LCY/hr con:Compacted fill or emb				
Total Fleet Cost/Hour:       \$24         MATERIAL QUANTITIES         Initial Volume:       7,326         Swell factor:       1.115         Loose volume:       8,168 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency description         Average push       0 %         gradient:       6,85	9.37 Division of Reclamation Cat Handbook 100 feet 1,243.2 LCY/hr on:Compacted fill or emb				
Total Fleet Cost/Hour:\$24MATERIAL QUANTITIESInitial Volume:Swell factor:1.115Loose volume:8,168 LCYSource of estimated volume:Source of estimated volume:Source of estimated swellfactor:HOURLY PRODUCTIONAverage push distance:Unadjusted hourlyproduction:Materials consistency descriptiAverage push0 %gradient:Average site altitude:6,85Material weight:2,10	9.37 Division of Reclamation Cat Handbook 100 feet 1,243.2 LCY/hr on: Compacted fill or emb				
Total Fleet Cost/Hour:\$24MATERIAL QUANTITIESInitial Volume:Swell factor:1.115Loose volume:8,168 LCYSource of estimated volume:Source of estimated volume:Source of estimated swellfactor:HOURLY PRODUCTIONAverage push distance:Unadjusted hourlyproduction:Materials consistency descriptiAverage push0 %gradient:Average site altitude:6,85Material weight:2,10	9.37 Division of Reclamation Cat Handbook <u>100 feet</u> 1,243.2 LCY/hr on: Compacted fill or emb <u>50 feet</u> 00 lbs/LCY th - Loam				

Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5889

Adjusted unit production:	732.12 LCY/hr	
Adjusted fleet production:	732.12 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.341/LCY

Total job time:	11.16 Hours
Total job cost:	\$2,782

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# TRUCK/LOADER TEAM WORK

Task description	: Move	stockpile from a	bove the East wa	ll to pit floor			
Site: J & J Pit		Permit Ac	ction: 2015		Permit/Job#	: M1985001	
PROJECT IDI	ENTIFICATION	<u>I</u>					
Task #: 00		State: Colo		Al		None	
	18/2016 W	County: La P	lata		Filename:	M001-002	
Agency	or organization na	me: DRMS					
HOURLY EQU	JIPMENT COS	T		Shift b	asis: <u>1 per day</u>		
			Equipment Descr	iption			
	Truck Loader Te		eneric 15-18 cy, 67				
			Cat 365C L 13'-7" Stick NA				
Su	pport Equipment -						
Dood	-L Maintenance – Mo	tor Grader: NA					
Koau		ater Truck: NA					
Cost Breakdown	: Truck/Lo	ader Team	Support	Equipment	Maint	enance Equipment	
	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck	
%Utilization-machine	: 100	100	NA	NA	NA	NA	
Ownership cost/hour	: \$19.20	\$94.13	NA	NA	NA	NA	
Operating cost/hour	: \$65.35	\$141.12	NA	NA	NA	NA	
Ripper op. cost/hour	: NA	\$0.00	NA	NA	NA	NA	
Operator cost/hour	: \$22.10	\$35.36	NA	NA	NA	NA	
Unit Subtotals	: \$106.65	\$270.61	NA	NA	NA	NA	
Number of Units	: 3	1	0	0	0	0	
Group Subtotals	: Work:	\$590.56	Support:	\$0.00	Main	it: \$0.00	

Total work team cost/hour: \$590.56

### **MATERIAL QUANTITIES**

Initial volume: <u>6,000</u>		CCY	Swell factor:	1.000	
Loose volume:	6,000	LCY			
	mated volume:	Division of	Reclamation, Mir	ning & Safety	
Source of estimate	ed swell factor:	Cat Handbo	ook		
Material	Purchase Cost:	\$0.00			
	Total Cost:	\$0.00			

# **HOURLY PRODUCTION**

### Truck Capacity: Truck Payload (we

Truck Payload (weight) Basi	<u>is:</u>		
Material weight:	2,100	Pounds/LCY	
Description:	Earth - Loam		
Rated Payload:	63,980	Pounds	
Payload Capacity:	30.47	LCY	

Truck Bed (volume) Basis:						
Struck Volume:	15.00	LCY				
Heaped Volume:	18.00	LCY				
Average Volume:	16.50	LCY				
Adjusted Volume:	18.00	LCY				
Final T	ruck Volume I	Based on Number of I	onder Dansen	15 10	LCY	
Loading Tool Capacity		Jased on Number of	LUauer Fasses.	15.18		
Douding Tool Cupacity			Buck	et Size Class: L	arge	
Rated Capacity:	6.900	LCY (heaped)	Duen			
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (10	0-120%) 1.100		
Adjusted Capacity:	7.590	LCY				
Job Condition Corrections:		Sit	e Altitude (ft.):	<u>6850</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	1	Number of Loading T	ool Passes Requ	ired to Fill	2	passes
Excavators and Front Shovels	• <u>•</u>		-	Truck:	2	
Machine Cycle Time vs.	Job Condition	n Rating: AVERA	GE			
Selected Value w		•				
Track Loaders – N	Aaterial Descri	iption:				
Cycle Time Elements (min.):						
Load: NA	М	aneuver: NA		Dump: 0.10	)	
	_			•		
Wheel and Track	Loaders - Una	djusted Basic Loader	• ·	ad, dump,	NA <sup>min</sup>	utes
Cycle Time Factors			1	Factor (min.)	Source	
Material:	NA			NA	(Cat HB)	
Stockpile:	NA			NA	(Cat HB)	
Truck Ownership:	NA			NA	(Cat HB)	
Operation:	NA			NA	(Cat HB)	
Dump Target:	NA			NA	(Cat HB)	
		Net Cycle Time	-	NA	minutes	
		Adjusted Loader	-	0.380	minutes	
		Net Load Tin	ne per Truck:	0.480	minutes	
<u> Fruck Cycle Time:</u>						
Truck Exchange Time:	0.50	Minutes	Adjusted f	for site altitude:	0.500	Minutes
Truck Load Time:	0.480	Minutes	Adjusted f	for site altitude:	0.480	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted f	for site altitude:	0.900	Minutes
Truck Travel (Haul & Return) maintained 2.0	<u>Time:</u>	Road Condition: <u>H</u>	ard, smooth, sta	bilized, surfaced,	watered,	

