# STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Piñeda Director

May 2, 2013

Mr. Rory Williams Star Mine Operations LLC 1675 Larimer St., Suite 820 Denver, CO 80202

## Re: Revenue Mine, NOI File P-2013-006, Technical Issues Adequate, Financial Warranty Required

Dear Mr. Williams,

I have reviewed the Revenue Mine NOI technical adequacy responses you submitted on April 22, 2013, and I found them to be adequately addressed. The final deficient item remaining is the issue of providing the financial warranty for this project.

Enclosed is the Division's reclamation cost estimate, based on the plan originally filed and on the clarifications you provided in your subsequent response letter. The financial warranty amount has been estimated to be \$7,720. Please review the figures in the enclosed packet carefully and notify me promptly if you see any errors or omissions. To submit a financial warranty for this NOI, please complete one of the forms found on our website (<u>http://mining.state.co.us/</u>) and send it directly to our assurance specialist Barbara Coria, at the Division's Denver office (see address in letterhead). If you have any questions, you can contact her at 303-866-3467 x 8148.

<u>Please be reminded that no prospecting activity under this NOI may begin until you have been notified that</u> the financial warranty has been accepted by the Division.

If you have questions about the reclamation costs, please contact me at the Division's Durango Field Office: 691 CR 233, Room A-2, Durango, CO 81301; telephone 970-247-5193.

Sincerely,

Bob Oswald Environmental Protection Specialist

Encl: reclamation cost estimate

Ec: Barbara Coria, DRMS Denver

(c:\13-05 docs\Revenue NOI appr&fw/rco)

## COST SUMMARY WORK

Revenue Mine Pa	ermit Action: <u>N</u>	lew NOI	Permit	JT-1-4. DO01000C
OJECT IDENTIFICATION			1 011110	/Job#: <u>P2013006</u>
Task #: 000 State: Colorado			Abbreviation:	None
Date: <u>5/3/2013</u> County: Ouray			Filename:	P006-000
Agency or organization name: DRMS				
<u>SK LIST (DIRECT COSTS)</u>				
	Form	Fleet	Task	
		-		Cost
		-		\$1,191.97 \$233.00
		4 .		\$1,060.85
	MOBILIZE		7.14	\$1,702.13
	<u>SUBTC</u>	TALS:	80.03	\$4,187.95
DIRECT COSTS ERHEAD AND PROFIT:				
Liability insurance: 2.02%			Total =	\$84.60
Performance bond: 1.05%				\$43.97
Job superintendent: 40.01 hrs				\$2,617.05
Profit: 10.00%		<b>TOT</b>		\$418.80
CON				\$3,164.42 \$7,352.37
			((0a)) =	φ <i>ι,332.31</i>
GAL - ENGINEERING - PROJECT MANAGEMENT	Г:			
Financial warranty processing (legal/related costs):	0.00	-	Total =	0.00
	0.00%	-		\$0.00
Reclamation management and/or administration:	5.00%			\$367.62
CONTINGENCY:	0.00		Total =	\$0.00
	TOTAI	L INDIRE	CT COST =	\$3,532.04
TOTAL B	OND AMOUNT	(direct -	indirect) =	\$7,719.99
	SK LIST (DIRECT COSTS)         Description         Close and seal drill holes         Grade drill pads and replace topsoil         Revegetate drill pads         Haul reclamation equipment to and from site         DIRECT COSTS         ERHEAD AND PROFIT:         Liability insurance:       2.02%         Performance bond:       1.05%         Job superintendent:       40.01 hrs         Profit:       10.00%         CON         SAL - ENGINEERING - PROJECT MANAGEMENT         Financial warranty processing (legal/related costs):         Engineering work and/or contract/bid preparation:         Reclamation management and/or administration:         CONTINGENCY:	Agency or organization name:       DRMS         SK LIST (DIRECT COSTS)       Form         Description       Used         Close and seal drill holes       BOREHOLE         Grade drill pads and replace topsoil       LOADER         Revegetate drill pads       REVEGE         Haul reclamation equipment to and from site       MOBILIZE         DIRECT COSTS       SUBTO         DIRECT COSTS       SUBTO         Disburger       2.02%         Performance bond:       1.05%         Job superintendent:       40.01 hrs         Profit:       10.00%         CONTRACT AMOUT         GAL - ENGINEERING - PROJECT MANAGEMENT:         Financial warranty processing (legal/related costs):       0.00         Engineering work and/or contract/bid preparation:       0.00%         Reclamation management and/or administration:       5.00%         CONTINGENCY:       0.00	Agency or organization name:       DRMS         SK LIST (DIRECT COSTS) <ul> <li></li></ul>	Agency or organization name:       DRMS         SK LIST (DIRECT COSTS)         Description       Form       Fleet       Task         Close and seal drill holes       BOREHOLE       1       30.00         Grade drill pads and replace topsoil       LOADER       1       2.89         Revegetate drill pads       REVEGE       1       40.00         Haul reclamation equipment to and from site       MOBILIZE       1       7.14         SUBTOTALS:       80.03         DIRECT COSTS       80.03         ERHEAD AND PROFIT:       Isolation       Total =         Disperintendent:       40.01 hrs       Total =         Profit:       10.00%       Total =         Profit:       10.00%       Total =         CONTRACT AMOUNT (direct + O & P) =       CONTRACT AMOUNT (direct + O & P) =         GAL - ENGINEERING - PROJECT MANAGEMENT:       Financial warranty processing (legal/related costs):       0.00       Total =         Engineering work and/or contract/bid preparation:       0.00%       Total =

