COST SUMMARY WORK

Т	ask descrip	tion:	Cost Summary					
Site:	Goodrich	Pit	Perr	nit Action:	112c Applicati	on	Permit/Job#	: M2019005
<u>PR</u>	ROJECT	IDENTIFIC	ATION					
	Task #:	000	State:	Colorado			Abbreviation:	None
	Date:	2/21/2019	County:	Las Anima	S		Filename:	M005-000
	User:	JLE						
TA		ency or organ		RMS				
Tech					Form	Fleet	Task	
Task	Descrip	tion			Used	Size	Hours	Cost
001	Drill an	d Blast Highw	all		BLASTING	1	54.54	\$23,751.00
001b	Grade b	lasted highwa	ll material to 3H:1V	slope.	DOZER	1	6.44	\$1.408.00

		<u>SUBTO</u>	TALS:	396.28	\$216,448
005	Mobilization	MOBILIZE	1	9.32	\$15,145.00
004	Revegetation	REVEGE	1	80.00	\$102,838.00
003	Spread topsoil	LOADER	2	189.27	\$47,762.00
002	Rip the affected land	RIPPER	2	56.71	\$25,544.00
001b	Grade blasted highwall material to 3H:1V slope.	DOZER	1	6.44	\$1,408.00
001	Drill and Blast Highwall	BLASTING	1	54.54	\$23,751.00

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,372.25
Performance bond:	1.05	Total =	\$2,272.70
Job superintendent:	198.14	Total =	\$14,474.13
Profit:	10.00	Total =	\$21,644.80
		TOTAL O & P =	\$42,763.88
		CONTRACT AMOUNT (direct + O & P) = $($	\$259,211.88

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	0.00 4.25	Total = Total =	0.00 \$11,016.50
Reclamation management and/or administration: CONTINGENCY:	<u>5.00</u> 0.00	Total =	\$12,960.59 \$0.00
		TOTAL INDIRECT COST =	\$66,740.98
TOTAL B	\$283,188.98		

SURFACE BLASTING WORK

Task description:	Drill and Blast Highwall				
te: Goodrich Pit	Permit Action:	112c Application	Pe	rmit/Job#: <u>N</u>	12019005
PROJECT IDENTIFIC	CATION				
Task #: 001 Date: 2/21/2019 User: JLE	State: Colorado County: Las Anima	15		eviation: <u>No</u> ilename: <u>Mo</u>	one 005-001
Agency or organ	nization name: DRMS				
BLAST AREA DIMEN	<u>810N8</u>				1
T			· · · ·	ANTITY	
		ge-shaped mass (hi			iced cut/fill)
Blast		blast (fragmentatio			1 1
	Highwall or Bend			0.75	h:1v
		d Slope Angle:		3.00	h:1v
		Bench Length: Bench Width:		1,200 34	feet
	ě	Bench Height:		30.0	feet feet
	Depth to Base of C			11.3	feet
	Depth to Base of C	ut at Highwan.		11.5	Icci
BLAST AREA VOLUN	<u>MES</u>				
			OUA	NTITY	UNIT
	Total Volume of Dimensional	Mass to be Shot:	· · · · ·	385	cubic yards
Blast	Volume to Subdrill Grade and Bla			635	cubic yards
	st Volume to Finish Grade and Bla			635	cubic yards
	aining Volume Required to be Re			750	cubic yards
	* *				· · · · ·
BLAST AREA DESIG	<u>N</u>				
		QUANT	ITY	UNI	Г
Reco	ommended Blasthole Diameter:	1.507	1	inches	
	Selected Blasthole Diameter:	7.000)	inches	
	Subdrilling Allowance:	0.0		feet	
	Blasthole Depth:	6.5		feet	
	Density of Rock:	Cast blasting (Al	NFO Basis)	rock density	
Bu	rden to Charge Diameter Ratio:	20		times diamet	er
	Burden:	12.0		feet	
	Spacing to Burden Ratio:	1.1		times burden	
	Spacing:	13.0		feet	
Cub	ic Yards of Rock per Blasthole:	25.19		cubic yards	
	Powder Factor Description:	Mediu		rock strength	
	Powder Factor:	0.575		pounds/cu. y	a
	Density of Blasting Agent:	0.85		grams/cc	
Quant	ity of Explosives per Blasthole:	14.48	>	POUNDS	
II.:	Height of Powder Column: ght of Stemming per Blasthole:	5.45		feet feet	
Hei	Stemming to Burden Ratio:	0.45		times burden	
	tity of Stemming per Blasthole:	0.45	0	cubic yards	·
Quali	Number of Rows:	2	0	rows	
	Number of Blastholes per Row:	92		holes per rov	
	Total Number of Blastholes:	184		holes	•
	Total Length of all Blastholes:	1,191		feet	
		-,-/1			

