

1313 Sherman St. Room 215 Denver, CO 80203

October 29, 2018

Mr. Matt Welte The Summit Pressed Brick and Tile Company PO Box 533 Pueblo, CO 81002-0533

Re: Calhan Clay Pit, Permit No. M-1993-080;

Financial Warranty Increase, Revision No. SI-1

Dear Mr. Welte:

On October 29, 2018 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$43,890.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$24,690.00. The enclosed inspection report includes the revised financial warranty estimate.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, must be received within 60 days from the date of this letter (due **December 28, 2018**). If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me.

Sincerely,

Timothy A. Cazier

Environmental Protection Specialist

Enclosures

Barbara J. Coria, DRMS ec:

M-FW-14 tc1



COST SUMMARY WORK

e: Calhan Clay Pit		Pe	rmit Action:	Permit/Job	#: <u>M1993080</u>	
PROJECT	IDENTIFIC	<u>CATION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	8/20/2018	County:	El Paso		Filename:	M080-000
User:	TC1					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
010	Backfilling of cut, initial slope grading	DOZER	1	1.63	\$338.00
020	Spreading overburden on 3:1 slope, 0.5 acre	DOZER	1	6.64	\$1,436.00
030	Spread overburden on pit floor, 4.5 acre	SCRAPER1	1	22.45	\$5,314.00
040	Spreading topsoil on 3:1 slope, 0.5 acre	DOZER	1	2.71	\$562.00
050	Spread topsoil on pit floor, 4.5 acre	SCRAPER1	1	11.05	\$2,615.00
060	Rip stockpile areas and haul road, 5 acres	RIPPER	1	7.32	\$1,641.00
070	Seeding prepared site, 10 acres	REVEGE	1	30.00	\$18,272.00
080	Mobilize and demobilize equipment	MOBILIZE	1	3.62	\$3,912.00
		SUBTO	TALS:	85.42	\$34,090

INDIRECT COSTS

OVERHEAD AND PROFIT:

2.02 \$688.62 Liability insurance: Total = Performance bond: 1.05 Total = \$357.95 Job superintendent: 44.55 Total = \$3,254.38 Profit: 10.00 Total = \$3,409.00

TOTAL O & P = \$7,709.95 CONTRACT AMOUNT (direct + O & P) = \$41,799.95

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 5.00 \$2,090.00

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$9,799.95

TOTAL BOND AMOUNT (direct + indirect) = \$43,889.95

ROUNDED TOTAL BOND AMOUNT (direct + indirect) = \$43,890.00

BULLDOZER WORK

Task description:	Backf	illing of cu	t, initial slop	e grading		
te: Calhan Clay Pit		Pe	rmit Action:	2018 Update	Permit/Job	o#: <u>M1993080</u>
PROJECT IDENTI	FICATIO:	<u>N</u>				
Task #: 010 Date: 8/20/201 User: TC1	18	State: County:	Colorado El Paso		Abbreviation: Filename:	None X10
Agency or org	ganization n	ame: DF	RMS			
HOURLY EQUIPM	ENT COS	<u>ST</u>				
Horsepower: S Blade Type: S Attachment: Shift Basis: S	Cat D8T - 8. 310 Semi-Unive NA 1 per day (CRG)					
Cost Breakdown:	(CRO)			_		
Ownership Cost/Hour	r·		\$93.62	<u>Utilization %</u> NA		
Operating Cost/Hour			\$73.35	100		
Ripper own Cost/Hou	n.		\$0.00	NA		
Ripper op. Cost/Hou	r:		\$0.00	0		
Operator Cost/Hou	r:		\$40.23	NA		
Swell factor: 1.	,000 .125 , 125 LCY					
Source of estimated vo		Calc from	— n SWMP beri	ms, mining/recl plans	/ Google	
Source of estimated sy factor:	well	Earth dis				
HOURLY PRODUC	CTION					
Average push distance Unadjusted hourly production:		100 feet 852.6 LCY	/hr			
Materials consistency	description	: Compa	cted fill or er	mbankment 0.9		
Average push gradient:	-30 %					
Average site altitude:	6,600 1	eet				
Material weight:	2,5501	bs/LCY				
Weight description:	Earth -	Dry packe	d			

Job Condition Correction Factor		<u>Source</u>
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)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8091	

Adjusted unit production:

Adjusted fleet production:

