May 2, 2016

Sean Mello Western Slope Aggregates, Inc. P.O. Box 1319 Carbondale, CO 81623



COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

RE: Blue Pit, Permit No. M-1981-207, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Mello:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$2,181,971</u> rounded down from <u>\$2,181,971.05</u>. This is an increase of <u>\$1,292,365</u> over the <u>\$889,606</u> currently held by the Division. This estimate is based on conditions observed during the October 28, 2015 inspection and subsequent discussions and document submittals from Western Slope Aggregates. *Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.* The additional amount needs to be accepted prior to **Friday, July 08, 2016**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511



Ec: Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS Barbra Coria, Financial Assurance Specialist, Denver DRMS

Enc: Financial Warranty Cost Estimate

COST SUMMARY WORK

Task descr	iption:	2016 Update			
e: Blue Pit		Permit Action:	2016 SI-2	Permit/Job	#: <u>M1981207</u>
PROJECT	<u>IDENTIFI</u>	<u>CATION</u>			
		~ ~			
Task #:	000	State: Colorado		Abbreviation:	None
Task #: Date:	000 5/2/2016	Colorado County: Colorado		Abbreviation: Filename:	None M207-000

TASK LIST (DIRECT COSTS)

Tock		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Demo on-site structures	DEMOLISH	1	80.00	\$45,195.15
02a	Transport backfill material to mining area 1	TRUCK1	2	239.85	\$537,359.00
03a	Placement of backfill material in mining area 1	DOZER] 4	561.25	\$584,249.00
04a	Rip pit floor/compacted areas	RIPPER] 1	30.28	\$6,729.00
05a	install grouted channels	POSTMINING] 1	159.96	\$41,285.00
05b	Catchment benches	GRADER] 1	4.44	\$674.00
05c	Energy Dissipation Rocks	TRUCK1	2	0.07	\$105.00
06a	Transport topsoil to pit floor	TRUCK1	2	95.88	\$205,486.00
07a	Placement of topsoil on sloped areas	DOZER	4	128.69	\$128,370.00
07b	Placement of topsoil on open pit areas	DOZER	4	21.56	\$21,507.00
08a	Reveg Rangeland	REVEGE	1	100.00	\$98,909.00
08b	Reveg Irrigated Pastureland	REVEGE	1	25.00	\$21,513.00
08c	Hay Mulch for \$150 a ton @ 2 tons/acre over 100	NA	1	0.00	\$30,000.00
	acres]		
09a	Initial mobilize reclamation crew/equipment	MOBILIZE	1	3.33	\$11,869.00
09b	Secondary mobilize reclamation crew/equipment	MOBILIZE	1	0.66	\$97.00
		<u>SUBT(</u>	DTALS:	1450.97	\$1,733,347

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$35,013.61
Performance bond:	1.05	Total =	\$18,200.14
Job superintendent:	500.00	Total =	\$37,240.00
Profit:	10.00	Total =	\$173,334.70
		TOTAL O & P =	\$263,788.45
		CONTRACT AMOUNT (direct + O & P) = $($	\$1,997,135.45

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	500.00 5.23	Total = Total =	500.00 \$104,450.18
Reclamation management and/or administration:	4.00	-	\$79,885.42
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$448,624.05
TOTAL BO	\$2,181,971.05		

DEMOLITION WORK

	Task description:	Demo on-si	te structures			
Site:	Blue Pit		Permit Action:	2016 SI-2	Permit/.	Job#: <u>M1981207</u>
<u>PROJE</u>	CT IDENTIFICATIO	<u>N</u>				
Task #	: 01A	State:	Colorado		Abbreviation:	None
Date	: 1/11/2016	County:	Garfield		Filename:	M207-01a
User	: ACY					
	Agency or organiza	tion name:	DRMS			

UNIT COSTS

Structure or Item **Demolition Menu** Unit **Total Cost** Dimensions Unit Quantity Description Selection Cost 40'W x 30'L x Demo. and on-site 2,040.00 Fuel containment SF \$1.49 \$3,047.76 disposal in excavated pit, 6'H 8 in. thick - Max. 200 ft. push Demo. and on-site Retaining wall 110'L x 8'H 880.00 SF \$2.34 \$2,056.56 disposal in excavated pit, 12 in. thick - Max. 50 ft. push 800' Powerline or telephone 800.00 LF \$2.68 \$2,144.00 Power line and poles line, overhead, wood -Single pole 40'W x 60'L x Bldg. (MN) demo./on-48,000.00 \$0.22 \$10,512.00 Mechanic Shop CF building 20'H site disposal in excavated pit - Max. 200 ft. push 30'W x 100'L x Office/scale house Bldg. (SN) demo./on-site 30,000.00 CF \$0.19 \$5,790.00 10'H disposal in excavated pit - Max. 200 ft. push Shop/office/apron 9140 sq. ft. Demo. and on-site 9,140.00 SF \$1.87 \$17,064.38 disposal in excavated pit, slab(s) 10 in. thick - Max. 200 ft. push 1600 sf x 8' H Bldg. (SN) demo./on-site 12,800.00 CF \$0.18 \$2,278.40 Misc shed/outbuildings disposal in existing pit or cut - Max. 200 ft. push 12'W x 70'L Scale Loading and 5 mile haul, 15.50 CY \$10.57 \$163.84 salvage allowed - Steel frame structures 12'W x 90'L SF \$1,165.32 Scale foundation Demo. and on-site 1,080.00 \$1.08 disposal in existing pit, 6 in. thick - Max. 200 ft. push

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$44,222.26	location):	\$45,195.15

Location adjustment: 102.20 %

TRUCK/LOADER TEAM WORK

tte: Blue Pit Permit Action: 2016 SI-2				Permit/Job#:	M1981207		
PROJECT IDEN	FIFICATION	Ī					
Task #: 02A		State: C	olorad	lo	Al	obreviation:	None
Date: $1/11/20$)16	County: <u>G</u>	arfield	1		Filename:	M207-02a
User: <u>ACY</u>							
Agency or o	organization nat	me: DRMS	5				
HOURLY EQUIP	MENT COS	<u>Γ</u>			Shift ba	sis: <u>1 per day</u>	
			Ec	quipment Descri	ption		
Tr	ruck Loader Tea	am -Truck:	Cat 7	73F			
Suppo	rt Fauinment -I	-Loader:		990H 98T - 8SU			
Suppo	-D	ump Area:	Cat D	08T - 8SU			
Road Maintenance – Motor Grader: CAT 14M							
	-Wa	ater Truck:	Wate	r Tanker, 7,000	Gal.		
Cost Breakdown:	Truck/Lo	ader Team		Support I	Equipment	Mainte	enance Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grad	er Water Truck
Utilization-machine:	100	100		100	100	50	50
Ownership cost/hour:	\$82.18	\$160.37		\$66.85	\$66.85	\$46.96	\$33.25
Operating cost/hour:	\$117.80	\$159.76		\$102.51	\$102.51	\$34.47	\$38.23
Ripper op. cost/hour:	NA	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$22.10	\$38.60		\$38.89	\$38.89	\$35.83	\$29.42
Unit Subtotals:	\$222.08	\$358.72		\$208.25	\$208.25	\$117.27	\$100.90
Number of Units:	4	2		1	1	1	1
Group Subtotals:	Work:	\$1,605.76		Support:	\$416.50	Mai	nt: \$218.17
Total work team cost	/hour: <u>\$2,240.</u> ANTITIES	43					
Initial volume:	359.647	(CCY	Swell	factor: 1.060		
Loose volume:	381.2	26	LCY				

HOURLY PRODUCTION

Truck Capacity:					
Truck Payload (weight) Basis:					
Material weight:	2,900	Pounds/LCY			
Description:	Sand and gravel - Dry				
Rated Payload:	122,520	Pounds			
Payload Capacity:	42.25	LCY			