Task # 002

Haul Route Seg #	Haul D	istance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
50g #	(Ft)	Istance	Glade (76)	(%)	(%)	(fpm)	Time (min)	
1	1500.00	)	1.50	2.00	3.50	2394	0.754	
					Haul Time:	0.754	minutes	
Return Rou	ite:							
Seg #	Haul Di	istance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1500.00	)	-1.50	2.00	0.50	2972	0.538	
					Return Time:	0.538	minute	s
				Total True	ck Cycle Time:	3.172	minute	S
Loading Too	l unit							
Produ		929.39	LCY/Hour		Adjusted for jo	b efficiency:	771.39	_ LCY/Hour
ruck Unit Produ	iction	287.14	LCY/Hour		Adjusted for jo	b efficiency:	238.32	_ LCY/Hour
otimal No. of Tr	ucks:	3	Truck(s)		Selected Numb	er of Trucks:	3	
			Adjusted	l hourly truck	team productio	on: 714.	97 LCY/	Hour
			Adjusted single					
		А	Adjusted single djusted multiple					
JOB TIM	E AND							
JOB TIM Fleet s				e truck/loader			97 LCY/	Hour

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# WHEEL LOADER - LOAD AND CARRY WORK

: J&JPit	Permit Action:	2015	Permit/Jo	b#: M198500
PROJECT IDENTIFICA	TION			
Task #:         003           Date:         2/18/2016           User:         LJW	State:ColoradoCounty:La Plata		Abbreviation: Filename:	None M001-003
Agency or organization	tion name: DRMS			
HOURLY EQUIPMENT	COST			
	AT 980H		•	315
Attachment 1:	DPS Cab			CRG)
Cost Breakdown:				
Our partie Cost/Hou		Utilization %		
Ownership Cost/Hou Operating Cost/Hou		<u>NA</u> 100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou				
Total Fleet Cost/Hou	ır: \$160.68			
Total Fleet Cost/Hou				
MATERIAL QUANTITI	ES			
MATERIAL QUANTITI Initial volume:6,100	ES ) CCY	Swell factor: _	1.000	
MATERIAL QUANTITI Initial volume:6,100 Loose volume:	ES ) CCY 6,100 LCY	_		
MATERIAL QUANTITI Initial volume:6,100 Loose volume:	ES CCY 6,100 LCY timated volume: Division	of Reclamation, Minin		
MATERIAL QUANTITI	ES 6,100 CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand	of Reclamation, Minin		
MATERIAL QUANTITI	ES 6,100 CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand	of Reclamation, Minin		
MATERIAL QUANTITI	ES 6,100 CCY LCY timated volume: ted swell factor: Cat Hand N	of Reclamation, Minin	ng & Safety	minutes
MATERIAL QUANTITI Initial volume:6,100 Loose volume: Source of estima HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic (	of Reclamation, Minin Ibook Cycle Time (load, dum	ng & Safety p, 0.550 r): <u>0.550</u> Factor (min.)	minutes
MATERIAL QUANTITI Initial volume:6,100 Loose volume: Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand Unadjusted Basic ( Mixed material 0.02	of Reclamation, Minin Ibook Cycle Time (load, dum	ng & Safety np, 0.550 r): 0.550 Factor (min.) 0.020	Source (Cat HB)
MATERIAL QUANTITI Initial volume:6,100 Loose volume: Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile:	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic ( Mixed material 0.02 Dumped by truck 0.02	of Reclamation, Minin Ibook Cycle Time (load, dum maneuver	ng & Safety p, 0.550 r): <u>0.550</u> Factor (min.)	Source
MATERIAL QUANTITT Initial volume:6,100 Loose volume: Source of est Source of estima HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic ( Mixed material 0.02 Dumped by truck 0.02 Common ownership of truc 0.04	of Reclamation, Minin Ibook Cycle Time (load, dum maneuver	ng & Safety np, 0.550 r): 0.550 Factor (min.) 0.020	Source (Cat HB)
MATERIAL QUANTITT Initial volume:6,100 Loose volume: Source of est Source of estima HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ES 6,100 CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic ( Mixed material 0.02 Dumped by truck 0.02 Common ownership of truc 0.04 Constant operation -0.04	of Reclamation, Minin Ibook Cycle Time (load, dum maneuver	ng & Safety np, 0.550 r): 0.020 0.020 -0.040 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTITI Initial volume:6,100 Loose volume: Source of estima HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic ( Mixed material 0.02 Dumped by truck 0.02 Common ownership of truc 0.04 Constant operation -0.04 Nominal target 0.00	of Reclamation, Minin Ibook Cycle Time (load, dum maneuver cks and loaders -	ng & Safety np, 0.550 r): 0.550 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
MATERIAL QUANTITI Initial volume:6,100 Loose volume: Source of est Source of estima HOURLY PRODUCTION Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ES CCY 6,100 LCY timated volume: Division ted swell factor: Cat Hand N Unadjusted Basic ( Mixed material 0.02 Dumped by truck 0.02 Common ownership of truc 0.04 Constant operation -0.04 Nominal target 0.00 Net Cycl	of Reclamation, Minin Ibook Cycle Time (load, dum maneuver	ng & Safety np, 0.550 r): 0.020 0.020 -0.040 -0.040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)