689.84 LCY/hr

689.84 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.300/LCY

Total job time: 1.63 Hours
Total job cost: \$338

BULLDOZER WORK

Task description:	Spreading overb	ourden on 3:	1 slope, 0.5 acre		
e: Calhan Clay Pit	Per	rmit Action:	2018 Update	Permit/Job	#: <u>M1993080</u>
PROJECT IDENTIF	ICATION				
Task #: 020	State:	Colorado		Abbreviation:	None
Date: $\frac{020}{8/20/2018}$		El Paso		Filename:	X20
User: TC1	S County.	Lilaso		i ilciiailic.	A20
)			
Agency or orga	anization name: DF	RMS			
HOURLY EQUIPMI	ENT COST				
	at D8T - 8SU		_		
1	10		_		
• • • • • • • • • • • • • • • • • • • •	emi-Universal		_		
	-shank ripper		_		
	per day		=		
Data Source: (0	CRG)		_		
Cost Breakdown:		Í.	TT:M1 - 1 - At		
O		\$02.62	<u>Utilization %</u>		
Ownership Cost/Hours		\$93.62	NA 100		
Operating Cost/Hour: Ripper own		\$73.35	100		
Cost/Hour:		\$8.93	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hours	:	\$40.23	NA		
MATERIAL QUANT Initial Volume: 80 Swell factor: 1.1					
Loose volume: 90	0 LCY				
Source of estimated vo	lume: From Phs		rms, mining/recl plans	/ Google	
Source of estimated sw					
factor:	ou Hallo	COOR			
HOURLY PRODUC	<u>TION</u>				
Average push distance:	200 feet				
Unadjusted hourly production:	491.9 LCY	/hr	<u> </u>		
Materials consistency of	lescription: Compa	cted fill or er	nbankment 0.9		
Average push gradient:	20 %				
Average site altitude:	6,600 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packe	d			

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)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2754

Adjusted unit production:
Adjusted fleet production:

135.47 LCY/hr

135.47 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.595/LCY

Total job time: 6.64 Hours
Total job cost: \$1,436

SCRAPER TEAM WORK

Task description:	Spread overb	urden on pit f	floor, 4.5 acre			
Site: Calhan Clay Pit		Permit Action	: 2018 Update	P	Permit/Job#: M1	993080
PROJECT IDENT	<u>IFICATION</u>					
Task #: 030 Date: 8/20/20 User: TC1	State 018 County				viation: None ename: X30	
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT_		COST	Shift basis: 1 per	day	
		Equipme	ent Description			
	-Scraj	per: Cat 623				
Suppor	t Equipment -Load A					
Road Mai	-Dump A					
	-Water Tru					
Cost Breakdown:	Scraper Work T Scraper	eam Dozer	Support Equal Load Area	ipment Dump Area	Maintenance Motor Grader	e Equipment Water Truck
	-					
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$95.05	NA	NA	NA	NA	NA
Operating cost/hour:	\$95.78	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$45.84	NA	NA	NA	NA	NA
Unit Subtotals:	\$236.67	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$236.67	Support:	\$0.00	Maint:	\$0.00
Total work team cost/	hour: \$236.67					
MATERIAL QUA	NTITIES					
Initial volume:	7,200	CCY	Swell fac	tor: 1.125		
Loose volume:	8,100	LCY				
Sour	ce of estimated volum	ne: Calc fro	m mining/recl pla	ans		
Source o	f estimated swell factor	or: Cat Han	dbook			
HOURLY PRODU	<u>ICTION</u>					
			Scraper E	Bowl (volume) Ba	sis:	
Material weight:	2,550 lbs/LCY		Struck	Volume: 18.00	L	CY
Material description:	Earth - Dry packed			Volume: 23.00	L	CY
Rated Payload:	55,200 pounds		Average			CY
Payload Capacity:	21.65 LCY		Adjusted (Capacity: 20.50	L	CY

Site Altitude: 6600 feet

C_{3}	vcle	Time	•

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.90} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.70} \text{ Minutes} \\ \end{array}$

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	1.00	4.00	5.00	1292	0.72

Haul Time: **0.72** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-1.00	4.00	3.00	2666	0.51

Return Time: **0.51** minutes Total Scraper team cycle time: 2.83 minutes Adjusted for job conditions: 360.74 LCY/Hour Selected Number of Scrapers: Scraper(s) 1 Adjusted single scraper team (unit) hourly production: LCY/Hour 360.74 Adjusted multiple scraper team (fleet) hourly production: 360.74 LCY/Hour

Unadjusted unit production/hour: 434.63 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 22.45
 Hours

