July 2, 2018

Nick Kurtenbach CPX Piceance Holdings, LLC 34 S. Wynden Dr. Houston, TX 77056



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Tepee Park Ranch Shale Borrow Pit, Permit No. M-2008-027, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Kurtenbach:

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 \$\frac{\$27,440.43}{27,440.00}\$ rounded down to \$\frac{\$27,440.00}{27,440.00}\$. This is an increase of \$\frac{\$3,940.00}{34-920.00}\$ over the \$\frac{\$23,500.00}{23,500.00}\$ currently held by the Division. This estimate is based on conditions observed during the June 20, 2018 inspection. **Therefore, pursuant to Section 34-32-117(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, August 31, 2018**. 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 Yeldell

Environmental Protection Specialist

Ec: Wally Erickson, Senior EPS, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

Task description: Post inspection update **Tepee Park Ranch Shale** Permit Action: Site: Borrow Pit 06-2018 Permit/Job#: M2008027 **PROJECT IDENTIFICATION** Task #: ACY Colorado State: Abbreviation: None 6/20/2018 Date: Garfield M027-ACY County: Filename: User: **ACY** Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Final Upper Slope Grade 1.2H:1V	EXCAVATE	1	21.04	\$2,132.00
02a	Construct 25' wide bench between upper and lower	EXCAVATE	1	9.45	\$958.00
	slopes				
03a	Establish final lower slope grade 1.8H:1V	EXCAVATE	1	31.14	\$3,156.00
04a	Distribute topsoil to 0.35 acres	LOADER	1	1.64	\$131.00
05a	Reveg of 0.54 acres	REVEGE	1	30.00	\$11,748.00
06a	Initial Mobilization	MOBILIZE	1	3.37	\$2,707.00
07a	Secondary Mobilization	MOBILIZE	1	3.37	\$977.00
	-	<u>SUBTO</u>	TALS:	100.01	\$21,809

INDIRECT COSTS

OVERHEAD AND PROFIT:

\$440.54 Liability insurance: 2.02 Total = Performance bond: 1.05 Total = \$228.99 Job superintendent: 0.00 Total = \$0.00 \$2,180.90 Profit: 10.00 Total =