\$0.00 \$0.00

chase Cost: _____ Total Cost: ____

Material Purchase Cost:

Truck/Loader	Worksheet	Cont'd
Truck Louder	W OIRDIECU	Com u

Truck Bed (volume) Basis:

Struck Volume:	35.00	LCY
Heaped Volume:	46.50	LCY
Average Volume:	40.75	LCY
Adjusted Volume:	42.25	LCY

Final Truck Volume Based on Number of Loader Passes: 32.91 LCY

Site Altitude (ft.): 7000 feet

Loading Tool Capacity

		Bucket Size Class: NA
Rated Capacity:	11.250	LCY (heaped)
Bucket Fill Factor:	0.975	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	10.969	LCY

Job Condition Corrections:

TruckLoaderSourceAltitude Adj:1.0001.000(CAT HB)Job Efficiency:0.8300.830(CAT HB)Net Correction:0.8300.8300.830

 Loading Tool Cycle Time:
 Number of Loading Tool Passes Required to Fill Truck:
 3
 passes

Excavators and Front Shovels:

 Machine Cycle Time vs. Job Condition Rating:
 NA

 Selected Value within this Basic Rating:
 NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA	Maneuver:	NA	Dump:	0.100	
Wheel and Track Loaders - Un	adjusted Basic Loader	Cycle Time (load,	dump, maneuver):	0.600	minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.080	minutes
	Adjusted Loader Cycle Time:	0.520	minutes
	Net Load Time per Truck:	1.140	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.140	Minutes	Adjusted for site altitude:	1.140	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	Minutes

Truck Travel (Haul & Return) Time:	Road Condition
penetration 5.0	

oad Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Rou	ite:							_
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	750.0	0	3.00	5.00	8.00	1023	0.790	
Return R	oute:				Haul Time:	0.790	minutes	S
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	750.0	0	-3.00	5.00	2.00	3569	0.394	
				Total Tru	Return Time: ock Cycle Time:	0.394 4.124	minut	tes tes
Loading Too Prod Truck Unit Prod	ol unit uction uction	1,073.03	LCY/Hour		Adjusted for j	ob efficiency:	890.61	LCY/Hour
	-	478.75	LCY/Hour		Adjusted for j	ob efficiency:	397.36	LCY/Hour
Optimal No. of T	rucks:	2	Truck(s)		Selected Numl	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 794	.73 LC	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 794	<u>.73</u> LC	Y/Hour
			Adjusted multip	le truck/loade	er team productio	on: 1,58	9.46 LC	Y/Hour
JOB TI	ME AN	D COST						
Fleet	size:	2	Team(s)	r.	Total job time:	239.8	85 H	Hours
Unit	cost:	\$1.410	/LCY		Total job cost:	\$537,3	359	

Page 1 of 2

BULLDOZER WORK

Task description:	Placement of backfill materia	al in mining area 1		
Blue Pit	Permit Action:	2016 SI-2	Permit/Job#:	M1981207
PROJECT IDENTIF	ICATION			
Task #:03A	State: Colorado		Abbreviation:	None
Date: $1/11/2016$	County: Garfield		Filename:	M207-03a
User: ACY				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405	; 			
Blade Type: Sen	ni-Universal	_		
Attachment: <u>3-sl</u>	hank ripper	_		
Data Source: (CE		_		
Data Source: (CF	(0)	_		
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$83.77	NA		
Operating Cost/Hour:	\$135.36	100		
Ripper on Cost/Hour	\$2.23	25		
	(°) 0 0 0	NΔ		
Operator Cost/Hour: Total unit Cost/Hour:	\$38.89 \$260.25 \$1.040.08			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$38.89 \$260.25 \$1,040.98			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$38.89 \$260.25 \$1,040.98 TTIES			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 359,	\$38.89 \$260.25 \$1,040.98 TTIES 647			
Mappel op: Cost Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor:	\$38.89 \$260.25 \$1,040.98 ITIES 647 0			
Mappel op. Cost Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.00 Loose volume: 359,	\$38.89 \$260.25 \$1,040.98 ITIES 647 0 647 LCY			
Mappel op. Cost Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: Loose volume: 359, Source of estimated volu	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY ne: Exhibit E & L			
Mappel op. Cost Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: Loose volume: 359, Source of estimated volur Source of estimated swell	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L factor: Cat Handbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.000 Loose volume: 359, Source of estimated volur Source of estimated swell	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L Cat Handbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.000 Loose volume: 359, Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L 1 factor: Cat Handbook FION			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.000 Loose volume: 359, Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L Cat Handbook TION 375 feet			
Mapper op: Cost Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.00 Loose volume: 359, Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L factor: Cat Handbook TION Cat Handbook Cat Handbook			
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Mapper op: cost float Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.000 Loose volume: 359, Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight:	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L 1 factor: Cat Handbook FION arciption: 375 feet ction: 327.8 LCY/hr arciption: Partly consolidated arciption 0 % 7,000 feet 2,900 lbs/LCY			
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Mapper op: cost float: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.00 Loose volume: 359, Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$38.89 \$260.25 \$1,040.98 TTIES 647 0 647 LCY me: Exhibit E & L 1 factor: Cat Handbook Cat Handbook Ethibit E & L 1 factor: Cat Handbook Cat Handbook Ethibit E & L 1 factor: 2375 feet ction: 375 feet ction: 327.8 LCY/hr scription: Partly consolidated at a stription: 0 % 7,000 feet 2,900 lbs/LCY Sand and gravel - Dry Factor Factor			
Mapper op: cost float: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 359, Swell factor: 1.000 Loose volume: 359, Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$38.89 \$260.25 \$1,040.98 G47 647 0 647 LCY me: Exhibit E & L 1 factor: Cat Handbook FION arright for the second state of the			
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Task # 03A

Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4887	

Adjusted unit production:	160.20 LCY/hr
Adjusted fleet production:	640.8 LCY/hr

JOB TIME AND COST

Fleet size:	4 Dozer(s)
Unit cost:	\$1.625/LCY

Total job time:	561.25 Hours
Total job cost:	\$584,249

BULLDOZER RIPPING WORK

	Task description	: Rip p	it floor/compacted area	s		
Site:	Blue Pit		Permit Action:	2016 SI-2	Permit/Job#	: M1981207
	PROJECT ID	ENTIFICATIO	<u>DN</u>			
	Task #: 04 Date: 1/1 User: AC	A 11/2016 CY	State: Colorado County: Garfield		Abbreviation: Filename:	None M207-04a
	Agency	or organization i	name: DRMS			
	HOURLY EQ	UIPMENT CO	<u>ST</u>			
	Basic Ripper Att	Machine: Cat tachment: 3-Sh	D8T - 8SU ank Ripper	_	Horsepower: Shift Basis:1 Data Source:(310 per day CRG)
	Cost Breakdown	<u>:</u>				
		Ownership Co	st/Hour \$73	32	Jtilization %	
		Operating Co	st/Hour: \$102	2.51	100	
	Rip	per Operating Co	st/Hour: \$7.4	46	100	
		Operator Co	st/Hour: \$38	89	NA	
		Total Unit Co	st/Hour: \$222			
		Total Fleet Co	st/Hour: \$222	.18		
	MATERIAL (<u>QUANTITIES</u>	Sele	cted estimating m	ethod: Area	
	Alternate Metho	<u>ds:</u>				
Seismic: Area:	NA 20.10	acres	Bank Volume:	NA 2.50	BCY Volume: 81,070	NA BCY or CC
		Source of estim	ated quantity: Exhibit	E & L		
	HOURLY PR	ODUCTION				
	Seismic:					
	<u>Seisinie.</u>	S	eismic Velocity:	NA	feet/second	
	Area:					
		Average	Ripping Depth:	2.56	mph	
		Average	Ripping Width:	7.08	degrees	
		Average	Ripping Length:	300.00	feet	
		Avera	ge Dozer Speed:	88.00	feet	
		Producti	on per unit area:	0.25	leet	
	Job Condition Co	orrection Factors				
	Ur	nadjusted Hourly	Unit Production:	0.800	Acres/hr	
			Site Altitude:	7,000	feet	
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.83	multiplier	
		Adjusted I Adjusted F	Hourly Unit Production: Iourly Fleet Production:	0.66 0.66	Acres/hr Acres/hr	
	JOB TIME AN	ND COST				
	Fleet size:	1	Grader(s)	Total job time:	30.29	Hours
	Unit cost:	\$334.797	Per acre	Total job cost:	\$6,729	