Haul:Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Return:Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul and Return Time

Length	Grade Res.	Rolling	Total Res.	Travel Time	Source
(feet)	(%)	Res. (%)	(%)	(minutes)	

Loader	Worksheet	Cont'd
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Task # 003

Haul Route:	150	0.00	3.00	3.00	0.1160	(Cat HB)
Return Route:	150	0.00	3.00	3.00	0.1094	(Cat HB)
				ravel Time:	0.2254 <b>0.7354</b>	minutes minutes
Load Bucket Capacity						
Rated Capacity	y:7.50	LCY (he	eaped)			
Bucket Fill Facto	r: 1.100	Other - 1	ock/dirt mi	xtures (100-	120%) 1.100	
Adjusted Capacity	y: <b>8.25</b>	LCY				
Iob Condition Correction Site Altitude: <u>6850</u> feet	Factors					
		Source	•			
Altitude Adj:	1.00	(CAT H	B)			
Job Efficiency:	0.83	(1 shift/d	ay)			
Net Correction:	0.83	multiplie	r			
	djusted Hourly Ur				//Hour	
	djusted Hourly Ur		-		//Hour	
Ac	ljusted Hourly Fle	et Production:	558.	71 LCY	//Hour	
JOB TIME AND COS	<u>T</u>					
Fleet size:	Loader	(s)	Total job	time:	10.92	Hours