#### BOREHOLE SEALING WORK

	Task description:	Close and s	eal drill holes				
Site:	Revenue Mine	·	Permit Action:	New NOI	Permit/.	Job#: <u>P2013006</u>	_
<u>PROJE</u>	CT IDENTIFICATION	N					
Task #:	001	State:	Colorado		Abbreviation:	None	
Date:	5/3/2013	County:	Ouray		Filename:	P006-001	
User:	RCO						
	Agency or organizat	tion name:	DRMS				

## UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Drill holes, max qty 4	Manual backfill cuttings	3.0	635	1,000.00	LF	\$1.00	\$1,000.00
Plug drill holes, cement	Portland cement grout - 4 in. (labor, equip, materials)	4	3	10.00	LF	\$7.82	\$78.17
Set PVC plugs, 4 max	PVC plug - 4 in. diameter borehole	4	4	4.00	EA	\$28.45	\$113.80

Job Hours: 30.00

Total Cost: \$1,191.97

Notes about task assumptions:

Maximum of 4 drill holes open at one time, which will all be on one drill pad.

Drill hole depths used in estimate are for deepest group of 4 drill holes.

Cuttings will not remain on surface, and will be manually backfilled into borehole.

Since core drilling removes volume, backfill of cuttings accounts for approx 40% of drill hole depth.

Drill holes will most likely be dry, so drill hole sealing cost will not include bentonite.

Drill hole sealing will involve PVC plug, followed by 2.5-ft cement plug up to within 12 inches of surface.

