

1313 Sherman Street, Room 215 Denver, CO 80203

November 23, 2015

Mr. Joseph B. Venuti Ace West Trucking, Inc. P.O. Box 117 Rangely, CO 81648

Re: East Douglas Pit, Permit No. M-1987-103, Amendment Approval, Revision No. AM-2

Dear Mr. Venuti:

On November 23, 2015 the Division of Reclamation, Mining and Safety approved the Amendment application submitted to the Division on October 16, 2015, addressing the following:

Amendment to increase the permit acreage from 7.4 acres to 9.9 acres.

The terms of the Amendment No. 2 approved by the Division are hereby incorporated into Permit No. M-1987-103. All other conditions and requirements of Permit No. M-1987-103 remain in full force and effect.

The estimated liability amount of \$38,227.67 exceeds the \$15,590.00 performance bond currently held. If you have not already done so, please submit additional bond in the amount of \$38,227.67. The revision will not be final until the bond is approved by the Division.

If you have any questions, please contact me at (970) 241-2042.

Sincerely,

Travis Marshall

Environmental Protection Specialist



Enclosure - AM-2 Reclamation Cost Estimate

Russ Means, DRMS ec:

Barbara Coria, DRMS

Ivan Geer cc:

Parkerson Construction, Inc. 710 South 15th Street Grand Junction, CO 81501

Paul Daggett BLM - WRFO

220 East Market Street Meeker, CO 81641

COST SUMMARY WORK

Task description:

Final Reclamation Cost Estimate for AM-1

Site: East Douglas Pit

Permit Action: AM-1

Permit/Job#: M1987103

PROJECT IDENTIFICATION

Task #:

001

State:

Colorado

Abbreviation:

None

Date: User:

11/23/2015 THM

County:

Rio Blanco

Filename:

M103-001

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

-	Form	Fleet	Task	
	Used	Size	Hours	Cost
	DOZER	1	19.38	\$3,181.00
Regrade Pit Highwalls	DOZER	1	3.84	\$630.00
Move Rip-Rap Boulders to Base of Cliff	DOZER	1	6.12	\$1,005.00
Place topsoil over re-graded areas	DOZER	1	13.19	\$2,164.00
Place topsoil over lower mine area	DOZER	1	0.62	\$101.00
Reclaim Access Road	EXCAVATE	1	8.46	\$882.00
Revegetation of 9.9 acres disturbance	REVEGE	1	16.00	\$14,463.00
Mobilization	MOBILIZE	1	4.66	\$4,231.00
	SUBTO	TALS:	72.27	\$26,657
	Place topsoil over re-graded areas Place topsoil over lower mine area Reclaim Access Road Revegetation of 9.9 acres disturbance	DescriptionUsedRegrade Pit HighwallsDOZERRegrade Pit HighwallsDOZERMove Rip-Rap Boulders to Base of CliffDOZERPlace topsoil over re-graded areasDOZERPlace topsoil over lower mine areaDOZERReclaim Access RoadEXCAVATERevegetation of 9.9 acres disturbanceREVEGEMobilizationMOBILIZE	DescriptionUsedSizeRegrade Pit HighwallsDOZER1Regrade Pit HighwallsDOZER1Move Rip-Rap Boulders to Base of CliffDOZER1Place topsoil over re-graded areasDOZER1Place topsoil over lower mine areaDOZER1Reclaim Access RoadEXCAVATE1Revegetation of 9.9 acres disturbanceREVEGE1	DescriptionUsedSizeHoursRegrade Pit HighwallsDOZER119.38Regrade Pit HighwallsDOZER13.84Move Rip-Rap Boulders to Base of CliffDOZER16.12Place topsoil over re-graded areasDOZER113.19Place topsoil over lower mine areaDOZER10.62Reclaim Access RoadEXCAVATE18.46Revegetation of 9.9 acres disturbanceREVEGE116.00MobilizationMOBILIZE14.66

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:

2.02

1.05

Performance bond: Job superintendent:

36.14

10.00

Total =

Total = \$538.47 \$279.90

Total =

\$2,715.91

Total =

\$2,665.70

TOTAL O & P =

\$6,199.98

CONTRACT AMOUNT (direct + O & P) =

\$32,856.98

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs):

500.00

Total = 500.00

Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

7.39 5.00 Total = \$2,428.13 \$1,642.85

CONTINGENCY:

3.00

Total = \$799.71

TOTAL INDIRECT COST = \$11,570.67

TOTAL BOND AMOUNT (direct + indirect) = \$38,227.67

Dozing method:

Job efficiency:

Visibility:

1.000

1.000

0.830

(GEN.)