 Unit cost:
 \$0.288
 /LCY
 Total job cost:
 \$1,754

# BULLDOZER WORK

J & J Pit	Permit Action:	2015	Permit/Jo	b#: <u>M198500</u>
<u>PROJECT IDENTIFI</u>	CATION			
Task #: 004	State: Colorado		Abbreviation:	None
Date: 2/18/2016	County: La Plata		Filename:	M001-004
11:20:07 A	AM			
User: LJW				
Agency or organ	nization name: DRMS			
IOURLY EQUIPME	NT COST			
Basic Machine: Cat	t D9T - 9SU			
Horsepower: 405				
	mi-Universal			
Attachment: NA				
	ber day	<u>_</u> 7		
	RG)	-		
	/	<b>3</b> 0		
Cost Breakdown:	i i	T 1.11 .1 A		
Oumanahin Cast/II-	\$75.10	Utilization %		
Ownership Cost/Hour:	\$75.12	NA		
Operating Cost/Hour: Ripper op. Cost/Hour:	\$135.36	100		
	\$0.00	0		
Operator Cost/Hour:	\$38.89	NA		
Total unit Cost/Hour:	\$249.37			
Total Fleet Cost/Hour:	\$249.37			
Total Fleet Cost/Hour: <b>IATERIAL QUANTI</b> Initial Volume: <u>12,1</u> Swell factor: <u>1.00</u>	\$249.37 ITIES 48 00			
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1	\$249.37 ITIES 48 00 48 LCY			
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu	\$249.37 ITIES 48 0 48 LCY ume: Division of Reclamation	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       swell         Source of estimated swell       swell	\$249.37 ITIES 48 10 48 LCY Ime: Division of Reclamation	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu	\$249.37 ITIES 48 0 48 LCY ume: Division of Reclamation	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       swel         factor:       12,1	\$249.37 ITIES 48 0 48 LCY Ime: Division of Reclamation Il Cat Handbook	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       swell         Source of estimated swell       swell	\$249.37 ITIES 48 0 48 LCY Ime: Division of Reclamation Il Cat Handbook	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       swel         factor:       12,1	\$249.37 ITIES 48 0 48 LCY Ime: Division of Reclamation Il Cat Handbook	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       swell         Source of estimated volu       swell         factor:       100         Initial Volume:       12,1         Source of estimated volu       swell         Source of estimated swell       factor:         IOURLY PRODUCT       IOURLY PRODUCT	\$249.37 ITIES 48 0 48 LCY Ime: Division of Reclamation Il Cat Handbook ION	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       12,1         Source of estimated volu       swel         factor:       1000000000000000000000000000000000000	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         II       Cat Handbook         III       75 feet	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       12,1         Source of estimated volu       Source of estimated volu         Source of estimated swelfactor:       12,1         Initial Volume:       12,1         Source of estimated volu       Source of estimated swelfactor:         Initial Volume:       12,1         Source of estimated swelfactor:       Source of estimated swelfactor:         Initial Volume:       12,1         Source of estimated swelfactor:       Source of estimated swelfactor:         Initial Volume:       Initial Volume:         Initial Volume:       Initial Volume:	\$249.37           ITIES           48           0           48 LCY           ume:         Division of Reclamatic           11         Cat Handbook           ION           ION           10         75 feet           1,514.3 LCY/hr	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       12,1         Source of estimated volu       swelfactor:         Initial Volume:       12,1         Source of estimated volu       Source of estimated volu         Source of estimated swelfactor:       Swelfactor:         IOURLY PRODUCT       Average push distance:         Unadjusted hourly       Stance:	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         II       Cat Handbook         ION         105 feet         1,514.3 LCY/hr	on, Mining & Safety		
Total Fleet Cost/Hour: <b>IATERIAL QUANTI</b> Initial Volume: 12,1 Swell factor: 1.00 Loose volume: 12,1 Source of estimated volu Source of estimated volu Source of estimated swelf factor: <b>IOURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency det Average push	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         11       Cat Handbook         ION         ION         175 feet         1,514.3 LCY/hr	on, Mining & Safety		
Total Fleet Cost/Hour: Initial Volume: 12,1 Swell factor: 1.00 Loose volume: 12,1 Source of estimated volu Source of estimated volu Source of estimated swelf factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency dest Average push gradient:	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         11       Cat Handbook         ION         ION         75 feet         1,514.3 LCY/hr         escription:         Loose stockpile 1.2         0 %	on, Mining & Safety		
Total Fleet Cost/Hour: <b>IATERIAL QUANTI</b> Initial Volume: 12,1 Swell factor: 1.00 Loose volume: 12,1 Source of estimated volu Source of estimated volu Source of estimated swelf factor: <b>IOURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency det Average push	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         II       Cat Handbook         ION         ION         ION         25 feet         1,514.3 LCY/hr         escription:         Loose stockpile 1.2	on, Mining & Safety		
Total Fleet Cost/Hour: Initial Volume: 12,1 Swell factor: 1.00 Loose volume: 12,1 Source of estimated volu Source of estimated volu Source of estimated swelf factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency dest Average push gradient:	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         11       Cat Handbook         ION         ION         75 feet         1,514.3 LCY/hr         escription:         Loose stockpile 1.2         0 %	on, Mining & Safety		
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Total Fleet Cost/Hour: Initial Volume: 12,1 Swell factor: 1.00 Loose volume: 12,1 Source of estimated volu Source of estimated volu Source of estimated swelfactor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         II       Cat Handbook         ION         275 feet         1,514.3 LCY/hr         escription:       Loose stockpile 1.2         0 %       6,850 feet         2,900 lbs/LCY       Decomposed rock - 50% Rock,			
Total Fleet Cost/Hour:         Initial Volume:       12,1         Swell factor:       1.00         Loose volume:       12,1         Source of estimated volu       12,1         Source of estimated volu       Source of estimated swelfactor:         OURLY PRODUCT       Average push distance:         Jnadjusted hourly       Droduction:         Materials consistency de       Average push         Average site altitude:       Material weight:         Weight description:       Weight description:	\$249.37         ITIES         48         0         48 LCY         ume:       Division of Reclamatic         II       Cat Handbook         ION         275 feet         1,514.3 LCY/hr         escription:       Loose stockpile 1.2         0 %       6,850 feet         2,900 lbs/LCY       Decomposed rock - 50% Rock,			

Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(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: 0.4739

Adjusted unit production:	717.63 LCY/hr	
Adjusted fleet production:	717.63 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.347/LCY	
otal ich time:	16 02 Hours	

 Total job time:
 16.93 Hours

 Total job cost:
 \$4,221

### Page 1 of 2

# **REVEGETATION WORK**

ite: J&JP	it	Permit Action:	2015	Permit/Job	#: M1985001
<b>PROJECT</b>	<u>IDENTIFIC</u>	CATION			
Task #:	005	State: Colorado		Abbreviation:	None
Date:	8/31/2015	County: La Plata		Filename:	M001-005
	LJW				

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
184 S 089 S			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

### Application

Description	Cost /Acre
	\$
Total Fertilizer Ap	oplication Cost/Acre \$0.00

# **TILLING**

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$107.59
	Total Tilling Cost/Acre	\$107.59

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.80	5.83	\$12.15
Intermediate Wheatgrass - Oahe	2.00	4.27	\$4.38
Mahogany, Mountain	0.50	0.68	\$23.62
Western Wheatgrass - Barton	2.40	6.06	\$8.86
Needle and Thread	1.50	3.96	\$70.62
Totals Seed Mix	8.20	20.79	\$119.63

#### Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$434.00
	Total Seed Application Cost/Acro	
	<b>Total Seed Application Cost/Acre</b>	\$434.00

# **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
					\$
		Tot	als Nursery Stoo	lt Cost / A ore	\$0.00

### JOB TIME AND COST

No. of Acres:	3.5	Cost /Acre:	\$661.22
Estimated Failure Rate:	35%	Cost /Acre*:	\$553.63
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$2,314.27	
Reseeding Job Cost:	\$678.20	
Total Job Cost:	\$2,992	
Job Hours:	16.00	

### EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Мо	b/Demob					
: J&JPit		Permit	Action: _2015			Permit/Job#: <u>N</u>	v1985001
PROJECT IDEN	<u>TIFICATI</u>	ON					
Task #: 006		State: Co	olorado		Abbro	eviation: Non	e
Date: 4/12/	2016		Plata				)1-006
User: LJW							
Agency or	organizatior	n name: DRMS					
8,							
EQUIPMENT TH	RANSPOR	T RIG COST					
					Ch:A h		I
					Shift ba		
					Cost Data Sou		ala
Truck 1	<b>Fractor Desc</b>	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	OR, 6X4, DIESE	EL POWERED.
		1			(2ND HALF,		
Truck	Trailer Desc	ription: G	ENERIC FOLD			ROP DECK EQU	IIPMENT
					(25T, 50T, Al		
<u>Cost Breakdown:</u>							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownership (	Cost/Hour:	\$16.63	\$18.37	\$	22.33		
Operating C	Cost/Hour:	\$44.38	\$46.13	\$	50.07		
Operator O	Cost/Hour:	\$27.66	\$27.66	\$	27.66		
Helper C	Cost/Hour:	\$0.00	\$25.39	\$	25.39		
Total Unit C	Cost/Hour:	\$88.67	\$117.55	\$	125.45		
NON ROADABL	Е ЕОІЛРИ	TENT:					
					1		
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
	(TONS)		t		fleet		
Cat 365C L 13'-7"	77.56	\$94.13	\$125.45	1	\$219.58	\$125.45	\$500.00

Subtotals: \$588.97 \$368.45 \$1,000.00

\$168.82

\$200.57

\$117.55

\$125.45

\$250.00

\$250.00

### **ROADABLE EQUIPMENT:**

33.12

60.01

\$51.27

\$75.12

Stick CAT 980H

Cat D9T - 9SU

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$52.78	1	\$52.78	\$52.78
Generic 15-18 cy, 6x4	\$106.65	3	\$319.95	\$319.95
		Subtotals:	\$372.73	\$372.73

\$117.55

\$125.45

1

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	DURANGO	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	30.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$4,483.54	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$49.70	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.13	0.13

### JOB TIME AND COST

Total job time:	4.27	Hours

Total job cost: \_\_\_\_\_\_\$4,533



DEPARTMENT OF NATURAL RESOURCES David H. Getches, Executive Director

MINED LAND RECLAMATION DIVISION

DAVID C. SHELTON, Director

Richard D. Lamm Governor

January 8, 1985

Mr. Jim Helmericks Glacier Gravel Products 400 East 32nd Street Durango, Colorado 81301

Re: J & J Pit - File No. M-85-001

Dear Mr. Helmericks:

This is to inform you that our Division has received your permit application for the above captioned operation and the accompanying cover letter. I am assigning the review of this application to our reclamation specialist, Philip Saletta. You should be receiving a letter from him in the next few days informing you of the filing status of the application. Since I will be handling the possible violation concerning this site, I will respond to your cover letter that answers my letter of December 26, 1984.

Your first point concerns the need for a permit for this operation. I do not recall the details of our conversation of last March. However, typically, I do not make such decisions concerning the need for a permit. The usual procedure is to request that potential mining operator submit a letter describing his proposed activities, and our Division Director will either make a decision in the matter or schedule the question for a discussion item before the Board for their determination. The facts that the operation is on your property and that you do not directly charge for gravel (although, I note that you do charge for hauling the gravel) do not necessarily exempt the operation from being permitted. In fact, many such gravel removal operations have been required to be permitted.

The height of the highwall may indeed be less than the estimate made by our specialist. However, any such gravel highwall must be reduced in slope for final reclamation and cannot be considered to be stable over any period of time. The final status of this highwall will be resolved during the permitting process.

The other issue you mentioned concerning lack of runoff control, as well as other potential problems within the extraction area (such as lack of topsoil salvage and the need to perhaps include the haul road within the permit area), can also be resolved with an approved permit application for this site. Without an approved plan for this site, it is difficult to evaluate the severity of any potential problems due to your excavation. Thus, the identification of potential problems must be done by our field personnel. The approved permit can then resolve these problems.

423 Centennial Building, 1313 Sherman Street Denver, Colorado 80203 Tel. (803) 866-3567

Mr. Jim Helmericks

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The decision as to whether or not this excavation is an illegal mining operation or not will be made by the Mined Land Reclamation Board during the upcoming January 23-24, 1985 meeting. You have already been notified of this meeting and informed of your right to attend the meeting and give testimony to the Board. The permit application will be considered as a separate agenda item at this same, or a later, Board meeting.

Please feel free to call me or Mr. Saletta if you have any further questions.