## WHEEL LOADER - LOAD AND CARRY WORK

Revenue Mine	Permit Action:	New NOI	Permit/Job#:	P2013006
** *				
<u>PROJECT IDENTIFIC</u>	<u>ATION</u>			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 5/3/2013	County: Ouray		Filename:	P006-002
User: RCO			· ·	
Agency or organiz	ation name: DRMS			
Agency of organiz				
HOURLY EQUIPMEN'	<u>T COST</u>			
Basic Machine: C.	АТ 924Н	Hors	epower:	128
Attachment 1: R	OPS Cab		·	er day
		Data		CRG)
Cost Breakdown:				
JOST DIÇAKUOWII.		Utilization %		
Ownership Cost/Hou	ur: \$15.45	NA		
Operating Cost/Hou		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou	ır: \$80.34			
Total Fleet Cost/Ho	ur: \$80.34			
	ui. <u>\$00.34</u>			
	TES			
MATERIAL QUANTIT				
Initial volume: 417		Swell factor:	1.270	
	CCY 530 LCY	Swell factor:	1.270	
Initial volume:	CCY 530 LCY	-		
Initial volume: Loose volume: Source of e	530 CCY LCY stimated volume: Division	of Reclamation, Mining		
Initial volume: Loose volume: Source of e	CCY 530 LCY	of Reclamation, Mining		
Initial volume: 417 Loose volume: Source of e Source of estim	530       CCY         530       LCY         estimated volume:       Division         ated swell factor:       Cat Han	of Reclamation, Mining		
Initial volume: 417 Loose volume: Source of e Source of estim	530     CCY       530     LCY       estimated volume:     Division       ated swell factor:     Cat Han       DN	_ of Reclamation, Mining dbook	g & Safety	
Initial volume: 417 Loose volume: Source of e Source of estim	530       CCY         530       LCY         estimated volume:       Division         ated swell factor:       Cat Han	_ of Reclamation, Mining dbook	g & Safety	minute
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIO	530       CCY         530       LCY         sstimated volume:       Division         ated swell factor:       Cat Han         DN       Unadjusted Basic Cycle Time	_ of Reclamation, Mining dbook	g & Safety ): 0.475 Factor (min.)	Source
Initial volume: <u>417</u> Loose volume: <u></u> Source of e Source of estim HOURLY PRODUCTIO Loader Cycle Time: I Cycle Time Factors Material:	530       CCY         530       LCY         estimated volume:       Division         ated swell factor:       Cat Han         DN       Unadjusted Basic Cycle Time         Mixed material 0.02       0.02	of Reclamation, Mining dbook	2 & Safety ): 0.475 Factor (min.) 0.020	Source (Cat HB)
Initial volume: Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile:	530       CCY         530       LCY         estimated volume:       Division         ated swell factor:       Cat Han         DN       Unadjusted Basic Cycle Time         Mixed material 0.02       Conveyor or dozer piled 10	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01	g & Safety ): 0.475 Factor (min.) 0.020 0.010	Source (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	530       CCY         530       LCY         estimated volume:       Division         ated swell factor:       Cat Han         DN         Unadjusted Basic Cycle Time         Mixed material 0.02         Conveyor or dozer piled 10         No adjustment - factor not	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000	Source (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	530       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN         Unadjusted Basic Cycle Time         Mixed material 0.02         Conveyor or dozer piled 10         No adjustment - factor not         Inconsistent operation 0.04	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040	Source (Cat HB (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	S30       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN         Unadjusted Basic Cycle Time         Mixed material 0.02         Conveyor or dozer piled 10         No adjustment - factor not         Inconsistent operation 0.04         Small target 0.04	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040 0.040	Source (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	530       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Cycle Time         Unadjusted Basic Cycle Time         Mixed material 0.02         Conveyor or dozer piled 10         No adjustment - factor not         Inconsistent operation 0.04         Small target 0.04	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00 cle Time Adjustment:	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040 0.040 0.110	Source (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	530       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Cycle Time         Unadjusted Basic Cycle Time         Mixed material 0.02         Conveyor or dozer piled 10         No adjustment - factor not         Inconsistent operation 0.04         Small target 0.04	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040 0.040	Source (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	530       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Unadjusted Basic Cycle Time         Mixed material 0.02       Conveyor or dozer piled 10         No adjustment - factor not       Inconsistent operation 0.04         Small target 0.04       Net Cy	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00 cle Time Adjustment:	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040 0.040 0.110	Source (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB
Initial volume: 417 Loose volume: Source of e Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	530       CCY         530       LCY         stimated volume:       Division         ated swell factor:       Cat Han         DN       Unadjusted Basic Cycle Time         Mixed material 0.02       Conveyor or dozer piled 10         No adjustment - factor not       Inconsistent operation 0.04         Small target 0.04       Net Cy	of Reclamation, Mining dbook (load, dump, maneuver ) ft. high or less 0.01 applicable 0.00 cle Time Adjustment: ted Basic Cycle Time:	g & Safety ): 0.475 Factor (min.) 0.020 0.010 0.000 0.040 0.040 0.110 0.585	Source (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB (Cat HB

#### Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	30	0.00	8.00	8.00	0.0285	(Cat HB)
Return Route:	30	0.00	8.00	8.00	0.0285	(Cat HB)

		Total Travel Total Cycle		minutes minutes
Load Bucket Capacity				
Rated Capacity Bucket Fill Factor Adjusted Capacity	. 0.900	LCY (heaped) Other - soil, boulders, ro LCY	ots (80 -100%) 0.900	
Job Condition Correction Site Altitude: <u>11500</u> feet	Factors			
Altitude Adj: Job Efficiency: Net Correction:	0.97 0.83 0.81	Source (CAT HB) (1 shift/day) multiplier		
A	djusted Hourly Unit I djusted Hourly Unit I ljusted Hourly Fleet I	Production: 182.82	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>ST</u>			
Fleet size:1	Loader(s)	Total job time	2.90	Hours
Unit cost:\$0.4	39 /LCY	Total job c <b>ost</b>	\$233.00	

Task assumptions:

Job time does not include moving loader between drill pads.

Grading earthwork is minimal as sites are mostly level; most earthwork is topsoil replacement. All topsoil work is done by loader (backdragging bucket) so disturbance remains on drill pad.

## **REVEGETATION WORK**

TION	Action: <u>New</u>	NOI	Permit/Joo#	: P2013006
<u>TION</u>				
State: Co	olorado		Abbreviation:	None
County: Ouray		Filename:	P006-003	
on name: DRMS				
	TT !4 /			
	Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00
				Cost /Acre
				\$
	Total	Fertilizer A	pplication Cost/Acre	\$0.00
	County: O	County: Ouray	County: Ouray Ouray Ouray Units / Acre Unit	County:       Ouray       Filename:         ion name:       DRMS       Units /       Cost / Unit         Acre       Unit       Cost / Unit       \$         S       Total Fertilizer       Total Fertilizer

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alpine Bluegrass	4.00	91.83	\$61.28
Timothy, Alpine - Native	1.00	29.84	\$27.07
Totals Seed Mix	5.00	121.67	\$88.35

## Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28
	\$261.28

\$1,219.68

Total Tilling Cost/Acre

#### Total Seed Application Cost/Acre

## **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
					\$
Totals Nursery Stock Cost / Acre					\$0.00

#### JOB TIME AND COST

	No. of Acres: ed Failure Rate: ng Work Items:	 Cost /Acre: <u>\$1</u> Cost /Acre*: <u>\$1</u> G	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$244.81 \$1,060.85		

Notes:

Task assumes seed bed is prepared sufficiently after respreading (backdragging) by loader. Seed are hand broadcast, and raked in by hand.