Post-Mining Drainage Channel Construction (Ditches)

e: Blue Pit Permit Action:			on: 2016 SI-2	2	Permit/Job#: M1981207		
Diacin				<u></u>	·		
PROJECT	IDENTIFIC	CATION					
Task #: $$	05A State: Colorado				Abbreviation	n: None	
Date:	1/11/2016	Cour	ity: Garfie		Filename	e: <u>M207-05a</u>	
	AC I						
Age	ency or organiz	zation name:	DRMS				
Channel	L	D	W (bot)	Slopes	W (top)	V/LF	V tot
	(ft)	(ft)	(ft)	(X:1)	(ft)	(CY)	(CY)
Grouted Channel	3,417	1.50	2.00	2.00	8.00	0.2778	949
BCPD-S:	CBCSLf	CBCSD	CBCSW	CBCSSx	CBCSTO	CBCSVL	CBCSVT
Totals:	3,417						949
I	,					I	
Riprap	Slope L	Surface Are	ea Rij	prap V			
BCPD-M:	36.028.86	36.029		667			
BCPD-S:	CBCSLS	CBCSSA	CB	CSRV			
Totals:		36,029		667			
Materials Ne	eded:						
Ga	otavtila (SV).	4 003					
	Ripran (CY):	667					
Exc	avation (CY):	949					
Material Cos	ts:						
Means Refe	rence 02340 3	00 1500 \$2	2.25				
Means Refe	Ripra rence 02370 4	ap (CY): \$4 50 0100	3.10				
	Excavatio	on (CY): \$3	8.71				
Means Refe	rence 02315 6	10 0062					
<u>Totals:</u>							
Ge	otextile (SY):	\$9,007.2	2				
	Riprap (CY):	\$28,756.3	37				
		\$2 521 4	1				
Exca	avation (CY):	\$5,521.4	1				
Exca <u>Hours:</u>	avation (CY):	\$5,521.4	<u> </u>				
Exca <u>Hours:</u> Ge	avation (CY): otextile (SY):		<u> </u>				
Exca <u>Hours:</u> Geo	otextile (SY): 87.5 SY/HR	45.75					
Exca <u>Hours:</u> Geo	otextile (SY): 87.5 SY/HR Riprap (CY):	45.75					
Exca <u>Hours:</u> Ge	otextile (SY): 87.5 SY/HR Riprap (CY): 7.75 CY/HR	45.75	<u> </u>				
Exca <u>Hours:</u> Ge Excavation	otextile (SY): 87.5 SY/HR Riprap (CY): 7.75 CY/HR n (CY): 33.75	45.75 86.09 28.12					

MOTOR GRADER WORK

Task description:	Catchment ber	nches			
Blue Pit	P	ermit Action:	2016 SI-2	Pe	rmit/Job#:
PROJECT IDENTIE	TICATION				
Task #· 05B	State	· Colorado		Abbr	eviation [.] None
Date: $\frac{1/11/2016}{4}$	County	: Garfield		F	ilename: M207-05b
Agency or orga	anization name:	ORMS			
HOURLY EOUIPM	ENT COST				
Basic Machin	e: CAT 14M			Horsepower:	259
Ripper Attachmer	nt:			Shift Basis:	1 per day
11				Data Source:	(CRG)
Cost Breakdown					
Cost Dicurdo will.				Utilization %	
Own	ership Cost/Hour:	<u>\$</u> 46	.96	NA	
Ope	erating Cost/Hour:	\$68	.95	100	
Ripper Ope	erating Cost/Hour:	\$0.	00		
Op	erator Cost/Hour:	\$35	.83	NA	
l ota	I Unit Cost/Hour:	\$151	l./4		
Tota	I Fleet Cost/Hour:	\$15]	1./4		
MATERIAL QUAN	<u>FITIES</u>				
Total Area	to be graded or rip	ped: 6.70			acres
Court	as of actimated area	· · · · · · · · · · · · · · · · · · ·	V 25 200' I		
Sour	ce of estimated acre	age. <u>8.25 v</u>	V X 33,399 L		
HOURLY PRODUC	TION				
	Average Grader	Speed:	1.75	mph	
	Selected Appli	cation:	Ditch build	ing/cleaning (0-3	mph) - 1.75
	Selected Blade	Angle:	45	degrees	
	Effective Blade I	ength:	9.90	feet	
Width Nat and in a	of blade overlap pe	er pass:	2.00	feet	
Inet grading	d Hourly Unit Prod	r pass:	1.90	leet	ur.
Job Condition Correction	n Factors	<u></u>	1.0756 Si	te Altitude: 7000 t	feet
		Source		<u></u>	
Altitude Adj:	1.00	(CAT HE	3)		
Job Efficiency:	0.90	(1sh/d, fav	/.)		
Net Correction:	0.9000	multiplier			
1	Adjusted Hourly Ur	it Production:	1.5082	acres/Hour	
A	Adjusted Hourly Fle	et Production:	1.5082	acres/Hour	
				-	
JOB TIME AND CO	<u>ST</u>				
Fleet size:	1 Grader(s)	Total job time	: 4.44	Hours
Unit aget: \$10	0.61		Total ich and		
Unit cost: \$10	per acre		i otal job cost	. 3074	

TRUCK/LOADER TEAM WORK

Site: Blue Pit		Permit	t Acti	on: 2016 SI-2		Permit/Job#: M	1981207
PROJECT IDEN	TIFICATION	<u>[</u>					
Task #: 05C Date: 1/11/2 User: ACY	2016	State: County:	Colora Garfie	ado eld	A	bbreviation: <u>No</u> Filename: <u>M2</u>	ne 207-05c
Agency or	organization nat	me: DRM	IS				
HOURLY EQUI	PMENT COS	<u>r</u>			Shift ba	sis: <u>1 per day</u>	
			0.1	Equipment Descri	ption		
1	Truck Loader Tea	-Loader:	Cat	775F T 990H			
Supp	ort Equipment -I	Load Area:	Cat	D8T - 8SU			
	-D	ump Area:	Cat	D8T - 8SU			
Koad M	aintenance – Mot -Wa	or Grader: iter Truck:	- CA Wa	1 14M ter Tanker, 7.000	Gal		
		aller Track.	,, u	ter Funcer, 7,000	- Cull		
<u>Cost Breakdown</u> :	Truck/Lo	ader Team		Support 1	Equipment	Maintenar	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100		0	0	0	0
Ownership cost/hour:	\$82.18	\$160.3	7	\$66.85	\$66.85	\$46.96	\$33.25
Operating cost/hour:	\$117.80	\$159.7	6	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$22.10	\$38.60)	\$38.89	\$38.89	\$35.83	\$29.42
Unit Subtotals:	\$222.08	\$358.7	2	\$105.74	\$105.74	\$82.79	\$62.67
Number of Units:	2	2		1	1	1	1
Group Subtotals:	Work:	\$1,161.60		Support:	\$211.48	Maint:	\$145.46
Total work team cos MATERIAL QU	st/hour: <u>\$1,518.</u> [ANTITIES]	54					
Initial volume: Loose volume:	: <u>40</u> : <u>40</u>		CCY LCY	Swell	factor: <u>1.000</u>		
So Source	urce of estimated	volume:	Divis Exhi	sion of Reclamation	on, Mining & Sat	fety	
	Material Purch	ase Cost:	\$0.00 \$0.00)			
HOURLY PRO	DUCTION						
Truck Capacity: Truck Payload (wei	ght) Basis:			Dounda/I CV			