Sincerely,

Mark S. Loye

Mark S. Loye Senior Reclamation Specialist

MSL/pjh

Doc. No. 6618

JINA HELLEPICKS	
DUPPNAGALC.	
RECEIVED	
JAN - 3 1985	
MINED LAND RECLAMATION DIVISION Colo. Dept. of Natural Resources	
DEPARTMENT OF NATURAL RESOURCES	
MINED LAND RECLAMATION DIVISION	
Richard D. Lamm Governor	
LIMITED IMPACT (110) AND MUTTER SPECIAL TEN-DAY (111) PERMIT 036 40	order
Application for Mining and Reclamation Permit, pursuant to C.R.S. 1973,	\$ 11500
et seq, as amended. $M-85-001$	54-52-101,
The following explanations cover Limited Impact applications (110's) an (Ten-Day Processing - 111's) applications. In the interest of efficien please check the appropriate box to indicate which type of application for. 111 permits may be issued only under special circumstances. Be seligible.	t processing, you are applying
LIMITED IMPACT OPERATIONS must disturb less than ten acres (i roads, stockpile areas and any other surface facilities) over mine, and must extract LESS THAN 70,000 tons of mineral, over combination thereof per calendar year. If the affected area greater than nine acres, be sure NOT to round this figure up the narratives or elsewhere.	the life of the burden or is some fraction
SPECIAL (ten-day processing) operations are any sand, gravel, aggregates operations which are to be operated for the sole p obtaining materials for highway, road, utility, or similar-ty under a Federal, State, county, city, town, or special distri- the contract calls for work to be commenced within a specific and which will affect ten acres or less (including all roads, and any other surface facilities).	urpose of pe construction ct contract where ally short time
INSTRUCTION: This application and all accompanying materials as outling submitted in duplicate. For further guidance, and inform Impact Operations, see Rule 3 and for Special Permits, see	ation for Limited
(Type or Print Clearly)	
1. Name of operation (Pit, mine or site name) JEJ PIT	
2. Name of Applicant/Uperator SINA HELMERICKS (Name to be used on penait) DBA. GLACIER GRAV	EL FRODUCTS
423 Centennial Building, 1313 Sherman Street Denver, Colcrado 80203 Tel. (3	121 866.2567
	1000.000

	·.
	-2-
<u></u>	
3.	Address and Phone Number of 400 E232ND Local Uffices DURANGO, COCO. 247-3204
4.	Address and Phone Number of SALLE
5.	Name and Phone Number of Person HELMERICKS Staff Memoers Snould Contact Z47-3204
ΰ.	Owner(s) of Record of Affected Land DINA ESHABON HELMERIC (surface area) (If more than 2, list below)
7.	Owner(s) of Substance to be Mined SIANESHARCNHECKERCE. (If more than 2, list below) SUEFACE & SUBSURFACE TO
ö.	Source of Legal Right-To-Enter (Indicate what type of proof is included in EXHIGIT G - lease, deed, notarized letter, etc.)
9.	Type of Mine and Substance to be Mined (Specify underground, open pit, quarry, etc. & substance(s) to be mined)
10.	General Location and Elevation (Miles & direction from nearest town & approximate site elevation) E/2, W/2, SW/4, SEC. BST 34/2 2. SWN.M.P.K.M ELEY. PIT 678 2 MILES SOUTH OF DUPAN
11.	County LA PLATA
12.	Acreage of Affected Lands (Total surface acreage to be SACRES included in permit)
13.	Application Fee (See applicable \$115.00 Rule to determine amount)

#### 14. Present Land Use (i.e., agricultural, industrial, etc.) WASTE LAND

15. Proposed Future Land Use SHOP AND STORAGE SITE (Goal of reclamation)

#### EXHIBIT A - Legal Description

The legal description must identify the affected land and be wholly adequate for field location of the property. It can be in the form of metes a bounds survey or a pescription by reference to township, range, and section, to at least the nearest quarter-quarter section. Where applicable, the street address or lot number(s) may be used.

-3-

#### EXHIBIT 8 - Mining Plan

This can be a general discussion of the methods, equipment, phases or stages of the operation and those areas of land affected by each. The plan should be correlated with the map and should snow where extraction will begin, and which direction, if any, it will proceed.

#### EXHIBIT C - Map

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This map should clearly define the permit boundaries and contain sufficient information to determine the location of the affected land on the ground and existing and proposed roads or access routes to be used in connection with the mining operation. All immediately adjacent landowners of record must be shown. The quarter section corner, section line, or any other locatable points should also be shown on this map.

#### EXHIBIT D - Wildlife, Water Resources, Vegetation and Soils Information

cach of the above-mentioned subjects must be addressed as outlined in the applicable Rule.

#### EXHIBIT E - Reclamation Plan

As with the mining plan, this should be a general discussion of the methods, equipment, phases or stayes of the reclamation process and those portions of land affected by each. If possible, the plan should be closely correlated with the map. If not, the narrative must be comprehensive enough to draw an accurate verbal picture of the expected appearance of the area after completion of reclamation.

#### EXHIBIT F - Proof of Compliance with Local Government Zoning

In accordance with 34-32-115(4)(e), the Board must make a finding that the operation will be in compliance with local zoning or subdivision regulations. You are not required to submit this information, but a sucmission would assist the Division's processing of the application. When the Division notifies the local government of the existence of this application, it will request information regarding compliance with applicable local law. It is intended that operators may concurrently dome into compliance with local requirements at the same time the Division is processing this application. Information regarding the status with local government will be nelpful.

#### EAHLBIT G - Source of Legal Right-to-Enter

This could be a copy of the lease, deed, abstract of title, or current tax receipt. An acceptable alternative would be a statement acknowledged by a Notary Public that the operator has the legal right to enter the mine.