 Unit cost:
 \$0.656
 /LCY
 Total job cost:
 \$5,314

BULLDOZER WORK

Task description:	Spreading topsoil or	Spreading topsoil on 3:1 slope, 0.5 acre					
e: Calhan Clay Pit	Permit	Permit Action: 2018 Update			Permit/Job#: M1993080		
PROJECT IDENTII	FICATION						
Task #: 040	State: Co	olorado		Abbreviation:	None		
Date: 8/20/201	8 County: El	Paso		Filename:	X40		
User: TC1							
Agency or org	anization name: DRMS						
HOURLY EQUIPM	ENT COST						
Basic Machine: C	Cat D8T - 8SU						
Horsepower: 3	10						
Blade Type: S	emi-Universal						
Attachment: N	VA.						
Shift Basis: 1	per day						
Data Source: (CRG)						
Cost Breakdown:		ı					
			<u>Utilization %</u>				
Ownership Cost/Hour		893.62	NA				
Operating Cost/Hour		573.35	100				
Ripper own Cost/Hour		\$0.00	NA				
Ripper op. Cost/Hour		\$0.00	0				
Operator Cost/Hour		640.23	NA	<u></u>			
Loose volume: 44 Source of estimated vo	00 115 66 LCY blume: From Phs1 S' Earth dist.		ns, mining/recl plans /	Google			
factor:							
HOURLY PRODUC							
Average push distance Unadjusted hourly production:	200 feet 491.9 LCY/hr		_				
Materials consistency	description: Compacted	l fill or em	bankment 0.9				
Average push gradient:	20 %						
Average site altitude:	6,600 feet						
Material weight:	2,100 lbs/LCY			_			
Weight description:	Earth - Loam						

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)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3343

Adjusted unit production:

Adjusted fleet production:

164.44 LCY/hr

164.44 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.260/LCY

Total job time: 2.71 Hours
Total job cost: \$562

SCRAPER TEAM WORK

Task description:	Spread to	psoil on pit floor,	4.5 acre			
Site: Calhan Clay Pit		Permit Action	: 2018 Update	P	ermit/Job#: M1	993080
PROJECT IDENT	CIFICATION					
Task #: 050	5	State: Colorado		Abbrey	viation: None	
Date: $\frac{8/20/2}{}$		unty: El Paso			ename: X50	
User: TC1		·				
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT_		COST	Shift basis: 1 per	day	
		Equipme	ent Description			
		Scraper: Cat 623	3G			
- C		-Dozer: NA				
Suppor	rt Equipment -Loa Dum-	d Area: NA p Area: NA				
Road Mai	intenance –Motor					
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wor	rk Team Dozer	Support Equ Load Area	ipment Dump Area	Maintenanc Motor Grader	e Equipment Water Truck
	Scraper	Dozei	Load Alea	Dunip Area	Motor Grader	water fruck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$95.05	NA	NA	NA	NA	NA
Operating cost/hour:	\$95.78	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$45.84	NA	NA	NA	NA	NA
Unit Subtotals:	\$236.67	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work:	\$236.67	Support:	\$0.00	Maint:	\$0.00
Total work team cost/	hour: <u>\$236.67</u>					
MATERIAL QUA	NTITIES					
Initial volume:	3,600	CCY	Swell fac	tor: 1.115		
Loose volume:	4,014	LCY				
Sour	rce of estimated vo	olume: Calc from	m mining/recl pl	ans		
Source of	of estimated swell	factor: Cat Han	dbook			
HOURLY PRODU	JCTION					
			Scraper E	Bowl (volume) Ba	sis:	
Material weight:	2,100 lbs/LCY		Struck	Volume: 18.00	L	CY
Material description:	Earth - Loam			Volume: 23.00		CY
Rated Payload:	55,200 pounds 26,29 LCY		Average			CY
Payload Capacity:	76 79 LCY		Aduisted (Capacity: 20.50	1.7	CY

Site Altitude: 6600 feet

C_{λ}	ycl	e T	<u> </u>	e:

Scraper Loading Time: 0.90 Minutes
Maneuver and Spread Time: 0.70 Minutes

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	800.00	1.00	4.00	5.00	1292	0.70

Haul Time: **0.70** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-1.00	4.00	3.00	2666	0.51

Return Time: 0.51 minutes Total Scraper team cycle time: 2.81 minutes Adjusted for job conditions: 363.31 LCY/Hour Selected Number of Scrapers: Scraper(s) 1 Adjusted single scraper team (unit) hourly production: LCY/Hour 363.31 Adjusted multiple scraper team (fleet) hourly production: 363.31 LCY/Hour

Unadjusted unit production/hour:	437.72	LCY/Hou
Optimal Number of Scrapers per push dozer:		

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	11.05	Hours
Unit cost:	\$0.651	/LCY	Total job cost:	\$2,615	