Truck/Loader	Worksheet	Cont'	d
Truck Louder	W OIRDIECT	Com	u

Truck Bed (volume) Basis:

35.00	LCY
46.50	LCY
40.75	LCY
40.84	LCY
	35.00 46.50 40.75 40.84

Final Truck Volume Based on Number of Loader Passes: 40.50 LCY

Site Altitude (ft.): 7000 feet

Loading Tool Capacity

		Bucket Size Class: NA
Rated Capacity:	11.250	LCY (heaped)
Bucket Fill Factor:	0.450	Rock - Poorly blasted (40% - 50%) 0.450
Adjusted Capacity:	5.063	LCY

Job Condition Corrections:

TruckLoaderSourceAltitude Adj:1.0001.000(CAT HB)Job Efficiency:0.8300.830(CAT HB)Net Correction:0.8300.8300.830

 Loading Tool Cycle Time:
 Number of Loading Tool Passes Required to Fill Truck:
 8
 passes

Excavators and Front Shovels:

 Machine Cycle Time vs. Job Condition Rating:
 NA

 Selected Value within this Basic Rating:
 NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:	NA	Maneuver:	NA	Dump:	0.100
=		-		-	

 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):
 0.600
 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.090	minutes
	Adjusted Loader Cycle Time:	0.510	minutes
	Net Load Time per Truck:	3.670	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	3.670	Minutes	Adjusted for site altitude:	3.670	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	Minutes

Truck Travel (Haul & Return) Time:	Road Cond
penetration 5.0	

oad Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Rou	ite:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1000.	.00	3.00	5.00	8.00	1023	1.034	
Return R	outer				Haul Time:	1.034	minutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1000.	.00	-3.00	5.00	2.00	3569	0.464	
				Total Tru	Return Time: ck Cycle Time:	0.464 6.968	minute minute	es es
Loading Too Produ Truck Unit Produ	ol unit uction	556.06	LCY/Hour		Adjusted for j	ob efficiency:	461.53	LCY/Hour
		348.74	LCY/Hour		Adjusted for j	ob efficiency:	289.45	LCY/Hour
Optimal No. of T	rucks:	2	Truck(s)		Selected Numb	per of Trucks:	1	Truck(s)
			Adjuste Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	289 on: 289 on: 289 on: 578	.45 LCY .45 LCY .90 LCY	//Hour //Hour //Hour
JOB TI	ME AN	ND COST						
Fleet	size:	2	Team(s)]	Fotal job time:	0.07	He	ours
Unit	cost: _	\$2.623	/LCY	,	Total job cost:	\$105	5	

TRUCK/LOADER TEAM WORK

Site: Blue Pit		Permit Action	on: 2016 SI-2		Permit/Job#:	M1981207
PROJECT IDEN	TIFICATION	I				
Task #: 06A Date: 1/11/2 User: ACY	2016	State: <u>Colora</u> County: <u>Garfie</u>	ado Eld	A	bbreviation: Filename:	None M207-06a
Agency of	organization nat	me: DRMS				
HOURLY FOUI	PMENT COS'	Г		Shift b	asis: 1 ner dav	
<u>moondr Equi</u>		- .	Equipment Descri	ntion	<u>1 per day</u>	
	Fruck Loader Tea	um -Truck: Cat	773F	puon		
		-Loader: CA	Т 990Н			
Supp	ort Equipment -I	Load Area: Cat	D8T - 8SU			
Dood M	-D	ump Area: Cat	<u>D8T - 8SU</u> T 14M			
Koau IVI	-Waintenance – woot	of Offauer. CA	ter Tanker, 7.000	Gal		
				Oui		
Cost Breakdown:	Truck/Lo	ader Team	Support l	Equipment	Mainte	nance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grad	er Water Truc
%Utilization-machine:	100	100	100	5	50	50
Ownership cost/hour:	\$82.18	\$160.37	\$66.85	\$66.85	\$46.96	\$33.25
Operating cost/hour:	\$117.80	\$159.76	\$102.51	\$5.13	\$34.47	\$38.23
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$22.10	\$38.60	\$38.89	\$38.89	\$35.83	\$29.42
Unit Subtotals:	\$222.08	\$358.72	\$208.25	\$110.87	\$117.27	\$100.90
Number of Units:	4	2	1	1	1	1
Group Subtotals:	Work:	\$1,605.76	Support:	\$319.12	Main	nt: \$218.17
Total work team co MATERIAL QU	st/hour: <u>\$2,143.</u> J <mark>ANTITIES</mark>	05				
Initial volume	· 161 333	CCY	Swell	factor: 1 000		
Loose volume	: 161,35	33 LCY		1.000		
۲ <u>۰</u>	urce of estimator	volume: Divid	sion of Reclamatic	on Mining & So	fety	
Source	of estimated swe	ell factor: Exhi	bit E & L	m, winning & Sa	icty	
Source	Material Purch	ase Cost: \$0.00	0			
	Т	otal Cost: \$0.00	0			

Tuck I uyloud (weight) Dub	15.	
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	_
Rated Payload:	122,520	Pounds
Payload Capacity:	76.58	LCY

orksheet Cont'd

THUCK DEU (VOIUIIIE) Dasis.

35.00	LCY
46.50	LCY
40.75	LCY
46.50	LCY
	35.00 46.50 40.75 46.50

Final Truck Volume Based on Number of Loader Passes: 41.63 LCY

Site Altitude (ft.): 7000 feet

Loading Tool Capacity

		Bucket Size Class:	NA
Rated Capacity:	11.250	LCY (heaped)	
Bucket Fill Factor:	0.925	Loose material - 1/8" to 3/8" (90 - 95%) 0.925	
Adjusted Capacity:	10.406	LCY	

Task # 06A

Job Condition Corrections:

 Truck
 Loader
 Source

 Altitude Adj:
 1.000
 1.000
 (CAT HB)

 Job Efficiency:
 0.830
 0.830
 (CAT HB)

 Net Correction:
 0.830 0.830 0.830

 Loading Tool Cycle Time:
 Number of Loading Tool Passes Required to Fill Truck:
 4
 passes

Excavators and Front Shovels:

 Machine Cycle Time vs. Job Condition Rating:
 NA

 Selected Value within this Basic Rating:
 NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load:	NA	Maneuver:	NA	Dump:	0.100
-		-		-	

 Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver):
 0.600
 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.090	minutes
	Adjusted Loader Cycle Time:	0.510	minutes
	Net Load Time per Truck:	1.630	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.630	Minutes	Adjusted for site altitude:	1.630	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	Minutes

Truck Travel (Haul & Return) Time:	Road Co
penetration 5.0	

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire</u>

Haul Rou	te:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1000.	00	3.00	5.00	8.00	1023	1.034	
Doturn D					Haul Time:	1.034	minutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
1	1000.	00	-3.00	5.00	2.00	3569	(min) 0.464	
				Total Tru	Return Time: ock Cycle Time:	0.464 4.928	minute	S S
Loading Too Produ Truck Unit Produ	ol unit	1,071.89	LCY/Hour		Adjusted for j	ob efficiency:	889.67	LCY/Hour
		506.80	LCY/Hour		Adjusted for j	ob efficiency:	420.64	LCY/Hour
Optimal No. of Tr	rucks:	2	Truck(s)		Selected Numb	ber of Trucks:	2	Truck(s)
			Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	Son: 841 son: 841 son: 1,682	.28 LCY .28 LCY .27 LCY	7/Hour 7/Hour 7/Hour
JOB TI	ME AN	D COST						
Fleet	size:	2	Team(s)	-	Total job time:	95.8	8 Ho	ours
Unit	cost:	\$1.274	/LCY		Total job cost:	\$205,4	86	