TOTAL O & P = \$2,850.43 CONTRACT AMOUNT (direct + O & P) = \$24,659.43

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 4.25 Total = \$1,048.03

Reclamation management and/or administration: 5.00 \$1,232.97

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$5,631.43

TOTAL BOND AMOUNT (direct + indirect) = \$27,440.43

TOTAL BOND AMOUNT (Rounded) = \$27,440.00

HYDRAULIC EXCAVATOR WORK

Topos Dorle D				2H:1V		
Borrow Pit	Ranch Shale	Peri	mit Action:	06-2018	Per	rmit/Job#: <u>M2008027</u>
PROJECT ID	ENTIFICATION	<u>ON</u>				
Task #: 01	Δ	State:	Colorado		Ahhre	eviation: None
	20/2018	County:	Garfield			ilename: M027-01a
User: AC						
Agency	or organization	name: DR	RMS			
	UIPMENT CO					
Basic Ma		DL 9'-6" S	Stick		Horsepower:	148
Attachm			HICK		Weight (MT):	21.55
1 Ittuciii	<u> 11015 (</u>	Cuo			Shift Basis:	1 per day
					Data Source:	(CRG)
Cost Breakdown	:					
	_			Utilization %		
	ip Cost/Hour: _	\$31.0		NA		
	ng Cost/Hour: _	\$32.5		100		
_	or Cost/Hour:	\$37.7		NA		
Total U	nit Cost/Hour:	\$101.	31			
Total Fl	eet Cost/Hour:	\$101	.31			
MATERIAI <i>(</i>	- QUANTITIES					
Initial volu			CCY	Swell fac	etor: 1.335	
Loose volu			- LCY	5 well luc	1.555	
	ODLICTION		- Cut Huii	dbook		
HOURLY PR Excavator Cycle	ODUCTION Time (load buck	et, swing loa			npty):	
			ided, dump			GE
	Time (load buck		ided, dump Basic Job (bucket, swing em	otion: AVERA	
Excavator Cycle	Time (load buck		ided, dump Basic Job (bucket, swing em	otion: AVERA	
	Time (load buck		ided, dump Basic Job (bucket, swing em Condition Descriphin Basic Descrip	otion: AVERA otion: AVERA average aver	GE minutes
Excavator Cycle Load Bucket Ca	Time (load buck Secon	ndary Job Co	ded, dump Basic Job (ondition wit	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	otion: AVERA	GE minutes
Excavator Cycle Load Bucket Cap Rated	Time (load buck Secondacity Capacity:	ndary Job Co	Basic Job ondition wit	bucket, swing em Condition Descriphin Basic Descrip Cycle Time V	otion: AVERA otion: AVERA value: 0.284 Bucket Size C	GE minutes
Excavator Cycle Load Bucket Cap Rated Bucket F	Time (load buck Secondarity Capacity: ill Factor:	1.54 0.675	Basic Job (ondition wit) LCY (he Rock - V	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V	otion: AVERA otion: AVERA value: 0.284 Bucket Size C	GE minutes
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Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted	Time (load buck Secondarity Capacity: ill Factor:	1.54 0.675	Basic Job (ondition with LCY (he Rock - V	bucket, swing em Condition Descriphin Basic Descrip Cycle Time V caped) Vell blasted (60%	otion: AVERA otion: AVERA value: 0.284 Bucket Size C	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co	Secondarity Capacity: ill Factor: Capacity: correction Factors	1.54 0.675 1.04	Basic Job (ondition with LCY (he Rock - V LCY	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60%	otion: AVERA otion: AVERA aVERA olion: 0.284 Bucket Size Cl olion: AVERA olion: Olion olion: Olion olion: AVERA olion: Olion olion: AVERA olion: Olion olion olion: Olion olion olion: Olion olion: Olion olion: Oli	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co	Secondarity Capacity: ill Factor: Capacity: correction Factors e Adj:	1.54 0.675 1.04	Basic Job Condition with LCY (he Rock - V	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) Vell blasted (60% Sites B)	otion: AVERA otion: AVERA aVERA olion: 0.284 Bucket Size Cl olion: AVERA olion: Olion olion: Olion olion: AVERA olion: Olion olion: AVERA olion: Olion olion olion: Olion olion olion: Olion olion: Olion olion: Oli	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic	Secondarian Second	1.54 0.675 1.04	Basic Job Condition wit LCY (he Rock - V LCY Source (CAT H (1 shift/d	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60% Site B) ay)	otion: AVERA otion: AVERA aVERA olion: 0.284 Bucket Size Cl olion: AVERA olion: Olion olion: Olion olion: AVERA olion: Olion olion: AVERA olion: Olion olion olion: Olion olion olion: Olion olion: Olion olion: Oli	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co	Secondarian Second	1.54 0.675 1.04	Basic Job Condition with LCY (he Rock - Value LCY (CAT Hotel (1 shift/d multiplie)	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) Vell blasted (60% Site B) ay)	otion: AVERAL otion: AVERAL aVERAL olive: 0.284 Bucket Size Cl olive: 75%) 0.675 The Altitude: 9400 fr	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic	Secondaria	1.54 0.675 1.04 87 83 72 Hourly Unit	Basic Job Condition with LCY (he Rock - Value LCY (CAT Hotel Multiplie Production:	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V eaped) Vell blasted (60% Site B) ay) r	otion: AVERA otion: AVERA AVERA alue: 0.284 Bucket Size Cl o - 75%) 0.675 Bucket Size Cl o - 75%) 0.675 Bucket Size Cl o - 75%	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic	Secondaria	1.54 0.675 1.04 87 83 72 Hourly Unit Hourly Unit	Basic Job Condition with LCY (he Rock - Value CAT House (CAT House) (1 shift/d multiplie Production: Production:	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60% Site B) ay) r 219.61 158.58	AVERAGE	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic Net Corre	Secondaria	1.54 0.675 1.04 87 83 72 Hourly Unit	Basic Job Condition with LCY (he Rock - Value CAT House (CAT House) (1 shift/d multiplie Production: Production:	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60% Site B) ay) r 219.61 158.58	otion: AVERA otion: AVERA AVERA alue: 0.284 Bucket Size Cl o - 75%) 0.675 Bucket Size Cl o - 75%) 0.675 Bucket Size Cl o - 75%	GE minutes ass: Medium
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic Net Corre	Secondarity Capacity: Correction Factors e Adj: Correction: Cunadjusted Adjusted A	1.54 0.675 1.04 87 83 72 Hourly Unit Hourly Unit Hourly Fleet	Basic Job Condition with LCY (he Rock - Value (CAT House) (1 shift/d multiplie) Production: Production:	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60% Site B) ay) r 219.61 158.58 158.58	AVERAL	minutes ass: Medium Seet
Excavator Cycle Load Bucket Cap Rated Bucket F Adjusted Job Condition Co Altitud Job Effic Net Corre	Secondaria	1.54 0.675 1.04 87 83 72 Hourly Unit Hourly Unit	Basic Job Condition with LCY (he Rock - Value (CAT House) (1 shift/d multiplie) Production: Production:	bucket, swing em Condition Descrip hin Basic Descrip Cycle Time V caped) Vell blasted (60% Site B) ay) r 219.61 158.58	AVERAGE	minutes Ass: Medium Seet