(AVG.)

(1 SHIFT/DAY)

BULLDOZER WORK

Task description: Regrade Pit Highwalls Site: East Douglas Pit Permit Action: AM-1 Permit/Job#: M1987103 PROJECT IDENTIFICATION Task #: 01A State: Colorado Abbreviation: None Date: 11/20/2015 County: Rio Blanco Filename: M103-01a User: THM Agency or organization name: DRMS **HOURLY EQUIPMENT COST** Basic Machine: Cat D7R DS XR Series II Horsepower: 240 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: **Utilization %** Ownership Cost/Hour: \$46.88 NA Operating Cost/Hour: \$79.23 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$164.12 Total Fleet Cost/Hour: \$164.12 **MATERIAL QUANTITIES** Initial Volume: 5,050 Swell factor: 1.165 Loose volume: 5,883 LCY Division of Reclamation, Mining & Safety Source of estimated volume: Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 75 feet Unadjusted hourly production: 854.1 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0% Average site altitude: 6,000 feet Material weight: 2,900 lbs/LCY Weight description: Decomposed rock - 50% Rock, 50% Earth Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB))

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)

Adjusted unit production: 303.55 LCY/hr

Adjusted fleet production: 303.55 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) \$0.541/LCY Unit cost:

Total job time: 19.38 Hours Total job cost: \$3,181

BULLDOZER WORK

Task description: Reg	rade Pit Bottom			
te: East Douglas Pit	Permit Action:	AM- 2	Permit/Job#:	M1987103
PROJECT IDENTIFICATI	ON			
Task #: 02A Date: 11/23/2015 User: THM	State: Colorado County: Rio Blanco	0	Abbreviation: Filename:	None M103-02a
Agency or organization	name: DRMS			27
HOURLY EQUIPMENT C	<u>OST</u>			
	S XR Series II	_		
Horsepower: 240				
Blade Type: Semi-Univ	ersal			
Attachment: NA				
Shift Basis: 1 per day				
Data Source: (CRG)				
	-			
Cost Breakdown:	74			
		Utilization %		
Ownership Cost/Hour:	\$46.88	NA		
Operating Cost/Hour:	\$79.23	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.01			
Operator Cost/Hour.	\$36.01	NA NA		
Total unit Cost/Hour: \$164.	12			
Total Fleet Cost/Hour: \$164.				
Initial Volume: 1,000 Swell factor: 1.165 Loose volume: 1,165 LCY Source of estimated volume:	Division of Reclamation	on, Mining & Safety		
Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
Average push distance:	75 feet			
Unadjusted hourly production:				
Onadjusted nourly production:	854.1 LCY/hr			
Materials consistency description	: Compacted fill or en	nbankment 0.9		
Average much and dients 0.0/				
Average push gradient: 0 % Average site altitude: 6,000	feet			
Material weight: 2,900	lbs/LCY		_	
Weight description: Decor	nposed rock - 50% Rock,	50% Earth		
Job Condition Correction Factor		Source		
Operator Skill:	0.750	(AVG.)		
Material consistency:	0.900	(CAT HB))		
Dozing method:	1.000	(GEN.)		
Visibility:	1.000	(AVG.)		
Job efficiency:	0.830	(1 SHIFT/DAY)	
200 dilloiding.	0.000	(1 SIIII I/DA I	1	

(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)

Adjusted unit production: 303.55 LCY/hr

Adjusted fleet production: 303.55 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.541/LCY