BULLDOZER WORK

Blue Pit Permit Action: 2016 S1-2 Permit/Job#: M1981207 PKDJECT IDENTIFICATION Task 4: 07A State: Colorado Abbreviation: None Date: 1/11/2016 County: Garifield Permit/Job#: M207-07a Use: ACY Agency or organization name: DRMS HOURLY EQUIPMENT COST Balac Pyre: Semit Gaissi Per day Data Source: (CRG) County: Sint Basis: Per day Data Source: (CRG) County: Sint Basis: Per day Data Source: (CRG) 25 Operating Cost/Hour: \$353.56 100 Ripper op. Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$3997.48 NA Dotal unit Cost/Hour: 128.905 Swell factor: Cat Handbook	Task description:	Placement of topsoil on slop	ed areas		
Display in the image of the image	: Blue Pit	Permit Action:	2016 SI-2	Permit/Job#:	M1981207
Task #: 07A State: Colorado Abbreviation: None Duse: L/1L/2016 Couny: Garfield Filename: M207-07a Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D9T - 9SU Horsepower: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$75.12 NA Operating Cost/Hour: \$135.36 100 Ripper op. Cost/Hour: \$135.36 100 Operator Cost/Hour: \$249.37 Total Init Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$299.37 Total Fleet Cost/Hour: \$299.5 Source of estimated volume: 128.905 Swell factor: Cat Handbook HOURLY PRODUCTION Asternate woll factor: Cat Handbook Material sonsistency description: Lose stockpile 1.2 Average site altitude: 7.000 feet	PROJECT IDENTIF	ICATION			
Date: $1/1/2016$ County: Garfield Filename: $M207-07a$ Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D97 - 9SU Horsepover: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: NA Ownership Cost/Hour: \$135.36 Operating Cost/Hour: \$30.00 25 Operator Cost/Hour: S249.37 Total unit Cost/Hour: Total unit Cost/Hour: \$249.37 Total Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$249.37 Total Volume: 128.905 Swell factor: 1.000 Loose volume: 128.905 Swell factor: 1.000 Loose volume: 225 feet Unadjusted hourly production: 388.9 LCY/hr Material consistency description: Loose stockpile 1.2 Average push distance: 7.000 feet Material weight: 1.600 l	Task #: 07A	State: Colorado		Abbreviation:	None
User: <u>ACY</u> Agency or organization name: <u>DRMS</u> HOURLY EQUIPMENT COST Basic Machine: Cat D97 - 9SU Horseyower: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: <u>1per day</u> Data Source: (CRG) Cost Breakdown: <u>Utilization %</u> Ownership Cost/Hour: \$153.36 Operating Cost/Hour: \$153.36 Operator Cost/Hour: \$249.37 Total Piet Cost/Hour: \$997.48 MATERIAL QUANTITIES	Date: 1/11/2016	County: Garfield		Filename:	M207-07a
Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D9T - 9SU Horsepower: 405 Balad Type: Semi-Universal Attachment: NA Shift Basis: Tper day Data Source: (CRG) Cost Breakdown: NA Ownership Cost/Hour: \$75.12 NA Operating Cost/Hour: \$135.36 100 Ripper op. Cost/Hour: \$249.37 Total unit Cost/Hour: \$249.37 Total relet Cost/Hour: \$249.37 Total relet Cost/Hour: \$249.37 Swill factor: 1000 Loss volume: 128.905 Swill factor: 1000 Loss volume: 128.905 Swill factor: Cat Handbook Hoarial consistency description: Lose stotckpile 1.2 Average push distance: \$25 feet marial sconsistency description: Lose stotckpile 1.2 Average site altitude: 7.000 feet Material consistency description: Tose stotckpile 1.2 Average site altitude: 7.000 feet	User: ACY				
HOURLY EQUIPMENT COST Basic Machine: Cat D9T - 9SU Horsepower: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: CGG) Cost Breakdown: \$155.36 Ownership Cost/Hour: \$135.36 Operating Cost/Hour: \$135.36 Operator Cost/Hour: \$38.89 NA Source Operator Cost/Hour: \$249.37 Total mit Cost/Hour: \$29.74 Material Volume: 128.905 Swell factor: 1.000 Loose volume: 128.905 Swell factor: .1000 Loose volume: 128.905 Swell factor: .1000 Loose volume: 128.905 Swell factor: .1000 Loose volume: 128.905 Swell factor: .102.905 Loose volume: 128.905 Swell factor: .1000 Loose volume: 128.905 Average sita distance: .325 fcet Unadjust	Agency or organ	nization name: DRMS			
Basic Machine: Cat DOT - 9SU Horsepower: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Ownership Cost/Hour: \$75.12 NA Operating Cost/Hour: \$135.36 100 Ripper op. Cost/Hour: \$38.89 NA Operator Cost/Hour: \$249.37 Total unit Cost/Hour: \$249.37 Total Cost/Hour: \$249.37 Total Piet Cost/Hour: \$997.48 MATERIAL QUANTITIES Initial Volume: 128,905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average site altitude: 7.000 feet Unadjusted hourly production: 388.9 LCY/hr Material weight: 1.600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operat	HOURLY EQUIPME	<u>ENT COST</u>			
Horsepower: 405 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$135.36 100 Ripper op. Cost/Hour: \$30.00 25 Operator Cost/Hour: \$30.00 25 Operator Cost/Hour: \$38.89 NA Total unit Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$997.48 MATERIAL QUANTITIES Initial Volume: 128,905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 325 feet Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0,750 Material weight: 1,0000	Basic Machine: Cat	D9T - 9SU			
Blade Type: Semi-Universal Attachmetri NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: NA Ownership Cost/Hour: \$135.36 Operating Cost/Hour: \$135.36 Ripper op. Cost/Hour: \$38.89 NA Source Operator Cost/Hour: \$249.37 Total unit Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$38.90 MATERIAL QUANTITIES Initial Volume: 128.905 Swell factor: 1000 Loose volume: 128.905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 325 feet Madjusted hourly production: 388.9 LCY/hr Material consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil	Horsepower: 405	5			
Attachment: NA Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Ownership Cost/Hour: \$135.36 100 Ripper op. Cost/Hour: \$0.00 25 Operator Cost/Hour: \$249.37 Total unit Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$997.48 MATERIAL QUANTITIES Initial Volume: 128,905 Swell factor: 1.000 Loose volume: Exhibit E & L Source of estimated volume: Cat Handbook HOURLY PRODUCTION Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7.000 feet Material weight: 1.600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor: Source Operator Skill: 0.750 Material weight: 1.000 Visibility: 1.000 <t< td=""><td>Blade Type: Ser</td><td>ni-Universal</td><td></td><td></td><td></td></t<>	Blade Type: Ser	ni-Universal			
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Total unit Cost/Hour: \$249.37 Total Fleet Cost/Hour: \$997.48 MATERIAL QUANTITIES Initial Volume: 128,905 Swell factor: 1.000 Loose volume: 128,905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 1.200 Material consistency: 1.200 (AVG.) Material consistency: 1.000 (AVG.) Material consistency: 0.200 (AVG.) Material weight: 0.000 (AVG.) Material consistency: 0.200 (CAT HB) D	Operator Cost/Hour.	\$30.09	NA		
Total Fleet Cost/Hour: \$997.48 MATERIAL QUANTITIES Initial Volume: 128,905 Swell factor: 1.000 Loose volume: 128,905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0,750 (AVG,) Material consistency: 1.200 (CAT HB) Dozing method: 1.000 (AVG,)	Total unit Cost/Hour:	\$249.37			
MATERIAL QUANTITIES Initial Volume: 128,905 Swell factor: 1.000 Loose volume: 128,905 LCY Source of estimated volume: Exhibit E & L Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material onsistency: 1.200 Usibility: 1.000 Usibility: 1.000 Usibility: 1.000 Visibility: 1.000 Average it altitude: 1.000 Operator Skill: 0.750 Operator Skill: 0.750 Operator Skill: 0.020 Operator Skill: 0.020	Total Fleet Cost/Hour:	\$997.48			
HOURLY PRODUCTION Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Material consistency: 1.200 Material consistency: 1.200 Material consistency: 0.750 Material consistency: 1.200 Material consistency: 1.000 Material consistency: 0.000 Material consistency: 1.000 Material consistency: 0.000 Material consistency: 0.000 Material consistency: 0.000 Material consistency: 0.000	Swell factor:1.00Loose volume:128,Source of estimated voluSource of estimated swell	0 905 LCY me: Exhibit E & L l factor: Cat Handbook			
Average push distance: 325 feet Unadjusted hourly production: 388.9 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Visibility: 1.000 Visibility: 0.000	HOURLY PRODUCT	<u>FION</u>			
Unadjusted hourly production:	Average nush distance	325 feet			
Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Veisibility: 1.000 Visibility: 1.000 Visibility: 0.000	Unadjusted hourly produce	ction: 388.9 LCY/hr			
Materials consistency description: Loose stockpile 1.2 Average push gradient: 15 % Average site altitude: 7,000 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200 Visibility: 1.000 Visibility: 1.000 Visibility: 1.000 Visibility: 0.000	jan i z z z z z j produ				
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Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 1.200 (CAT HB) Dozing method: 1.000 (GEN.) Visibility: 1.000 (AVG.)	Average push gradient: Average site altitude:	15 % 7,000 feet			
Weight description:Top SoilJob Condition Correction FactorSourceOperator Skill:0.750Material consistency:1.200Dozing method:1.000Visibility:1.000Visibility:0.920	Material weight:	1,600 lbs/LCY		_	
Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)Dozing method:1.000(GEN.)Visibility:1.000(AVG.)	Weight description:	Top Soil			
Operator Skii:0.750(AVG.)Material consistency:1.200(CAT HB)Dozing method:1.000(GEN.)Visibility:1.000(AVG.)	Job Condition Correction	Factor	Source		
Dozing method:1.200(CAT HB)Visibility:1.000(GEN.)Visibility:1.000(AVG.)	Uperator Material consist	SKIII: U./3U ency: 1.200			
Visibility: 1.000 (AVG.)	Dozing me	thod: 1.000	(CAT IID) (GEN.)		
	Visit	bility: 1.000	(AVG.)		
In $(1 \text{ SHIFT}/\text{DAY})$	Ioh efficie	ency: 0.830	(1 SHIFT/DAV)	

