STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106 COLORADO
DIVISION OF
RECLAMATION
MINING
--&SAFETY

John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Pineda Director

February 11, 2014

Mr. James MacDonald APC Southern Construction Co., LLC 14802 W 44th Avenue Golden, CO 80403

Re: Pino Pit, DRMS Permit No. M-2000-118 Financial Warranty Increase

Surety Increase SI-01

Dear Mr. MacDonald:

On February 11, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$145,300.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$29,900.00. Please see attached calculations. The increase reflects the Division's efforts to ensure the financial warranty for this operation will fulfill the requirements of the approved reclamation plan. In accordance with 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 notification (the mailing date of this letter); therefore, the required additional amount needs to be accepted prior to April 14, 2014.

Please make arrangements with Barbara Coria at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria. Her phone number is 303-899-3567, extension 8148.

If you need additional information please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203, by telephone at 303-866-3567, extension 8131, or by email at tyler.odonnell@state.co.us.

Sincerely,

Tyler V. O'Donnell

Tyler O'Donnell

Environmental Protection Specialist

CERTIFIED Mail No. 7011 3500 0002 9607 6889

Return Receipt Requested

Enclosure: Financial warranty calculation

CC: Tom Kaldenbach, DRMS

COST SUMMARY WORK

Task description:	Reclaim Pino Pit				
Site: Pino Pit			Permit Action:	2014 Inspection Perm	nit/Job#: M2000118
PROJECT	DENTIFICATIO	<u> N</u>			
Task #:	999	State:	Colorado	Abbreviation	n: None
Date:	2/4/2014	County:	Huerfano	Filenam	e: M118-999
User:	TOD				
Ag	ency or organization r	name: DF	RMS		

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade slopes to 3H:1V	DOZER	2	55.34	\$23,353.47
002	Replace overburden	SCRAPER1	1	36.56	\$31,891.09
003	Replace 4 inches of topsoil on 35 acres	SCRAPER1	1	13.65	\$11,905.84
005	Revegetation of Pino Pit	REVEGE	1	105.00	\$39,611.43
006	Rip 15 acres	RIPPER	2	10.86	\$4,583.00
007	Mobilization/Demobilization	MOBILIZE	1	3.33	\$4,529.41
		SUBTO	TALS:	224.74	\$115,874.24

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02% Total = \$2,340.66 Performance bond: 1.05% Total = \$1,216.68 \$7,350.12 Job superintendent: 112.37 hrs Total = Profit: 10.00% Total = \$11,587.42

TOTAL O & P = $\frac{$22,494.88}{$138,369.12}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00 Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 0.00% Total = 0.00 0.00%

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$29,413.34

TOTAL BOND AMOUNT (direct + indirect) = \$145,287.58

BULLDOZER WORK

Pino Pit		Per	mit Action:	2014 Inspection	Permit/Job#:	M2000118
PROJECT IDEN	NTIFICATIO	<u>DN</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: <u>2/4/2</u>	014	County:	Huerfano		Filename:	M118-001
User: TOD						
Agency or	organization r	name: DF	RMS			
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D8T - 81	U				
Horsepower:	310			-		
Blade Type:	Universal			=		
Attachment:	3-shank ripp	er		=		
Shift Basis:	1 per day			-		
Data Source:	(CRG)			-		
Cost Breakdown:						
				<u>Utilization %</u>		
Ownership Cost/H	Iour:	\$63.00		NA		
Operating Cost/F	Iour:	\$104.06		100		
Ripper op. Cost/F	Iour:	\$6.53		100		
Operator Cost/F	Iour:	\$37.41		NA		
Total unit Cost/Hou	ır: \$211.0	_				
MATERIAL QU Initial Volume: Swell factor:	38,578 1.125					
Loose volume:	43,400 LCY					
Source of estimated Source of estimated		Revised I Cat Hand				
HOURLY PROI	<u>DUCTION</u>					
Average push dista	nce:	150 feet				
Unadjusted hourly		685.7 LCY	1			
Changasica nounty		003.7 EC 17	nr			
Materials consisten	·		nr cted fill or em	bankment 0.9		
Materials consisten	cy description:			bankment 0.9		
	cy description:	Compa		bankment 0.9		
Materials consisten Average push gradi	ent: -10 % e: 6,300 f	Compa		bankment 0.9		
Materials consisten Average push gradi Average site altitud	ent:10 % e:	Compa Geet bs/LCY				
Materials consisten Average push gradi Average site altitud Material weight: Weight description Job Condition Corr	cy description: ent:10 %	Compa Ceet bs/LCY sposed rock	cted fill or em	75% Earth Source		
Materials consisten Average push gradi Average site altitud Material weight: Weight description Job Condition Corr Ope	cy description: ent:10 % e:6,300 f 2,650 f	Compa Seet bs/LCY sposed rock 0.	cted fill or em	75% Earth Source (AVG.)		
Materials consisten Average push gradi Average site altitud Material weight: Weight description Job Condition Corr Ope Material c	cy description: ent:10 %	Compa Teet bs/LCY sposed rock 0. 0.	cted fill or em	75% Earth Source		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.800	(SSD-AC)
1.225	(CAT HB)
1.000	(CAT HB)
0.868	(CAT HB)
1.000	(PAT)
	0.830 0.800 1.225 1.000 0.868