BLASTING MATERIALS QUANTITIES

	QUANTITY	UNIT
Total Quantity of Stemming Required:	9.93	cubic yards
Total Quantity of Explosives Required:	2,665	pounds
Total Quantity of det. cord/fuse/wire Required:	3,968	linear feet
Quantity of Blasting Caps per Blasthole:	1	cap(s)
Total Quantity of Blasting Caps Required:	184	caps
Quantity of Primers per Blasthole:	1	primer(s)
Total Quantity of Primers Required:	184	primers
Quantity of Delays per Blasthole:	1	delay(s)
Total Quantity of Delays Required:	186	delays

HOURLY EQUIPMENT COST

Shift basis: 1 per day

Description				
Drilling Equipment - Drill:	SCHRAMM T450WS			
-Drill Pad Preparation:	Cat D8T - 8SU			
Misc. Drill Support Equipment:	NA			
Misc. Explosives Support Equipment:	NA			
Explosives Delivery –Bulk Truck:	ANFO Bulk Delivery Truck			
-Cap Truck:	Cap Delivery Truck			

	Drilling	Drill Pad	Misc. Drill	Misc. Exp	l. Explos	ives Delivery
Cost Breakdown:	Equipment	Preparation	Support	Support	Bulk Truc	k Cap Truck
	Drilling	Dozer			MiscTruck	MiscTruck
%Utilization-machine:	100	25	NA	NA	25	25
Ownership cost/hour:	\$97.88	\$93.62	NA	NA	\$79.36	\$4.55
Operating cost/hour:	\$141.00	\$18.34	NA	NA	\$28.62	\$5.44
% Utilization-ripper:	NA	15	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$8.93	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$1.17	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$74.33	\$41.52	NA	NA	\$27.69	\$27.69
Unit Subtotals:	\$313.21	\$163.57	\$0.00	\$0.00	\$135.67	\$37.68
Number of Units:	1	1	0	0	1	1
Group Subtotals:	\$313.21	\$163.57	\$0.00	\$0.00	\$135.67	\$37.68

Total work team cost/hour: <u>\$650.13</u>

MATERIALS COST

	Description	Unit	Unit Cost	Quantity	Total Cost
	Bulk ANFO nom. density				
Blasting Agent:	(7,900-15,000 fps)	Pound	\$0.240	2665.082	\$639.62
	Cast primer, 1.0 lb				
	(electric or non-electric				
Primers or Boosters:	system)	Each	\$3.450	184.000	\$634.80
	Non-electric cap, delay				
Blasting Caps:	(non-electric systems)	Each	\$3.650	184.000	\$671.60
× .	Detonating cord, 45				
Det. Cord, fuse, or	gr./ft. (non-electric				
wire:	systems)	Linear foot	\$0.160	3968.140	\$634.90
	1,000 MS delays (non-				
Delays:	electric systems)	Each	\$19.060	186.000	\$3,545.16
•	NO MISCELLANEOUS				
	MATERIALS				
Miscellaneous:	REQUIRED	NA	\$0.000	0.000	\$0.00
Drill bits:	Bit life = 1,750	Linear feet	\$1,825.64	0.681	\$1,242.90
			T (1)		¢= 2(0.00