Task # 07A

Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6439	

Adjusted unit production:	250.41 LCY/hr
Adjusted fleet production:	1001.64 LCY/hr

JOB TIME AND COST

Fleet size:	4 Dozer(s)
Unit cost:	\$0.996/LCY

Total job time:	128.69 Hours
Total job cost:	\$128,370

BULLDOZER WORK

Task description:	Placement of topsoil on open	ı pit areas		
e: Blue Pit	Permit Action:	2016 SI-2	Permit/Job#:	M1981207
PROJECT IDENTIF	ICATION			
Task #: 07B	State: Colorado		Abbreviation:	None
Date: 1/11/2016	County: Garfield		Filename:	M207-07b
User: ACY				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405	5			
Blade Type: Sen	ni-Universal			
Attachment: NA	<u>.</u>			
Shift Basis: <u>I pe</u>	er day			
	(U)			
Cost Breakdown:		TT-'1' 04		
Aunorship Cost/Hours	\$75.10	Utilization %		
Ownership Cost/Hour:	\$135.36	100		
Ripper on, Cost/Hour:	\$135.50	25		
Operator Cost/Hour:	\$38.89	NA		
	()			
Total unit Cost/Hour:	\$249.37			
Swell factor: 1.00	28 0 28 L CY			
2003e volume. <u>52,4</u>				
Source of estimated volum	me: Exhibit E & L			
Source of estimated swell	Tactor: <u>Cat Handbook</u>			
HOURLY PRODUCT	<u>FION</u>			
Average push distance:	325 feet			
Unadjusted hourly produc	ction: 388.9 LCY/hr			
Materials consistency des	cription: Loose stockpile 1.2			
Average push gradient:	0 %			
Average site altitude:	/,000 teet			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
Job Condition Correction	Factor 0.750	Source		
Operator S	Skill: 0.750	(AVG.)		
Material consiste	the d: 1.200	(CAT HB)		
Visih	bility: 1 000	(OEN.)		
Job efficie	ency: 0.830	(1 SHIFT/DAY	<u> </u>	
300 emer	0.050		/	

Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9668	

Adjusted unit production:	375.99 LCY/hr
Adjusted fleet production:	1503.96 LCY/hr

JOB TIME AND COST

Fleet size:	4 Dozer(s)
Unit cost:	\$0.663/LCY

Total job time:	21.56 Hours
Total job cost:	\$21,507

REVEGETATION WORK

Task descri	ption:	Reveg Rangeland			
te: Blue Pit		Permit Action:	2016 SI-2	Permit/Jol	o#: <u>M1981207</u>
PROJECT		CATION			Nam
Task #:	08A	State: Colorado		Abbreviation:	None
	1/11/2016	County: Garfield		Filename:	M207-08a
Date:					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application 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	2.50	8.09	\$16.88
Mountain Brome - Bromar	3.75	6.03	\$12.79
Slender Wheatgrass - Pryor	5.00	18.25	\$15.50
Thickspike Wheatgrass - Critana	5.00	17.68	\$25.90
Rabbitbrush, Rubber	2.00	29.80	\$74.66
Western Wheatgrass - Barton	5.00	12.63	\$18.45
Needlegrass, Green - Lodorm	3.75	15.58	\$20.25
Saltbush, Four Wing	2.00	2.75	\$21.88
		110.81	\$206.30

Totals Seed Mix	29.00

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.56	\$16.56
Total Mulch Materials Cost/Acre				\$16.56

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$97.14
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$225.88

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	79.9	Cost /Acre:	\$990.33
Estimated Failure Rate:	25%	Cost /Acre*:	\$990.33
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING	

Initial Job Cost:	\$79,127.37
Reseeding Job Cost:	\$19,781.84
Total Job Cost:	\$98,909
Job Hours:	100.00

REVEGETATION WORK

Task des	cription:	Reveg Irrigated Pastureland			
Site: Blue	Pit	Permit Action:	2016 SI-2	Permit/Job	#: <u>M1981207</u>
PROJE(CT IDENTIFIC	CATION			Nama
Task Dat	#: 08B re: $1/11/2016$	County: Garfield		Abbreviation: 	M207-08b
Use	er: ACY				

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Ac	re sa aa

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
Meadow Brome - Fleet	7.00	6.43	\$18.48
Orchardgrass - Potomac	8.00	99.17	\$16.16
Alfalfa - Ladak (inoculated)	12.00	57.85	\$37.56
Totals Seed Mix	27.00	163.45	\$72.20

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$434.00

Total Seed Application Cost/Acre \$4

e \$434.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.56	\$16.56
Total Mulch Materials Cost/Acre				\$16.56

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$97.14
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$225.88

NURSERY STOCK PLANTING

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

JOB TIME AND COST

Estimate	No. of Acres: ed Failure Rate:	20.1 25%	_ Cost /A Cost /Ac	cre: re*:	\$856.23 \$856.23	
*Selected Replanti	ng Work Items:	TILLING,SEEDI	NG,MULCHING	_		
Initial Job Cost:	\$17,210.22					
Reseeding Job Cost:	\$4,302.56					
Total Job Cost:	\$21,513					
Job Hours:	25.00					

March 15, 2016

Permit Number :M-1981-207 Permit Action: 2016 SI-2 Task 08c

Division of Reclamation Mining and Safety Attn: Amy Yeldell 1313 Sherman St, Room 215 Denver, CO 80203

RE: Blue Pit, Permit No M1981.207 Estimated Reclamation costs update.