#### <u>zλHIBIT H - Reclamation Costs</u>

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For a 110 permit, if the operator requests financial warranty to be less than \$5,000.00, the operator must submit facts to support such a request. Utherwise, a financial warranty of \$5,000.00 will automatically be set. For all 111 permits, the financial warranty shall be \$2,500.00 per acre.

#### EXHIBIT 1 - Terms of Governmental Contracts (111 Applications only)

For Special 10-Day (111) permits, the operator must submit a copy of the contract or other proof that proves the necessity of a Special 10-day permit. The operator must also submit evidence of the financial warranty provided under the governmental contract, if it was required.

#### NOTICE PROCEDURES

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After the application is considered "filed" (pursuant to Rule 1.1(10) with the Mined Land Reclamation Division, notice procedures outlined in rule 3.2 and/or 4.2 must be followed. (Format for such notices will be included in the letter you receive from the MLR staff informing you of the Completeness ("filing") of your application.)

#### FINANCIAL WARRANTY

Prior to permit issuance, proper performance and financial warranty must be received in accordance with Rule 7. Please obtain the appropriate form for your chosen method of financial warranty.

-4-

#### CULORADO WAFER LAWS

The pennittee is encouraged to contact the State Engineer, with regard to the administration of water rights, and the Colorado Department of Health, with regard to the discharge of pollutants into the waters of the State. Violation of Colorado water laws could result in enforcement actions taken by the State Engineer and/or the Colorado Department of Health.

#### ADDITIONAL INFORMATION

This space can be referenced for further information of any of the items on this form.

• • • • • • • • • • • • • • • • • • •	

To the best of my knowledge, all the information presented in this application is true and correct.

Date: 12-29-

By: C. SINA. ELAAL

IN A

(Rev. 9/83)

s. :"

Doc. No. 5545

4 \* 171- 1 MINED LAND WILDLIFE QUESTIONAIRE for limited impact and select regular mine applications Name of Company/Mine: GLACIER GRAVEL 1. Name/Address/Phone of Contact Person: JIM HEI 2. FRIC 400 E. 32ND. ST. DURANGO, (OCO, 747-3704 Location of Mine: E/2, W/2, SW/4, SEC. 35T 34/2N; E. 9W. N.M. . (County, Township, Range, Section to nearest quarter quarter, Exhibit A-MLR appl.) E. GW. N.M.P.L 3. Nearest Town/General Location: Drowgo Calorado 4. Land Gamership (Circle) 1 (Private) 2. BLM 3. USFS 4. Other 5. Present Land Use: Unste KING 6. SHOP APEA Proposed Final Land Use: tossible 7. Commercia Site 2. Underground Type of Operation: . Surface 8. 9. Minerals being mined: 10. Number and Description of Surface Acres Disturbed by Mining/not including roads (Exhibit D-MLR): 9 Acces 11. Miles of roads to be constructed: Tood existing 12. Life of Mine (years): (Att ) grave - Qharstee Description of Operation and Reclamation -- Additional sheets may be attached 13. (Exhibits B & E-MLR) GRAVEL WASTE LAND AREA UNTIL INE ABITAT Please enclose Maps of Project Operation, Disturbance Areas and Reclamation (Exhibit 14. C.) This will expedite processing. Your cooperation is appreciated. Prepared by MARY 5, Date . 2-29 Pape 1 of 2 SINA HELLMERICES

MINED LAND RECLAMATION DIV'''ON 1313 Sherman Street Room 4. Denver, CO 80203 (303) 866-3567 Nº 2888 DATE 1-3 19 8 monick RECEIVED FROM n r5 00 æ THE SUM OF àrs s FOR 038 (e' AMOUNT OF ACCOUNT ...... 5 <sup>C</sup>U hank 01 E







(A.) EXHIBIT H RECLAMATION COSTS & WARRANTY COST TO PREPARE SLOPES (1/2: | of 1:1) IS SMALL, AS THE WORK WILL IS RE INCIDENTAL TO THE PIT AND COMMERCIAL DEVELOPMENT WORK, HAND SEEDING WILL BE DONE BY ME AND MAY BONS, SO ODSTS ARE SULAC. SEED WILL BE ABOUT \$100.00 FOR A FANGE FRASS BLEND. SINCE THIS IS MAY PROPERTY, HEREBY REQUEST THAT THE FINANCIAL AND PERFORMANCE MARRANTY BE \$1000.00 ENETHOUSAND, OR THE MINIMUM, AND DO BY MAY SIGNATURE, HEREBY FRONTIBE TO BE REEPONSIBLE TO THE BOARD FOR RECLAMATION COSTS, AND TO COMPLY WITH ALL ACT REQUIREMENTS. C. JIM HECMPEICHES DEA. GLACIER GRAVEL PROD. @ JEJ PIT DURANGO, COLO, 400 E, 32.ND ST.



B)

SINCE MINED AREA IS FOR A COMMERCIAL SITE, THE TOTAL AREA, EXCEPT BUILDING, WILL BE GRAVELED WATER SHED FROM SITE WILL BE CARRIED TO THE CEIGINAL DEAINAGES AND DISPERSED TO NATURAL CHANNELS TO AVOID ERCEION.