Total job time: 3.84 Hours

Total job cost: \$630

BULLDOZER WORK

Task description:	Move	Rip-Rap Boulders to	o Base of Cliff		
ite: East Douglas Pit		Permit Action	: AM-2	Permit/Job#:	M1987103
PROJECT IDENTI	FICATIO	<u>DN</u>			
Task #: 03A		State: Colorad	0	Abbreviation:	Mana
Date: 05/4 11/23/201	15	County: Rio Blan		-	None
User: THM		County. Kio Bian	100	Filename:	M103-03a
Agency or org	anization n	name: DRMS			
HOURLY EQUIPM	ENT CO	<u>ST</u>			
Basic Machine: C	at D7R DS	XR Series II			
	40	ARC COLLEGE II			
	emi-Univer	rsal			
	A	Jui			
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:	•	\$46.88	NA		
Operating Cost/Hour:		\$79.23	100		
Ripper op. Cost/Hour:	-	\$0.00	0		
Operator Cost/Hour:		\$38.01	NA		
Total unit Cost/Hour:	\$164.12				
Total Fleet Cost/Hour:	\$164.12	2			
	6				
MATERIAL QUAN	<u>TITIES</u>				
Initial Volume: 1,6	3/				
Swell factor: 1.0					
	34 LCY				
Loose volume. 1,0	34 LC I				
Source of estimated volu	ume:	Division of Reclama	ation, Mining & Safety		
Source of estimated swe	ll factor:	Cat Handbook	,		
	-				
HOURLY PRODUC	TION				
	HOI				
Average push distance:	7	75 feet			
Unadjusted hourly produ	action: 8	354.1 LCY/hr			
Materials consistency de	escription:	Compacted fill or	embankment () ()		
	P*******	Compacted in the	omountainent 0.7		
Average push gradient:	0 %				
Average site altitude:	6,000 fe	eet			
•					
Material weight:	3,300 18	os/LCY			
Ü	38-1			-	
Weight description:	Decom	posed rock - 75% Roc	k, 25% Earth	-	
Job Condition Correction	n Factor		Source		
Operator		0.750	(AVG.)		
Material consis		0.900	(CAT HB))		
Dozing me		1.000	(GEN.)		
	bility:	1.000			
V 151	onity.	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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

266.82 LCY/hr Adjusted unit production:

Adjusted fleet production: 266.82 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

\$0.615/LCY Unit cost:

Total job time: **6.12** Hours

Total job cost: \$1,005

BULLDOZER WORK

Task description: Place topsoil over re-graded areas Site: East Douglas Pit Permit Action: AM-1 Permit/Job#: M1987103 PROJECT IDENTIFICATION Task #: 04A State: Colorado Abbreviation: None Date: 11/23/2015 Rio Blanco County: Filename: M103-04a User: THM Agency or organization name: **DRMS HOURLY EQUIPMENT COST** Basic Machine: Cat D7R DS XR Series II Horsepower: 240 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$46.88 NA Operating Cost/Hour: \$79.23 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$164.12 Total Fleet Cost/Hour: \$164.12 **MATERIAL QUANTITIES** Initial Volume: 7,260 Swell factor: 1.000 Loose volume: 7,260 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 75 feet Unadjusted hourly production: 854.1 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0% Average site altitude: 6,000 feet 1,600 lbs/LCY Material weight: Weight description: Top Soil

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)

120		
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 550.47 LCY/hr

Adjusted fleet production: 550.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.298/LCY

Total job time: 13.19 Hours

Total job cost: \$2,164

Visibility:

Job efficiency:

1.000

0.830

(AVG.)

(1 SHIFT/DAY)

BULLDOZER WORK

Task description: Place topsoil over lower mine area Site: East Douglas Pit Permit Action: AM-1 Permit/Job#: M1987103 PROJECT IDENTIFICATION Task #: 05A State: Colorado Abbreviation: None Date: 11/23/2015 County: Rio Blanco Filename: M103-05a User: THM Agency or organization name: DRMS **HOURLY EQUIPMENT COST** Basic Machine: Cat D7R DS XR Series II Horsepower: Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$46.88 NA Operating Cost/Hour: \$79.23 100 Ripper op. Cost/Hour: 0 \$0.00 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$164.12 Total Fleet Cost/Hour: \$164.12 **MATERIAL QUANTITIES** Initial Volume: 340 Swell factor: 1.000 Loose volume: **340 LCY** Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 75 feet Unadjusted hourly production: 854.1 LCY/hr Materials consistency description: Compacted fill or embankment 0.9 Average push gradient: 0% Average site altitude: 6,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 0.900 (CAT HB)) Dozing method: 1.000 (GEN.)

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: 550.47 LCY/hr

Adjusted fleet production: 550.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.298/LCY