Total Materials Cost:\$7,368.98

DRILLING AND EXPLOSIVES PREPARATION TIME

Total Drilling Length:	1,191	linear feet
Unadjusted Drilling Rate:	82.00	feet/hour
Drilling Time:	22.83	hours

Job Condition Corrections:

Site Altitude:	6,100	feet
Altitude Adjustment:	0.95	(DRMS est.)
Job Efficiency Factor:	0.67	(CH. Exc. HB)
Adjusted Drilling Rate:	52.19	feet/hour
Explosives Prep. Time:	31.72	hours

JOB TIME AND COST

			Total Job Time:	54.55	Hours
Unit cost:	\$5.124	_ per cu. yd.	Total Job Cost:	\$23,751	

BULLDOZER WORK

Task description:	Grade blasted h	ighwall mate	rial to 3H:1V slope.		
Site: Goodrich Pit	Per	mit Action:	112c Application	Permit/Jo	b#: <u>M2019005</u>
PROJECT IDENTIF	ICATION				
Task #: 001B Date: 2/21/2019 User: JLE	State: County:	Colorado Las Animas	3	Abbreviation: Filename:	None M005-001b
Agency or orga	anization name:	RMS			
HOURLY EQUIPMI	ENT COST				
Basic Machine: C Horsepower: 3	at D8T - 8SU 10 emi-Universal		-		
Attachment: 3- Shift Basis: 1	shank ripper per day		- -		
Data Source: (C Cost Breakdown:	CRG)		_		
Ownership Cost/Hour:		\$93.62	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$73.35	100		
Ripper own. Cost/Hour:		\$8.93	NA		
Ripper op. Cost/Hour:		\$1.17	15		
Operator Cost/Hour:		\$41.52	NA		
Initial Volume: 4,2 Swell factor: 1.0 Loose volume: 4,2					
Source of estimated vo		 lighwall Surfa	ace area, 2.61 acres, P	ush 1 foot	
Source of estimated sw factor:	ell <u>depth</u> Cat Hand	book			
HOURLY PRODUC	<u> TION</u>				
Average push distance: Unadjusted hourly production:	50 feet 1,400.0 LC	Y/hr			
Materials consistency c	lescription: <u>Rock</u> , a	wg. ripped or	blasted 0.7		
Average push gradient:	-30 %				
Average site altitude:	6,100 feet				
Material weight:	3,300 lbs/LCY				
Weight description:	Basalt				
Job Condition Correction Operator		750	Source (AVG.)		
Material consis		700	(CAT HB)		

Dozing method	1: 1.200	(SLOT)
Visibility	1.000	(AVG.)
Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradient	t: 1.601	(CAT HB)
Altitude	2: 1.000	(CAT HB)
Material Weight	t: 0.697	(CAT HB)
Blade type	2: 1.000	(PAT)
Net correction	n: 0.4668	
Adjusted unit production:	653.52 LCY/hr	
Adjusted fleet production:	653.52 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.334/LCY