As owner of the Blue Pit and Adjacent ranch, the Dolores (Dee B. Blue Revocable Trust, will provide the division with hay for reclamation upon the forfeiture of the bond at a rate of \$150.00 per ton for the 200 tons necessary to reclaim the estimated 100 acre site.

Kolores (hlac) B. Blue

Dolores (Dee) B. Blue Revocable Trust and Dee Blue

Doloris Blue appeared in person on March 15, 2016. In Garfield County, State of Colorado.

PEGGY E. RIPPY NOTARY PUBLIC STATE OF COLORADO NOTARY ID #19964018779 My Commission Expires November 5, 2016

EQUIPMENT MOBILIZATION/DEMOBILIZATION

				quipinent			
Blue Pit		Permit	Action: _2016	SI-2	1	Permit/Job#:	M1981207
PROJECT IDE	ENTIFICATI	ON					
Task #: 09	A	State: Co	olorado		Abbre	eviation: No	ne
Date: 1/	11/2016	County: Ga	arfield		Fi	lename: M2	207-09a
User: A	CY						
Agency	or organization	n name: DRMS					
Agency	or organization						
FOLIDMENT		T DIC COST					
EQUIPMENT	IKANSPUK	<u>1 KIG CUS1</u>					
					Shift ba	sis: 1 per	day
				(Cost Data Sour	rce: CRG	Data
- The second sec	1 T						
Truc	K Tractor Desc	ription: GENE	KIC ON-HIGH	WAY TRU	JCK TRACT(\mathcal{O} K, 6X4, DIES	EL POWERED,
_				400 HP	(2ND HALF,	2006)	
Tru	ck Trailer Desc	ription: G	ENERIC FOLI	DING GOC	DSENECK, DF	ROP DECK EQ	UIPMENT
			,	TRAILER	(25T, 50T, AN	ND 100T)	
Tost Breakdown:				TRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown:				TRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown: Available Rig (Capacities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown: Available Rig (Ownershi	C apacities p Cost/Hour:	0-25 Tons \$16.63	26-50 Tons \$18.37	TRAILER 51- \$2	(25T, 50T, AN + Tons 22.33	ND 100T)	
Cost Breakdown: Available Rig (Ownershi Operatin	C apacities p Cost/Hour: g Cost/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	TRAILER 51- \$2 \$2 \$3	(25T, 50T, AN + Tons 22.33 50.07	ND 100T)	
<u>Cost Breakdown:</u> Available Rig (Ownershi Operatin Operato	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	TRAILER 51- \$2 \$2 \$2 \$3 \$2	(25T, 50T, AN + Tons 22.33 50.07 27.66	ND 100T)	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	TRAILER 51- \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$: \$:	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39	ND 100T)	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	Simple \$1- \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	ND 100T)	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	Simple 51- \$1 \$1 \$1 \$1 \$2 \$2 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$4 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	ND 100T)	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	TRAILER 51- \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	<u>ND 100T)</u>	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: r Cost/Hour: it Cost/Hour: BLE EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	TRAILER 51- \$2 \$3 \$3 \$3 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	<u>ND 100T)</u>	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAL	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	Simple 51- \$2 \$3 \$3 \$3 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip	ND 100T)	DOT Permit
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	TRAILER 51- \$2 \$3 \$3 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	ND 100T) Return Trip Cost/hr/ flee	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS)	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t	TRAILER 51- \$2 \$3 \$3 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	ND 100T) Return Trip Cost/hr/ flee	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45	TRAILER 51- \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18	ND 100T) Return Trip Cost/hr/ flee \$501.80	t DOT Permit Cost/ fleet \$500.00
Cost Breakdown: Available Rig (Ownershi Operatin Operator Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 773F	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 49.74	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10 \$65.23	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45 \$117.55	TRAILER 51- \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$4	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18 \$731.12	ND 100T) Return Trip Cost/hr/ flee \$501.80 \$470.20	t DOT Permit Cost/ fleet \$500.00 \$500.00
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 773F CAT 990H	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit (TONS) 66.13 49.74 83.34	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10 \$65.23 \$129.39	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45 \$117.55 \$125.45	TRAILER 51- \$:	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18 \$731.12 \$509.67	ND 100T) Return Trip Cost/hr/ flee \$501.80 \$470.20 \$250.90	t DOT Permit Cost/ fleet \$500.00 \$250.00
Cost Breakdown: Available Rig (Ownershi Operatin Operator Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 773F CAT 990H CAT 14M	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 49.74 83.34 23.57	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10 \$65.23 \$129.39 \$42.03	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45 \$117.55 \$125.45 \$88.67	TRAILER 51- \$:	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18 \$731.12 \$509.67 \$130.70	ND 100T) Return Trip Cost/hr/ flee \$501.80 \$470.20 \$250.90 \$88.67	t DOT Permit Cost/ fleet \$500.00 \$250.00 \$250.00
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 773F CAT 990H CAT 14M Water Tanker,	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 49.74 83.34 23.57 29.65	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10 \$65.23 \$129.39 \$42.03 \$32.60	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45 \$117.55 \$125.45 \$88.67 \$117.55	TRAILER 51- \$:	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18 \$731.12 \$509.67 \$130.70 \$150.15	ND 100T) Return Trip Cost/hr/ flee \$501.80 \$470.20 \$250.90 \$88.67 \$117.55	t DOT Permit Cost/ fleet \$500.00 \$250.00 \$250.00 \$250.00 \$250.00
Cost Breakdown: Available Rig (Ownershi Operatin Operator Helpo Total Un NON ROADAI Machine Description Cat D9T - 9SU Cat 773F CAT 990H CAT 14M Water Tanker, 7,000 Gal.	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit (TONS) 66.13 49.74 83.34 23.57 29.65	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$81.10 \$65.23 \$129.39 \$42.03 \$32.60	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$125.45 \$117.55 \$125.45 \$88.67 \$117.55	TRAILER 51- \$:	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$826.18 \$731.12 \$509.67 \$130.70 \$150.15	ND 100T) Return Trip Cost/hr/ flee \$501.80 \$470.20 \$250.90 \$88.67 \$117.55	t DOT Permit Cost/ fleet \$500.00 \$250.00 \$250.00 \$250.00 \$250.00

Subtotals: **\$2,528.04** \$1,546.67 \$2,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T.	\$20.91	1	\$20.91	\$20.91
Crew				
Drill/Broadcast Seeder with	\$75.35	1	\$75.35	\$75.35
Tractor				
Power Mulcher (Reinco M90)	\$48.76	1	\$48.76	\$48.76
		Subtotals:	\$145.02	\$145.02

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GLENWOOD SPRINGS	_
Total one-way travel distance:	15.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$11 772 55	
'* two round trips with haul rig:	φ11,772.55	_
Total Roadable Mob/Demob Cost **	\$06.68	
** one round trip, no haul rig:	\$90.08	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job time: **3.33** Hours