BULLDOZER RIPPING WORK

Task description	ı: <u>Ki</u> j	p stockpile areas and hau	l road, 5 acres			
e: Calhan Clay	Pit	Permit Action:	2018 Update		Permit/Job#:	M1993080
PROJECT IDI	ENTIFICAT	<u>ION</u>				
Task #: 06 Date: 8/ User: To	20/2018	State: Colorado County: El Paso				Tone (60
Agency	or organizatio	n name: DRMS				
HOURLY EQU	•					
				II	210	`
Ripper At		at D8T - 8SU -Shank Ripper		Horsepower: Shift Basis:	310 1 per o	
11		11		Data Source:	(CRO	
Cost Breakdown:			1			
	Ownership (Cost/Hour:	\$93.62	Utilization % NA		
	Operating (\$73.35	100	_	
	er Ownership (Cost/Hour:	\$8.93	NA	- -	
Rip _l	oer Operating Operator Operato		\$7.78 \$40.23	100 NA	<u> </u>	
	Total Unit (\$223.91	11/1	_	
	Total Fleet (Cost/Hour: \$223	R 01			
	10001	Ψ220				
MATERIAL Q	UANTITIES	Selec	cted estimating i	method: Are	a	
Alternate Method	<u>s:</u>					
e: NA		Bank Volume:	NA	BCY		NA
a: 5.00	acres	Rip Depth (ft):	1.00	Volume:	8,067	ВС
	Source of est	imated quantity: Mining	z/recl plan in per	rmit		<u></u>
HOURLY PRO	DUCTION					
Seismic:						
A		Seismic Velocity:	NA	feet/se	cond	
Area:	Avera	ge Ripping Depth:	2.56	mph		
	Avera	ge Ripping Width:	7.08	degree	S	
		ge Ripping Length: rage Dozer Speed:	500.00 88.00	feet		
		e Maneuver Time:	0.25	feet feet		
		ction per unit area:	0.822	acres/h	our	
Job Condition Co	rrection Factor	<u></u>				
Un	adjusted Hourl	y Unit Production:	0.822	Acres/	hr	
	J	Site Altitude:	6,600	feet		
		Altitude Adj:	1.00	(CAT	HB)	
		Job Efficiency:	0.83	(1 shif		
		Net Correction:	0.83	multip	lier	
		Hourly Unit Production: Hourly Fleet Production:	0.68 0.68	Acres/hr Acres/hr		
JOB TIME AN	D COST					
Fleet size:	1	Grader(s)	Total job time	e:	7.33	Hours
Unit cost:	\$328.183	Per acre	Total job cost	t: S	81,641	

\$68.00

\$68.00

REVEGETATION WORK

Task description:	Seeding prepared site, 10	acres		
te: Calhan Clay Pit	Permit Action	on: 2018 Update	Permit/Job	o#: <u>M1993080</u>
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 070 Date: 8/20/2013 User: TC1	State: Colorac County: El Paso		Abbreviation: Filename:	None X70
	anization name: DRMS			
FERTILIZING Materials				
Description		Units / Acre Unit	Cost / Unit	Cost /Acre

200.00

pound

\$0.34

Total Fertilizer Materials Cost/Acre

Application

10-34-0, 18-46-0, 5-10-5

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$34.72
	Total Fertilizer Application Cost/Acre	\$34.72

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$299.89

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sideoats Grama - Vaughn	2.25	7.39	\$23.04
Smooth Brome - Manchar	2.60	8.65	\$11.34
Pubescent Wheatgrass - Luna	2.80	5.79	\$11.68
Western Wheatgrass - Barton	5.60	14.14	\$43.51
Totals Seed Mix	13.25	35.97	\$89.56

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
	Total Mulch Application Cost/Acre	\$161.56

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 10
 Cost /Acre:
 \$1,461.73

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,461.73

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,

MULCHING

Initial Job Cost: \$14,617.30

Reseeding Job Cost: \$3,654.33

Total Job Cost: \$18,272

Job Hours: 30.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilize and demo	bilize equipment			
e: Calhan Clay Pit	Permit	t Action: 2018 U	Jpdate	Permit/Job	o#: <u>M1993080</u>
PROJECT IDENTIFICATI	ON				
Task #: 080	State: C	Colorado	Ab	breviation:	None
Date: 8/20/2018 User: TC1	County: E	l Paso		Filename:	M080-080
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shift	basis:	l per day
			Cost Data S		CRG Data
Truck Tractor Desc	ription: GENE	ERIC ON-HIGHW	AY TRUCK TRAC 400 HP (2ND HAI	, ,	DIESEL POWERED,
Truck Trailer Desc	ription:	GENERIC FOLDI	NG GOOSENECK,		K EQUIPMENT
		T	RAILER (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		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

\$88.67

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 D8T - 8SU	47.71	\$93.62	\$117.55	1	\$211.17	\$117.55	\$250.00
Cat 623G	41.35	\$95.05	\$117.55	1	\$212.60	\$117.55	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

\$117.55

\$125.45

Subtotals: \$624.98 \$412.44 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 33.00 miles
Average Travel Speed: 40.00 mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.83	0.83
Return Time (Hours):	0.83	0.83
Loading Time (Hours):	0.08	NA
Unloading Time (Hours):	0.08	NA
Subtotals:	1.81	1.65

JOB TIME AND COST

Total job cost: 3.62 Hours

Total job cost: \$3,912