Total job time:	6.44 Hours
Total job cost:	\$1,408

BULLDOZER RIPPING WORK

	Rip the affected land					_
Site: Goodrich Pit	Permit Ac	tion: <u>112c</u> Appli	cation	Permit/Job#:	M201900	5
PROJECT IDE	NTIFICATION					
Task #: 002	2 State: Color	ado	Abbi	eviation: N	one	
Date: 2/2	1/2019 County: Las A	nimas	F	Filename: M	1005-002	
User: JLE	3					
Agency of	or organization name: DRMS					
HOURLY EQU	IPMENT COST					
Basic M	Machine: Cat D8T - 8SU		Horsepower:	310	1	
Ripper Atta	chment: <u>3-Shank Ripper</u>		Shift Basis:	1 per c		
			Data Source:	(CRC	J)	
Cost Breakdown:						
		* ••••••••••••••••••••••••••••••••••••	Utilization %			
	Ownership Cost/Hour:	\$93.62 \$73.35	NA 100	-		
Rinner	Operating Cost/Hour:	\$75.55	 NA	-		
	er Operating Cost/Hour:	\$7.78	100	-		
	Operator Cost/Hour:	\$41.52	NA	-		
	Total Unit Cost/Hour:	\$225.20		-		
	Total Fleet Cost/Hour:	\$450.40				
		<i>Q</i> 100110				
	Source of estimated quantity: <u>80</u>	acres less 2.61 acr	res			
HOURLY PRO						
	DUCTION					
Seismic:		N7.4	6 (
Seismic:	DUCTION Seismic Velocity:	NA	feet/sec	ond		
<u>Seismic:</u> <u>Area:</u>	Seismic Velocity:			ond		
	Seismic Velocity:	2.56	mph			
	Seismic Velocity: Average Ripping Depth: Average Ripping Width:	2.56 7.08	mph degrees			
	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length:	2.56 7.08 500.00	mph			
	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed: Average Maneuver Time:	2.56 7.08 500.00 88.00 0.25	mph degrees feet			
	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed:	2.56 7.08 500.00 88.00	mph degrees feet feet			
	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed: Average Maneuver Time: Production per unit area:	2.56 7.08 500.00 88.00 0.25	mph degrees feet feet feet feet			
Area: Job Condition Cor	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed: Average Maneuver Time: Production per unit area:	2.56 7.08 500.00 88.00 0.25	mph degrees feet feet feet feet	Dur		
Area: Job Condition Cor	Seismic Velocity: Average Ripping Depth: Average Ripping Width: Average Ripping Length: Average Dozer Speed: Average Maneuver Time: Production per unit area: rection Factors	2.56 7.08 500.00 88.00 0.25 0.822 0.822	mph degrees feet feet feet feet acres/he	Dur		
Area: Job Condition Cor	Seismic Velocity:	$ \begin{array}{r} 2.56 \\ 7.08 \\ 500.00 \\ 88.00 \\ 0.25 \\ 0.822 \\ \end{array} $	mph degrees feet feet feet acres/h Acres/h	our		
Area: Job Condition Cor	Seismic Velocity:	$ \begin{array}{r} 2.56 \\ 7.08 \\ 500.00 \\ 88.00 \\ 0.25 \\ 0.822 \\ \hline 0.822 \\ \hline 6,100 \\ 1.00 \\ 0.83 \\ \end{array} $	mph degrees feet feet feet acres/h Acres/h feet (CAT H (1 shift	our r HB) /day)		
Area: Job Condition Cor	Seismic Velocity:	2.56 7.08 500.00 88.00 0.25 0.822 0.822 6,100 1.00	mph degrees feet feet feet acres/h Acres/h feet (CAT H	our r HB) /day)		
Area: Job Condition Cor	Seismic Velocity:	2.56 7.08 500.00 88.00 0.25 0.822 0.822 6,100 1.00 0.83 0.83 0.83 ion: 0.68	mph degrees feet feet feet acres/h Acres/h feet (CAT H (1 shift multipl Acres/hr	our r HB) /day)		
Area: Job Condition Corr Unad	Seismic Velocity:	2.56 7.08 500.00 88.00 0.25 0.822 0.822 6,100 1.00 0.83 0.83 0.83 ion: 0.68	mph degrees feet feet feet acres/h Acres/h feet (CAT H (1 shift multipl	our r HB) /day)		
Area: Job Condition Corr Unac	Seismic Velocity:	2.56 7.08 500.00 88.00 0.25 0.822 0.822 6,100 1.00 0.83 0.83 ion: 0.68 ion: 1.36	mph degrees feet feet feet acres/h Acres/h feet (CAT H (1 shift multipl Acres/hr	our r HB) /day) ier	Hours	
Area: Job Condition Corr Unad	Seismic Velocity:	2.56 7.08 500.00 88.00 0.25 0.822 0.822 6,100 1.00 0.83 0.83 0.83 ion: 0.68	mph degrees feet feet feet acres/h Acres/h (CAT H (1 shift multipl Acres/hr Acres/hr	our r HB) /day)	Hours	