HYDRAULIC EXCAVATOR WORK

Task description:	Construct 25'	wide bench b	etween upper an	d lower slopes	
Tepee Park Ranch Borrow Pit	Shale I	Permit Action:	06-2018	Perm	nit/Job#: <u>M2008027</u>
PROJECT IDENTI	<u>FICATION</u>				
Task #: 02A Date: 6/20/201 User: ACY	·	y: Garfield		Abbrev File	riation: None M027-02a
Agency or org	_	DRMS			
Basic Machine: Attachment 1:		5" Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	148 21.55 1 per day (CRG)
Cost Breakdown:					
Ownership Cos Operating Cos Operator Cos Total Unit Cos	st/Hour: \$3 st/Hour: \$3	31.02 32.50 37.79 01.31	Utilization % NA 100 NA	 	
Total Fleet Co	st/Hour: \$1	101.31			
MATERIAL QUAN Initial volume: Loose volume:	1,500 1,500	CCY LCY	Swell fac	tor: 1.000	
Source of HOURLY PRODUCE Excavator Cycle Time				pty):	
	Cacandamy Jah		Condition Descrip		
	Secondary Job	Condition wit	hin Basic Descrip Cycle Time V		minutes
Load Bucket Capacity				Bucket Size Clas	ss: Medium
Rated Capac Bucket Fill Fac Adjusted Capac	tor: 0.675	LCY (he Rock - V	eaped) Well blasted (60%		
Job Condition Correcti	on Factors		Site	e Altitude: <u>9400</u> fee	et
Altitude Adj: Job Efficiency: Net Correction:	0.87 0.83 0.72 Inadjusted Hourly U Adjusted Hourly U Adjusted Hourly Floration	nit Production	(B) (lay) (r) (c) 219.61 (c) 158.58	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND C	•	cet i roduction	. 130,30	LC 1/110til	
Fleet size:	1 Excar	vator 7	Total job time:	9.46	Hours

HYDRAULIC EXCAVATOR WORK

Task description:	Establish final lov	wer slope g	rade 1.8H:1V		
Tepee Park Ranch S e: Borrow Pit	Shale Pern	mit Action:	06-2018	Perm	nit/Job#: M2008027
PROJECT IDENTI	FICATION				
Task #: 03A Date: 6/20/2018 User: ACY	State: County:	Colorado Garfield		Abbrev File	None M027-03a
Agency or org	anization name: DR	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Attachment 1:	Cat 320D L 9'-6" So ROPS Cab	tick		Horsepower: Weight (MT): Shift Basis: Data Source:	148 21.55 1 per day (CRG)
Cost Breakdown:					
Ownership Cost			Utilization % NA	<u></u>	
Operating Cost Operator Cost			100 NA		
Total Unit Cost		-	1 1/1 1	<u> </u>	
Total Fleet Cos					
	TITIES 3,700 4,940	CCY LCY	Swell fac	tor: <u>1.335</u>	
	of estimated volume: estimated swell factor:	Reclama Cat Han	tion Plan		
		Cat Hair	dook		
HOURLY PRODUC					
Excavator Cycle Time (•	*	•	<u>* • · · · · · · · · · · · · · · · · · · </u>	
			Condition Descrip		
	Secondary Job Con	namon witi	Cycle Time V		minutes
Load Bucket Capacity			Cycle Time v	0.201	
				Bucket Size Class	ss: Medium
Rated Capaci Bucket Fill Fact Adjusted Capaci	or: 0.675	LCY (he Rock - V	caped) Vell blasted (60%	- 75%) 0.675	
Job Condition Correction	on Factors		Site	e Altitude: 9400 fee	et
A1.1. 1 A 11	0.07	Source			
Altitude Adj: Job Efficiency:	0.87	(CAT H (1 shift/d			
Net Correction:	0.72	multiplie			
III	nadjusted Hourly Unit l	Production:	219.61	LCY/Hour	
	Adjusted Hourly Unit I			LCY/Hour	
	Adjusted Hourly Fleet I			LCY/Hour	
JOB TIME AND CO	<u>DST</u>				
Fleet size:	1 Excavato	or T	otal job time:	31.15	Hours
Unit cost: \$0	0.639 /LCY		Total job cost:	\$3,156	