IN THAT THIS SITE WILL BE MY HOMME, ALL STEPS WILL BE TAKEN TO INSURE THAT DESIGN INTEGETY WILL BE ADHERED TO FOR INVIRONMENT AND WILDLIFE HABITAT.





DEPARTMENT OF NATURAL RESOURCES

MINED LAND RECLAMATION DIVISION

INCOMPLE LETTER

DAVID C. SHELTON, Director

Richard D. Lamm Governor

January 11, 1985

Mr. Jim Helmericks 400 E. 32nd Durango, CO 81301

Re: 110 Application, J&J Pit File No. M-85-001

Dear Mr. Helmericks:

Upon reviewing your application for a Mining and Reclamation Permit, dated January 3, 1985, the staff has determined that it is incomplete under the Colorado Mined Land Reclamation Act, Article 32 of Title 34, C.R.S. 1973, as amended (1976 Session Laws, House Bill 1065).

The following items must be submitted in order for the application to be considered as filed (pursuant to the MLRB definition of "filed", as found in Rule 1.1(10) of the Rules and Regulations of the Mined Land Reclamation Board, as amended, effective July, 1978):

#### Exhibit C

The map you have submitted does not define or indicate the permit boundaries. Please submit a more detailed map, locating the permit boundary, topsoil stockpiles, pit boundaries, onsite stationary equipment, etc.

#### Exhibit D

The Division appreciates you contacting the Division of Water Resources, the Division of Wildlife, and the Soil Conservation Service. The Division also feels that any information from these agencies should be supplied in your permit application. Please submit the appropriate information concerning vegetation and soils, wildlife, and water resources.

#### Exhibit E

The information you have submitted does not describe topsdil salvage, handling, stockpiling and reseeding. Be aware that the Division will not recommend approval of slopes steeper than 2 horizontal to l vertical (2h:lv). State specifically the seed mix to be planted. If you are planning to build on the site, and that is to be part of your reclamation plan, the Board usually requires a copy of the building permit for verification.

423 Centennial Building, 1313 Sherman Street Denver, Colorado 80203 Tel (303) 866-3567

Mr. Jim Hendricks

Exhibit F

Once your application is deemed complete, the Division will send a letter to La Plata County to determine if you are in compliance with local zoning. However, you may request the county to write a letter on your behalf indicating the status of your application with them. This could then be submitted as part of your application. Please state the date you expect local approval and whom you have contacted at La Plata County.

#### Exhibit H

Please calculate and itemize your anticipated reclamation costs in detail, or the Division will recommend a \$5000.00 Financial Warranty. After Board approval of your application, performance and financial warranty must be submitted and in order prior to the Division issuing a mining and reclamation permit. Performance Warranty and Financial Warranty forms will be sent to you upon request. Please refer to Rule 7 of CMLRB Rules and Regulations.

Another item of concern is that the land you have been mining is most likely wildlife habitat, not wasteland. Your photograph also indicates that it is wooded. If it is a zoned land use, the Division should be made aware of this. Please specify the land use.

Also, please be aware that the CMLRB Regulations can be purchased from our office for \$2.00. In reviewing the regulations, you will note that public notice is required, once you have resubmitted your application and it is deemed complete.

If you have any questions concerning this matter, please feel free to call this office.

Sincerely,

Philip C. Saletta Hydrologist/Geological Engineer

PCS/md

cc: La Plata County Planning Department

Doc. No. 6693



CO-ECS-5 6/82 (180-12-11)	U.S. Depar Soil Conse	tment of Ajriculture rvation Service
PART : - GRASS	SEEDING PLANNED	
	Planner: Dan Lynn Producer: J&J PLC	Date: 1-18-85
	Contract or Agreemen	1 #
1. Field No Ac Contract Item No Pra Land Resource Area <u>48A</u> Irrigated Dryland <u>X</u>	Range Site PJ Woodland, IX	e seeding Damy Foothills
2. Planned:		
Seedbed Prep: (a) Method <u>Disc. smooth</u> (b) Approximate dates <u>November, Dece</u> (c) Clean tilled Firm seedbed Stubble cover Interseed Other	_ Seeding Operation: (a) Metho mber (b) Drill spacin <u>c 6-8"</u> (c) Type (d)	intersøed broadcast
Fertilizer: 200# actual N, 40# actual P <sub>2</sub> O <sub>5</sub>		
Pounds actual per acre N <sub>2</sub> (available) P2 <sup>C</sup> 5 K	Weed Control: Mowed Mowing: Chemical:Type Dates:	å Amount:
Mulch:		
Kind: <u>N/A</u> Amount: pounds/Ac How-applied: How-anchored: Anchorage depth: Seed:		
	(1)	(2)
VarietySpecies BartonIWestern WheatCommercialIndian riceOaheInt. wheatCommercialNeedle & InreadMt. Mahogany	Required PLS rates per acre (100\$) 8 6 10 7½ add ⅓ pound	in mixture         30           30
(3)     (4)     (5)       PLS seeding rate per species/Ac.     Total PLS ibs/ species planned (1)x(2)     Total PLS ibs/ species planned (3)x(4)       2.4     10     24       1.8     10     18       2.0     10     20       1.5     10     15		
Remarks:		