Net correction: 0.5719

Adjusted unit production: 392.15 LCY/hr
Adjusted fleet production: 784.3 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.538/LCY

Total job time: 55.34 Hours
Total job cost: \$23,353.47

Page 2 of 2

SCRAPER TEAM WORK

Task description:	Replace 4	inches of	topsoil o	n 35 acres				
Site: Pino Pit		Permi	t Action:	2014 Inspection	n Per	mit/Job#:	M20001	18
PROJECT IDEN	TIFICATION							
Task #: 003 Date: 2/4/20 User: TOD			Colorado Huerfano			viation: _ lename: _	None M118-00	13
Agency or	organization name	: DRM	IS					
HOURLY EQUI	PMENT			COSTS	hift basis: 1 per c	lay		
			Equipme	nt Description				
		Scraper:	Cat 637					_
Suppo	ort Equipment -Loa	-Dozer:	Cat D87	I' - 8U				
Би рро		p Area:	NA					
Road Ma	aintenance – Motor		NA					
	-Water	r Truck:	NA					
Cost Breakdown:	Scraper Wo	ork Team Do	zer	Support Equip Load Area	pment Dump Area	Main Motor (tenance E Grader	quipment Water Truck
%Utilization-machine:	100	50	0	NA	NA	N/	A	NA
Ownership cost/hour:	\$97.63	\$63	.00	NA	NA	N/	A	NA
Operating cost/hour:	\$232.31	\$52	.03	NA	NA	N/	A	NA
Ripper op. cost/hour:	NA	\$0.	00	NA	NA	N/	A	NA
Operator cost/hour:	\$30.02	\$37	.41	NA	NA	N/	A	NA
Unit Subtotals:	\$359.96	\$152	2.45	NA	NA	N/	A	NA
Number of Units:	2	1		0	0	0)	0
Group Subtotals:	Work:	\$872	2.37	Support:	\$0.00		Maint:	\$0.00
Total work team cos								
MATERIAL QUA	<u>ANTITIES</u>							
Initial volume: Loose volume:	18,000 18,000		CCY LCY	Swell fact	tor: <u>1.000</u>			
	arce of estimated vo of estimated swell	_	Revised I Cat Hand					
HOURLY PROD	<u>UCTION</u>							
				Scraper Bo	owl (volume) Bas	sis:		
Material weight:	1,600 lbs/LCY			Struck	Volume: 24.00		LC	Y
Material description:	Top Soil			Heaped			LC	
Rated Payload:	81,600 pounds			Average			LC'	
Payload Capacity:	51.00 LCY			Adjusted C	Capacity: 29.00		LC	Ý

Site Altitude: 6300 feet

Cycle Time:

Job Condition Correction:

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	5.00	5.00	1867	0.41

Haul Time: **0.41** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	5.00	5.00	2795	0.38

0.38 minutes Return Time: 2.19 Total Scraper team cycle time: minutes Adjusted for job conditions: 659.45 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 1,318.90 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,318.90 LCY/Hour

Unadjusted unit production/hour: 794.52 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 13.65
 Hours

 Unit cost:
 \$0.661
 /LCY
 Total job cost:
 \$11,905.84

REVEGETATION WORK

•	Γask description:	Revegetation of Pino Pit				
Site:	Pino Pit	Permit Action:	2014 Inspection	Permit/Job#:	M2000118	
1	PROTECT IDENTIFIC	ATION				

Task #: 005 State: Colorado Abbreviation: None Date: 2/4/2014 County: Huerfano Filename: M118-005

User: TOD

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	40.00	pound	\$0.33	\$13.08
			Total Fertilizer Materials	
			Cost/Acre	\$13.08

Application

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$22.22
Total Fertilizer Application Cost/A	cre \$22.22