Total job time: 0.62 Hours

Total job cost: \$101

HYDRAULIC EXCAVATOR WORK

Task description:	Recla	m Access Road					
e: East Douglas Pit		_ Permit Act	tion: AM-1	<u>.</u>	Pen	mit/Job#:	M1987103
PROJECT IDENTIF	ICATIO	<u>N</u>					
Task #: 06A		State: Colo				viation:	None
Date: 11/23/201 User: THM		County: Rio I	Blanco		Fil	ename:	M103-06a
Agency or orga	ınization n	ame: DRMS					
HOURLY EQUIPM	ENT CO	<u>ST</u>					
Basic Machine:	Cat 320I Stick	DLRR 9'-6"		Hors	sepower:		148
Attachment 1:	ROPS C	ab	_		ht (MT):		1.55
					ft Basis:		er day CRG)
Cost Breakdown:					_	, ,	
Our analis Cont	T 7	#2 <i>C</i>	Utilization %				
Ownership Cost/ Operating Cost/		\$26.63	NA 100				
Operating Cost/		\$49.35 \$28.17	100 NA				
Total Unit Cost/		\$104.15	NA NA				
Total Fleet Cost	/Hour:	\$104.15					
MATERIAL QUAN	<u> </u>		*				
Initial volume: 1	,600	CC	Y Swell fa	ctor:	1.125		
Loose volume: 1	,800	LCY	Y	_			
HOURLY PRODUC Excavator Cycle Time (1)		, swing loaded, du	ımp bucket, swing en	npty):			
3			Job Condition Descri		AVERAG	r E	
	Second	lary Job Condition	within Basic Descrip		AVERAG	E	
Load Bucket Capacity			Cycle Time V	/alue:	0.284		minutes
Dunie Dunies Capacity				Buc	ket Size Cla	es. M	edium
Rated Capacity	/ :	1.54 LCY	Y (heaped)	2			-
Bucket Fill Facto			se material - 1/2" to 3	3/4" (85	5 - 90%) 0.8	75	
Adjusted Capacity	/:	1.35 LCY	Y				
Job Condition Correction	<u>Factors</u>		Sit	te Altit	ude: <u>6000</u> fe	et	
			ource				
Altitude Adj:	0.9		T HB)				
Job Efficiency:	0.8		ift/day)				
Net Correction:	0.7		iplier				
		ourly Unit Produc			CY/Hour		
		ourly Unit Produc			CY/Hour		
A <u>JOB TIME AND CO</u>	_	ourly Fleet Produc	tion:212.66	L	CY/Hour		
	<u> </u>	Excavator	Total job time:		8.46		Hours
Linit and 00	400	/I CV	T . 1 . 1				
Unit cost: \$0.	490	/LCY	Total job cost	:	\$882		

REVEGETATION WORK

Task description:

Revegetation of 9.9 acres disturbance

Site: East Douglas Pit

Permit Action: AM-1

Permit/Job#: M1987103

PROJECT IDENTIFICATION

THM

Task #: Date:

User:

07A 11/23/2015 State: Colorado

County:

Rio Blanco

Abbreviation:

None

Filename: M103-07a

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.26	\$52.80
			Total Fertilizer Materials Cost/Acre	\$52.80

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)		\$145.20
	Total Tilling Cost/Acre	\$243.21

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Fairway	2.00	9.18	\$4.84
Russian Wildrye - Vinal	2.00	8.03	\$7.42
Pubescent Wheatgrass - Luna	2.00	4.13	\$4.48
Western Wheatgrass - Arriba	3.00	7.58	\$11.04
Saltbush, Four Wing	2.00	2.75	\$21.46
Totals Seed Mix	11.00	31.68	\$49.24

Application

Description		Cost /Acre
Drill seeding (DRMS Cost Data)		\$88.20
	Total Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}	_	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$152.57

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Tot	als Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 9.9

Cost / Acre: \$1,168.73

Estimated Failure Rate: 25%

Cost / Acre*: \$1,168.73 *Selected Replanting Work Items: FERTILIZING, TILLING, SEEDING, MU

LCHING

Initial Job Cost: \$11,570.43

Reseeding Job Cost: \$2,892.61

Total Job Cost: \$14,463

Job Hours: 16.00

CIRCES Cost Estimating Software

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization

Site: East Douglas Pit Permit Action: AM-2 Permit/Job#: M1987103

PROJECT IDENTIFICATION

Task #:08AState:ColoradoAbbreviation:NoneDate:11/23/2015County:Rio BlancoFilename:M103-08a

User: THM

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D7R DS XR Series II	32.01	\$46.88	\$117.55	1	\$164.43	\$117.55	\$250.00
Cat 320D LRR 9'- 6" Stick	23.70	\$26.63	\$88.67	1	\$115.30	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: \$503.69 \$383.56 \$1,000.00

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.	\$15.30	2	\$30.60	\$30.60

Subtotals: \$30.60 \$30.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:
Average Travel Speed:

 RANGELY

 30.00
 miles

 45.00
 mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$4,190.38 \$40.80

Transportation Cycle Time:

Non-Roadable Roadable Equipment Equipment Haul Time (Hours): 0.67 0.67 Return Time (Hours): 0.67 0.67 Loading Time (Hours): 0.50 NA Unloading Time (Hours): 0.50 NA Subtotals: 2.33 1.33

JOB TIME AND COST

Total job time: 4.67 Hours

Total job cost: \$4,231