Total job cost: \$11,869

EQUIPMENT MOBILIZATION/DEMOBILIZATION

I	Blue Pit		Permit	Action: _2016	SI-2		Permit/Job	o#: _ M	1981207
PRO	OJECT IDE	NTIFICATI	ON						
	Task #: 091	3	State: Co	olorado		Abbro	eviation:	None	
	Date: 1/1	1/2016	County: Ga	arfield		F	ilename:	M207	7-09b
	User: AC	Y							
	Agency	or organization	n name: DRMS						
		-							
EQI	UIPMENT 7	FRANSPOR	<u>T RIG COST</u>						
						Shift ba	isis [.] 1	l ner da	V
					C	lost Data Sou	rce: C	RG Da	ita
	T	- T D	cente						
	I TUCI	k Tractor Desc	ripuon: GENE	KIC UN-HIGH	WAYIKU	CK IRACIO	JK, 6A4, I	JIESEI	L POWERED,
					400 HP	(2ND HAIF)	2006)		
	Truc	k Trailer Desc	ription: G	ENERIC FOLI	400 HP	(2ND HALF, SENECK DE	2006) 2008 DECI	K FOU	IPMENT
	Truc	k Trailer Desc	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER ((<u>2ND HALF,</u> SENECK, DF 25T, 50T, AN	2006) ROP DECI ND 100T)	K EQU	IPMENT
0	Truc	k Trailer Desc	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER ((2ND HALF, SENECK, DF 25T, 50T, A1	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost	Truc t Breakdown:	k Trailer Desc	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER ((2ND HALF, SENECK, DF 25T, 50T, A1	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc <u>t Breakdown:</u> vailable Rig C	k Trailer Desc apacities	ription: G	ENERIC FOLI	400 HP DING GOO TRAILER (51+	(2ND HALF, SENECK, DF 25T, 50T, AI Tons	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc <u>t Breakdown:</u> vailable Rig C Ownership	k Trailer Desc apacities Cost/Hour:	ription: G	ENERIC FOLI 26-50 Tons \$18.37	400 HP DING GOO TRAILER (51+ \$2	(2ND HALF, SENECK, DF 25T, 50T, A1 Tons 2.33 0.07	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc t Breakdown: vailable Rig C Ownership Operating	k Trailer Desc apacities) Cost/Hour: t Cost/Hour:	o-25 Tons \$16.63 \$44.38 \$27.66	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP 0 DING GOO3 TRAILER (51+ \$2 \$5 \$5	(2ND HALF, SENECK, DF 25T, 50T, A1 Tons 2.33 0.07 7.66	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc <u>t Breakdown:</u> vailable Rig C Ownership Operating Operation Helper	k Trailer Desc apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	o-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP 0 DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2	(2ND HALF, SENECK, DF 25T, 50T, Al Tons 2.33 0.07 7.66 5 39	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc t Breakdown: vailable Rig C Ownership Operating Operator Helper Total Uni	k Trailer Desc apacities 0 Cost/Hour: c Cost/Hour: c Cost/Hour: c Cost/Hour: c Cost/Hour: c Cost/Hour:	ription: G 0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP 0 DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$12	(2ND HALF, SENECK, DF 25T, 50T, Al 2.33 0.07 7.66 5.39 25.45	2006) ROP DECI <u>ND 100T)</u>	K EQU	IPMENT
Cost Av	Truc t Breakdown: vailable Rig C Ownership Operating Operato Helper Total Uni	k Trailer Desc apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP 0 DING GOO: TRAILER (51+ \$2 \$5 \$2 \$2 \$12	(2ND HALF, SENECK, DF 25T, 50T, A1 7005 2.33 0.07 7.66 5.39 25.45	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc <u>t Breakdown:</u> vailable Rig C Ownership Operating Operation Helper Total Uni N ROADAB	k Trailer Desc apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	o-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP (DING GOO) TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$12	(2ND HALF, SENECK, DF 25T, 50T, Al 2.33 0.07 7.66 5.39 25.45	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av	Truc t <u>Breakdown:</u> vailable Rig C Ownership Operating Operator Helper Total Uni N ROADAB	k Trailer Desc apacities cost/Hour: cost/Hour: cost/Hour: cost/Hour: t Cost/Hour: t Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP 0 DING GOO: TRAILER (51+ \$2 \$5 \$2 \$2 \$12 \$12	(2ND HALF, SENECK, DF 25T, 50T, A1 7005 2.33 0.07 7.66 5.39 25.45	2006) ROP DECI ND 100T)	K EQU	IPMENT
Cost Av NO	Truc t Breakdown: vailable Rig C Ownership Operating Operator Helper Total Uni N ROADAB achine	k Trailer Desc apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/br/unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/br/uni	400 HP 0 DING GOO: TRAILER (51+ \$2 \$5 \$2 \$2 \$12 Fleet Size	(2ND HALF, SENECK, DF 25T, 50T, A1 7005 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/br/	2006) ROP DECI ND 100T)	K EQU	IPMENT DOT Permit Cost/ fleet
Cost Av NOI Ma De	Truc t Breakdown: vailable Rig C Ownership Operating Operation Helper Total Uni N ROADAB achine escription	k Trailer Desc apacities 0 Cost/Hour: 2 Cost	o-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	ENERIC FOLI 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t	400 HP 0 DING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12 \$12 \$12	(2ND HALF, SENECK, DF 25T, 50T, Al 233 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/ fleet	2006) ROP DECI ND 100T) Return 7 Cost/hr/	K EQU	IPMENT DOT Permit Cost/ fleet
Cost Av NOI	Truc t Breakdown: vailable Rig C Ownership Operating Operator Helper Total Uni N ROADAB achine escription	k Trailer Desc apacities c Cost/Hour: g Cost/Hour: c Cost/Hour: c Cost/Hour: t Cost	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t	400 HP 0 DING GOOD TRAILER (51+ \$2 \$5 \$2 \$2 \$12 \$12 Fleet Size	(2ND HALF, SENECK, DI 25T, 50T, Al 2.33 0.07 7.66 5.39 25.45 Haul Trip Cost/hr/ fleet	2006) ROP DECI ND 100T) Return T Cost/hr/	Trip fleet	IPMENT DOT Permit Cost/ fleet

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T.	\$20.91	1	\$20.91	\$20.91
Crew				
Drill/Broadcast Seeder with	\$75.35	1	\$75.35	\$75.35
Tractor				
Power Mulcher (Reinco M90)	\$48.76	1	\$48.76	\$48.76
		~	****	****
		Subtotals:	\$145.02	\$145.02

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GLENWOOD SPRINGS	_
Total one-way travel distance:	15.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$0.00	
* two round trips with haul rig:		-
I otal Roadable Mob/Demob Cost **	\$96.68	
** one round trip, no haul rig:		_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

JOB TIME AND COST

Total job time: **0.67** Hours

Total job cost: \$97

M-1981-207 TASK: 201651-2

Updated changes based on meeting / General Wotes #Does not capture CIRCES cost changes, only input values Transport backfill to Area 1 j2a is have distance no greater than 750' per Lewicki changed +updated to 750' from 1000' 75 95C Transport backfill to Area 2 to Figures calculated correctly, progress is really slow, incrumental update based on progress - self report (slope length, depth mined, slope grade) # Recived commitment to self report via annual Ø report. Compliance requirement created. 23a - Placement of backfill in Area 1 Lo Swell value of 1290, Lewick' suggests 600 more accorrade Once transported no longer CCY now LCY so 090 swell)36 Placement of backfill in Area 2 & Based on AM exhibits accurate input values, will not occur for some time + self report progress in annual report Ba Transport of topsoil LCY transported ino swell 70 Placement of Topsoil 4325' Dozer push would be more accurate to swell is 4390, that's inrealistic Changed push distances 375' > 325', once transported soil is already loose LCY 090 swell 08 - Reveg Mulch Commitment received for \$150 per bale for 2 tan/ac of the 100 ac necessary Remove Area 2 until self report shows reclamation needed refer to 2015-10 inspection for Potential cost of removed tasks