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

: _ Revenue M	ine	Permit A	Action: New N		Pe	rmit/Job#:	P20130	06
<u>PROJECT I</u>	DENTIFICAT	ION						
Task #: (	004	State: Co	olorado		Abbr	eviation:	None	
	5/3/2013	County: Ou	ıray		F	ilename:	P006-00	4
User:	RCO							
Agen	cy or organizatio	n name: DRMS						
EQUIPMEN	T TRANSPOR	RT RIG COST						
					Shift ba	asis: 1	l per day	
					Cost Data Sou		CRG Data	
Tı	ruck Tractor Desc	cription: GENI	ERIC ON-HIGH		UCK TRACTO (2ND HALF,		DIESEL PO	OWE <b>RE</b> D,
Т	ruck Trailer Desc	cription: GENE	RIC FOLDING			-		
			MC LOPDINO	OOOPEN	ECK, DRUP I	JECK EQU	JIPMENI	TRAILER
					ECK, DROP 1 , 50T, AND 10		JIPMENI	
Cost Breakdow							JIPMENI	
Cost Breakdow	<u>/n:</u>			(25T	, 50T, AND 10			
Available Rig	<u>/n:</u> Capacities	0-25 Tons	26-50 Tons	(25T	, 50T, AND 10		JIPMENI	
Available Rig Owners	<u>/n:</u>			(25T	, 50T, AND 10 + Tons 22.33		JIPMENI	
Available Rig Owners Operat Opera	<u>/n:</u> <b>Capacities</b> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour:	0-25 Tons \$16.63	<b>26-50 Tons</b> \$18.37	(25T 51- \$ \$	, 50T, AND 10		JIPMENI	
Available Rig Owners Operat Opera Hel	<u>Capacities</u> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour: per Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	(25T 51- \$ \$ \$ \$ \$	50T, AND 10 <b>Tons</b> 22.33 50.07 27.66 25.39			
Available Rig Owners Operat Opera Hel	<u>/n:</u> <b>Capacities</b> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66	(25T 51- \$ \$ \$ \$ \$	, 50T, AND 10 + Tons 22.33 50.07 27.66		JIPMENI	
Available Rig Owners Operat Opera Hel Total U	<u>Capacities</u> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour: per Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	(25T 51- \$ \$ \$ \$ \$	50T, AND 10 <b>Tons</b> 22.33 50.07 27.66 25.39		JIPMENI	
Available Rig Owners Operat Opera Hel Total U NON ROAD	<u>Vn:</u> <b>Capacities</b> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour: per Cost/Hour: Jnit Cost/Hour: <b>ABLE EQUIP</b>	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	(25T 51- \$ \$ \$ \$ \$ \$ \$ \$	50T, AND 10 <b>Tons</b> 22.33 50.07 27.66 25.39 25.45	00T)		
Available Rig Owners Operat Opera Hel Total U NON ROAD Machine	An: Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: Juit Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	(25T 51- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	50T, AND 10 <b>Tons</b> 22.33 50.07 27.66 25.39			DOT Permi Cost/ fleet
Available Rig Owners Operat Opera Hel Total U NON ROAD	<u>Zapacities</u> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour: per Cost/Hour: Jnit Cost/Hour: ABLE EQUIP Weight/	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	(25T 51- \$ \$ \$ \$ \$ \$ \$ \$	50T, AND 10 Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip	Return 7		DOT Permi
Available Rig Owners Operat Opera Hel Total U NON ROAD Machine	<u>Capacities</u> hip Cost/Hour: ing Cost/Hour: ator Cost/Hour: per Cost/Hour: Jnit Cost/Hour: ABLE EQUIP Weight/ Unit	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	(25T 51- \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	+ Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	Return 7	<b>Frip</b> fleet	DOT Permi

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
4x4 pickup	\$96.86	2	\$193.72	\$193.72
		Subtotals:	\$193.72	\$193.72

#### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	MONTROSE	
Total one-way travel distance:	45.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,203.99	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$498.14	_

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.29	1.29
Return Time (Hours):	1.29	1.29
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.57	2.57

#### JOB TIME AND COST

Total job time:	7.14	Hours
Total job cost:	\$1,702.13	_

Notes:

4x4 pickups required for access to drill pad sites, carrying crew, and reclamation materials (bore hole plugs and cement, and seed), and daily fuel for loader.