WHEEL LOADER – LOAD AND CARRY WORK

	ee Park Rancl	GI I							
-	row Pit	1 Shale	Perm	it Action:	06-2018		Per	rmit/Job#:	M2008027
PRO.	JECT IDENT	TIFICATION							
Tas	sk #: 04A		State:	Colorado			Abbre	eviation:	None
	Date: 6/20/20	018	County:	Garfield			F	ilename:	M027-04a
U	Jser: ACY								
	Agency or o	organization nan	ne: DRI	MS					
HOU	RLY EQUIP	MENT COST	Γ						
	Basic Machine		_			Horse	epower:	1	28
	Attachment 1						t Basis:		er day
	7 tttacimient 1	. Korb cue	<u> </u>				Source:		(RG)
G . D							_		
Cost B	<u> Breakdown:</u>			1	Utilizatio	n %			
	Ownership Co	ost/Hour	\$18.14	1	NA)II /0			
	Operating Co		\$20.22		100				
	Operator Co		\$41.20		NA				
	Total Unit Co	ost/Hour:	\$79.56	5					
	Total Fleet C	Cost/Hour:	\$79.5	6					
<u>MAT</u>	ERIAL QUA	<u>NTITIES</u>							
	nitial volume:	282 343		CCY LCY	Swe	ell factor:	1.215		
	Sour	rce of estimated	volume:	Reclama	tion plan				
	Source o	of estimated swe	ell factor:	Cat Han	dbook				
ноп	RLY PRODU	ICTION							
	r Cycle Time:		ed Basic (vele Time	(load dum	p, maneuver	١٠	0.475	minutes
			ed Dasie C	yele Tille	(10aa, aaiii	p, maneaver,		1	
	Cycle Time F		:-1 1/022 4-	2/422 4:	-4 0.02		Factor	\ /	Source
			ial 1/8" to		applicable () 00	-0.0		(Cat HB) (Cat HB)
	Truck Owne				applicable (0.0		(Cat HB)
			ant operati		аррисаоте (7.00	-0.0		(Cat HB)
	Dump T				applicable (0.00	0.0		(Cat HB)
	•		•		cle Time A		-0.0		minutes
					ted Basic C		0.4	15	minutes
Rollin	g Resistance –	Road Condition	<u>is</u>						
	Н	aul: Rutted d	lirt, little m	naintenanc	e, no water.	2" tire penet	ration 5.0		
	Reti					2" tire penet			
Haul a	nd Return Time	e							
		_	C 1. 1	Dag	Dollin -	Total Dec	Т	al Tirra	
		Length (feet)	Grade 1 (%)		Rolling Res. (%)	Total Res (%)		el Time nutes)	Source
	Haul Route:	130	0.00		5.00	5.00		0917	(Cat HB)
1	Return Route:	130	0.00		5.00	5.00		0917	(Cat HB)

Total Travel Time: 0.1834 minutes Total Cycle Time: 0.5984 minutes **Load Bucket Capacity** Rated Capacity: LCY (heaped) 2.70 Bucket Fill Factor: Loose material - 1/8" to 3/8" (90 - 95%) 0.925 0.925 Adjusted Capacity: 2.50 LCY Job Condition Correction Factors Site Altitude: 9400 feet Source Altitude Adj: (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 250.42 LCY/Hour Adjusted Hourly Unit Production: 207.85 LCY/Hour Adjusted Hourly Fleet Production: 207.85 LCY/Hour JOB TIME AND COST Fleet size: 1 Loader(s) Total job time: 1.65 Hours

Total job cost:

\$131

Unit cost: \$0.383

/LCY

REVEGETATION WORK

Task description:	Reveg of 0.54 acres

Tepee Park Ranch Shale Permit Action:

Site: **Borrow Pit** 06-2018 Permit/Job#: M2008027

PROJECT IDENTIFICATION

Task #:05AState:ColoradoAbbreviation:NoneDate:6/20/2018County:GarfieldFilename:M027-05a

User: ACY

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.27	\$54.00
			Total Fertilizer Materials Cost/Acre	\$54.00

Application

Description		Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)		\$638.15
	Total Fertilizer Application Cost/Acre	\$638.15