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$98.01
	Total Tilling Cost/Acre	.
	Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Native	5.50	16.41	\$53.96
Little Bluestem - Native	3.00	17.91	\$42.84
Sideoats Grama - Butte	4.50	14.77	\$50.13
Yellow Sweet Clover - Madrid	3.50	20.89	\$8.93
Western Wheatgrass - Native	8.00	20.20	\$24.32
Totals Seed Mix	24.50	90.19	\$180.17

Application

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

1	Fotal Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS

Materials

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

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

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: 35 Cost /Acre: \$997.57
Estimated Failure Rate: 50% Cost /Acre*: \$268.37

*Selected Replanting Work Items: SEEDING

Initial Job Cost:
Reseeding Job Cost:
Total Job Cost:
Job Hours:

\$34,914.95

\$4,696.48

\$39,611.43

105.00

BULLDOZER RIPPING WORK

	Task description	: Rip	15 acres			
Site	: Pino Pit		Permit Action:	2014 Inspection	n Permit/Job#	e: <u>M2000118</u>
	PROJECT ID	ENTIFICAT	<u>ION</u>			
	Task #: 00	6	State: Colorado		Abbreviation:	None
	Date: 2/4	4/2014	County: Huerfano		Filename:	M118-006
	User: TO	DD				
	Agency	y or organization	n name: DRMS			
	HOURLY EQ	UIPMENT C	OST			
	Basic	Machine: Ca	nt D8T - 8U		Horsepower:	310
	Ripper At	tachment: 3-3	Shank Ripper		Shift Basis: 1	per day
					Data Source: ((CRG)
	Cost Breakdown	ı <u>:</u>		T.		
		Ownership C	Cost/Hour: \$63	00	Utilization %	
		Operating C			NA 100	
	Rip	per Operating C			100	
	1	Operator C			NA	
		Total Unit C	Cost/Hour: \$21	1.01		
		Total Fleet C	Cost/Hour: \$422	2.03		
	MATERIAL (QUANTITIES	Sele Sele	ected estimating	method: Area	
	Alternate Metho		_			
Seismic:	NA	<u> </u>	Bank Volume:	NA	BCY	NA
Area:	15.00	acres	Rip Depth (ft):	1.50	Volume: 36,300	BCY or CC
		Source of esti	mated quantity: Revise	d Exhibit L		
	HOUDI V DD			<u> </u>		
	HOURLY PR	ODUCTION				
	Seismic:		Seismic Velocity:	NA	feet/second	
			Seisinic velocity.	1471		
	Area:	Avana	go Pinning Donth	2.56	mnh	
			ge Ripping Depth: ge Ripping Width:	7.08	mph degrees	
			e Ripping Width:	700.00	feet	
			rage Dozer Speed:	88.00	feet	
			e Maneuver Time:	0.25	feet	
		Produc	ction per unit area:	0.832	acres/hour	
	Job Condition C	orrection Factor	<u>'S</u>			
	Uı	nadjusted Hourl	y Unit Production:	0.832	Acres/hr	
			Site Altitude:	6,300	feet	
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.83	multiplier	
		Adjusted	Hourly Unit Production:	0.69	Acres/hr	
		•	Hourly Fleet Production:	1.38	Acres/hr	
	JOB TIME A	ND COST				
	Fleet size:	2	_ Grader(s)	Total job time	e: 10.86	Hours
	Unit cost:	\$305.552	Per acre	Total job cos	t: \$4,583.00	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	bilization/Demob	oilization			
Site: Pino Pit	Permit	Action: 2014 Insp	pection	Permit/Job#:	M2000118
PROJECT IDENTIFICAT	<u>'ION</u>				
Task #: 007	State: C	olorado		Abbreviation:	None
Date: 2/4/2014 User: TOD	County: H	Iuerfano		Filename:	M118-007
Agency or organization		S			
EQUIPMENT TRANSPOL	KI KIG COSI		C1	ift basis: 1	per dev
			Cost Data		per day CRG Data
Truck Tractor Des	cription: GEN	ERIC ON-HIGHW	AY TRUCK TRA	ACTOR, 6X4, D	DIESEL POWERED,
			400 HP (2ND H	ALF, 2006)	
Truck Trailer Des	cription: GEN	ERIC FOLDING G			JIPMENT TRAILER
			(25T, 50T, AN	ID 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	<u></u>	
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39	<u></u>	
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45		

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8U	53.70	\$63.00	\$125.45	2	\$376.91	\$250.90	\$500.00
Cat 637G	57.28	\$97.63	\$125.45	2	\$446.17	\$250.90	\$500.00

Subtotals: \$823.08 \$501.80 \$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: WALSENBURG

Total one-way travel distance: 15.00 miles

Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$4,529.41

\$0.00

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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 cost: 3.33 Hours

Total job cost: \$4,529.41