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Spread topsoil			
Goodrich Pit	Permit Actio	n: <u>112c Application</u>	Permit/Jo	b#: <u>M2019005</u>
PROJECT IDENTIFICA	TION			
Task #: 003	State: Colorad	0	Abbreviation:	None
Date: 2/21/2019	County: Las Ani		Filename:	M005-003c
User: JLE				
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	COST			
	AT 966H	Horse	power:	262
	OPS Cab		1	ber day
				CRG)
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hou	r: \$39.42	NA		
Operating Cost/Hou		100		
Operator Cost/Hou	r: \$40.90	NA		
Total Unit Cost/Hou	r: \$126.18			
Total Fleet Cost/Hor	ur: \$252.35	_		
MATERIAL QUANTITI	IES			
Initial volume: 64,5		Swell factor:	1.000	
Loose volume:	64,533 LCY		1.000	
Source of es	stimated volume: 80 Acr	es, 6" deep		
Source of es		cs, o uccp		
		ndbook		
Source of estima	ated swell factor: Cat Ha	· · · · · · · · · · · · · · · · · · ·		
Source of estima	ated swell factor: Cat Ha	· · · · · · · · · · · · · · · · · · ·		
Source of estima	nted swell factor: Cat Ha	· · · · · · · · · · · · · · · · · · ·	0.500	minutes
Source of estima	nted swell factor: Cat Ha	ndbook c Cycle Time (load, dumj	0.500	minutes
Source of estima HOURLY PRODUCTIO Loader Cycle Time:	nted swell factor: Cat Ha	ndbook c Cycle Time (load, dumj):	
Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors	nted swell factor: <u>Cat Ha</u> N Unadjusted Basic	ndbook c Cycle Time (load, dumj	$\frac{0.500}{\text{Factor (min.)}}$	Source
Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	tted swell factor: Cat Ha Unadjusted Basic Mixed material 0.02 Dumped by truck 0.02 Common ownership of th	ndbook c Cycle Time (load, dum maneuver): 0.500 Factor (min.) 0.020	Source (Cat HB)
Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile:	tted swell factor: Cat Ha <u>N</u> Unadjusted Basic <u>Mixed material 0.02</u> Dumped by truck 0.02	ndbook c Cycle Time (load, dumj maneuver rucks and loaders -	$\frac{0.500}{Factor (min.)}$ 0.020 0.020	Source (Cat HB) (Cat HB)
Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	tted swell factor: Cat Ha Unadjusted Basic Mixed material 0.02 Dumped by truck 0.02 Common ownership of tr 0.04	ndbook c Cycle Time (load, dumj maneuver rucks and loaders -): 0.500 Factor (min.) 0.020 0.020 -0.040	Source (Cat HB) (Cat HB) (Cat HB)
Source of estima HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed material 0.02 Dumped by truck 0.02 Common ownership of tr 0.04 No adjustment - factor r Nominal target 0.00	ndbook c Cycle Time (load, dumj maneuver rucks and loaders -): 0.500 Factor (min.) 0.020 0.020 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)

Rolling Resistance – Road Conditions

Haul:	Rutted dirt, little maintenance, no water, 1" tire penetration 4.0
Return:	Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul and Return Time

	Length (feet)	Grade Res.	Rolling Res. (%)	Total Res.	Travel Time (minutes)	Source
Haul Route:	500	0.00	4.00	4.00	0.4222	(Cat HB)
Return Route:	500	0.00	4.00	4.00	0.3923	(Cat HB)
				ravel Time: Cycle Time:	0.8145 1.3145	minutes minutes
Load Bucket Capacity						
Rated Capac Bucket Fill Fac Adjusted Capac Job Condition Correcti Site Altitude: <u>6100</u> feet	etor: 0.9 city: 4. on Factors	000 Othe	(heaped) er - soil, boulde	rs, roots (80 -10	00%) 0.900	
		Sc	ource			
Altitude Adj	: 1.00		T HB)			
Job Efficiency	-		ift/day)			
Net Correction	: 0.83	mult	iplier			
Unadjusted Hourly Unit Production: 205.40 LCY/Hour Adjusted Hourly Unit Production: 170.48 LCY/Hour Adjusted Hourly Fleet Production: 340.96 LCY/Hour JOB TIME AND COST Image: Content of the second s						
Fleet size:		pader(s)	Total job	time:	189.27	Hours