TILLING

Description	Cost /Acre
Hand raking (MEANS 32 91 13.23 0250)	\$1,328.58
Total Tilling Cost/Acre	\$1,328.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$3.00
Indian Ricegrass - Paloma	2.00	6.47	\$19.50
Russian Wildrye - Bozoisky	2.00	8.03	\$12.66
Bottlebrush Squirreltail	1.80	7.93	\$42.30
Intermediate Wheatgrass - Rush	6.00	12.81	\$22.50
Slender Wheatgrass - Pryor	5.60	20.44	\$16.91
Siberian Wheatgrass	3.40	8.59	\$13.50
Totals Seed Mix	21.20	72.54	\$130.37

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units /	Unit	Cost / Unit	Cost /Acre
	Acre			
Polyprop. mesh, staples Material (MEANS 31 25	1.00	ACRE	\$7,986.00	\$7,986.00
14.16 0200)				
Silt fence, Materials (MEANS 31 25 14.16	330.00	LINEAR	\$0.25	\$82.50
1000)		FOOT		
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Tackifier, <10 acres {Materials Only}	1.00	ACRE	\$463.91	\$463.91
Total Mulch Materials Cost/Acre				\$9,054.41

Application

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,097.60
Hydromulching (MEANS 32 92 19.13 1100)	\$968.00
Silt fence, Labor + Maint for 6 months (MEANS 32 25 14.16 1100)	\$1.35
Total Mulch Application Cost	t/Acre \$4,066.95

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

No. of Acres: 0.54 Cost / Acres: \$15,539.68

Estimated Failure Rate: 40% Cost /Acre*: \$15,539.68

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

LCHING

Initial Job Cost: \$8,391.43

Reseeding Job Cost: \$3,356.57

Total Job Cost: \$11,748

Job Hours: 30.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Initial Mobilization			
Tepee Park Ranch Shale Borrow Pit	Permit Action: 06-20	D18 Permit/Jo	bb#: <u>M2008027</u>	
PROJECT IDENTIFICA	TION			
Task #: 06A Date: 6/20/2018 User: ACY Agency or organizat		Abbreviation: Filename:	None M027-06a	
		Shift basis: Cost Data Source:	1 per day CRG Data	
Truck Tractor De	escription: GENERIC ON-HIGH	WAY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	, DIESEL POWERED,	
Truck Trailer D	1	GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)		
Cost Breakdown:				

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

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)		t		fleet		
Cat 320D L 9'-6"	23.70	\$31.02	\$88.67	1	\$119.69	\$88.67	\$250.00
Stick							
CAT 924H	12.69	\$18.14	\$88.67	1	\$106.81	\$88.67	\$250.00
Hydroseeder with	28.00	\$17.92	\$117.55	1	\$135.47	\$117.55	\$250.00
Tractor							

Subtotals: \$361.97 \$294.89 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$47.41	1	\$47.41	\$47.41

Subtotals:	\$47.41	\$47.41

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE,CO
miles
35.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.34	0.34
Return Time (Hours):	0.34	0.34
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.69	0.69

JOB TIME AND COST

Total job cost: 3.37 Hours

Total job cost: \$2,707

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task	description: Se	econdary Mobiliz	ation		
	epee Park Ranch Shale orrow Pit	Perm	it Action: 06-201	8 P	Permit/Job#: <u>M2008027</u>
<u>PRO</u>	JECT IDENTIFICAT	<u> ION</u>			
	Cask #: 07A Date: 6/20/2018 User: Agency or organization	County: (Colorado Garfield		viation: None ename: M027-07a
EQU	IPMENT TRANSPO	RT RIG COST			
				Shift bas Cost Data Source	
	Truck Tractor Des	scription: GEN	ERIC ON-HIGHW	AY TRUCK TRACTO 400 HP (2ND HALF, 2	R, 6X4, DIESEL POWERED, 2006)
	Truck Trailer Des	scription:		· · ·	OP DECK EQUIPMENT
Cost I	Breakdown:				
Ava	ilable 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	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$27.66

\$0.00

\$88.67

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Hydroseeder with Tractor	28.00	\$17.92	\$117.55	1	\$135.47	\$117.55	\$250.00

\$27.66

\$25.39

\$117.55

\$27.66

\$25.39

\$125.45

Subtotals: \$135.47 \$117.55 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$47.41	1	\$47.41	\$47.41

Subtotals: \$47.41 \$47.41

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE,CO
miles
35.00
mph

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

\$944.44

\$32.51

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.34	0.34
Return Time (Hours):	0.34	0.34
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.69	0.69

JOB TIME AND COST

Total job time:	3.37	_ Hours
Total iob cost	\$977	