Fleet size:	2	Loader(s)	Total job time:	189.27	Hour
Unit cost:	\$0.740	/LCY	Total job cost:	\$47,762	

REVEGETATION WORK

Goodrich	n Pit	Pe	rmit Action:	112c Application	Permit/Jo	b#: <u>M2019005</u>
ROJECT Task #: Date:	1DENTIFIC 004 2/21/2019	CATION State: County:	Colorado Las Anima	<u>s</u>	Abbreviation: Filename:	None M005-004
User:	JLE ency or organi		RMS	·		

FERTILIZING

Materials Units / Acre Unit Cost / Unit Cost / Acre Image: Image:

Application

	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00
	Total Fertilizer Application Cost/Acre

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.75	12.24	\$12.50
Prairie Clover, Purple - Kaneb	0.32	2.19	\$18.52
Sideoats Grama - Butte	1.37	4.50	\$13.56
Little Bluestem - Pastura	1.01	6.03	\$17.41
Western Wheatgrass - Arriba	4.00	10.10	\$33.12
Needle and Thread	0.55	1.45	\$23.38
Needlegrass, Green - Lodorm	0.48	1.99	\$2.39
Winter Fat	0.02	0.05	\$0.42
Totals Seed Mix	8.50	38.55	\$121.30

Application

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

	Cost /Acre
	\$68.78
	\$92.78
Total Mulch Application Cost/Acre	\$161.56
	Total Mulch Application Cost/Acre

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:	80	Cost /Acre:	\$1,197.15
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$353.30
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$95,772.00			
Reseeding Job Cost:	\$7,066.00			
Total Job Cost:	\$102,838			
Job Hours:	80.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: N	Iobilization				
Site: Goodrich Pit	Permi	it Action: <u>112c</u>	Application	Permit/Jo	b#: <u>M2019005</u>
PROJECT IDENTIFICAT	<u>TION</u>				
Task #: 005 Date: 2/21/2019 User: JLE		Colorado Las Animas	A	bbreviation: Filename:	None M005-005
Agency or organizati	on name: DRM	S			
EQUIPMENT TRANSPO Truck Tractor De Truck Trailer De	scription: GEN		Cost Data	Source: <u>C</u> CTOR, 6X4, I LF, 2006)	l per day TRG Data DIESEL POWERED, K EOUIPMENT
			RAILER (25T, 50T		
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:		\$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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
-	(TONS)				fleet		
SCHRAMM T450WS	0.00	\$97.88	\$88.67	1	\$186.55	\$88.67	\$250.00
Cat D8T - 8SU	53.08	\$102.55	\$125.45	2	\$456.00	\$250.90	\$500.00
CAT 966H	25.80	\$39.42	\$88.67	2	\$256.18	\$177.34	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	2	\$208.42	\$177.34	\$500.00
Power Mulcher (Bowie LD-90)	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
				Subtotals:	\$1,204,15	\$782.92	\$2.000.00

Subtotals: \$1,204.15 \$782.92 \$2,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
ANFO Bulk Delivery Truck	\$221.54	1	\$221.54	\$221.54
Cap Delivery Truck	\$54.00	1	\$54.00	\$54.00
Light Duty Pickup, 4x4, 1 T.	\$47.19	1	\$47.19	\$47.19
Crew				
Fuel Tanker, 6x4, 210 HP	\$59.64	1	\$59.64	\$59.64
		Subtotals:	\$382.37	\$382.37

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	TRINIDAD 65.00 65.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$14,380.22	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$764.74	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	1.33	NA
Unloading Time (Hours):	1.33	NA
Subtotals:	4.66	2.00

JOB TIME AND COST

Total job time: 9.32 Hours

Total job cost: ______\$15,145