September 19, 2018

Russell Larsen Kilgore Companies LLC dba Elam Construction 556 Struthers Ave Grand Junction, CO 81501

1313 Sherman Street, Room 215 Denver, CO 80203

COLORADO

Division of Reclamation, Mining and Safety

Department of Natural Resources

## RE: Surface Rock Pit, Permit No. M-1984-011, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Larsen:

On July 12, 2018 the Colorado Division of Reclamation, Mining and Safety (Division) approved the Transfer of Permit and Succession of Operators Application (SO-4). 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 Division has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$39,820.00</u>. This is an increase of <u>\$22,796.00</u> over the <u>\$17,024.00</u> currently held by the Division. This estimate is based on conditions observed during the September 4, 2018 inspection. *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 Monday, November 19, 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,

wy Geldell

*Amy Yeldell* Environmental Protection Specialist

Ec: Wally Erickson, Senior EPS, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate



# COST SUMMARY WORK

: Surface I	Rock Pit	Permit Action:	SO-4	Permit/Job	#: <u>M1984001</u>
PROJECT	IDENTIFICA	ATION			
Task #:	ACY	State: Colorado		Abbreviation:	None
Date:	8/2/2018	County: Mesa		Filename:	M001-ACY
User:	ACY				

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Rip and regrade Site A imprint area	DOZER	1	76.15	\$17,051.00
02a	Distribute 6" of topsoil over 4 acres of Site A	DOZER	1	5.32	\$1,103.00
03a	Reveg of 4 acres in Site A-highwall floor	REVEGE	1	16.00	\$7,074.00
03b	Failure Reveg of 2.5 acres Site A-eastern reclaim area	REVEGE	1	6.00	\$2,948.00
04a	Initial Mobilization	MOBILIZE	1	3.95	\$3,121.00
04b	Secondary Mobilization	MOBILIZE	1	3.95	\$1,819.00
		SUBT	OTALS:	111.37	\$33,116

## **INDIRECT COSTS**

### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$668.94
Performance bond:	1.05	Total =	\$347.72
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$3,311.60
		TOTAL O & P =	\$4,328.26
		CONTRACT AMOUNT (direct + O & P) = $($	\$37,444.26

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.00 0.00 5.00	Total = Total =	500.00 \$0.00 \$1,872.21
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	NDIRECT COST =	\$6,700.47
TOTAL BO TOTAL BOND A	,	lirect + indirect) = <b>Rounded) =</b>	,

# BULLDOZER WORK

Task description:	Kip and re	grade Site A impr	int al ca		
Surface Rock Pit		Permit Action:	SO-4	Permit/Job#:	M1984001
PROJECT IDENTI	<b>FICATION</b>				
Task #: 01A	S	state: Colorado		Abbreviation:	None
Date: 8/2/2018		unty: Mesa		Filename:	M001-01a
User: ACY		J		-	
Agency or org	ganization name:	DRMS			
HOURLY EQUIPM	-				
	Cat D8T - 8SU				
	10				
	emi-Universal				
Attachment: 3	-shank ripper				
	per day				
Data Source: (0	CRG)				
Cost Breakdown:					
Cost Dicardo will.			Utilization %		
Ownership Cost/Hour	:	\$93.62	NA		
Operating Cost/Hour		\$73.35	100		
Ripper own. Cost/Hour		\$8.93	NA		
Ripper op. Cost/Hour		\$7.78	100		
Operator Cost/Hour		\$40.23	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$223.91 <b>\$223.91</b>				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>12</u>	\$223.91 NTITIES ,907				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>12</u> Swell factor: <u>1.3</u>	\$223.91				
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17	\$223.91 <b>NTITIES</b> ,907 330 <b>166</b> LCY	cres at 2'			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>12</u> Swell factor: <u>1.3</u>	\$223.91 <b>XTITIES</b> ,907 330 <b>7,166</b> LCY lume:4 a	cres at 2'			
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol  Source of estimated swell	\$223.91 <b>XTITIES</b> ,907 330 <b>,166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u>				
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swe    HOURLY PRODUC	\$223.91 <b>XTITIES</b> ,907 330 <b>,166</b> LCY lume: <u>4 a</u> ell factor: Cat <b>CTION</b>	Handbook			
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol  Source of estimated swell    HOURLY PRODUC  Average push distance:	\$223.91 <b>NTITIES</b> ,907 330 <b>,166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u> <u>CTION</u> 150 fo	Handbook			
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swe    HOURLY PRODUC	\$223.91 <b>NTITIES</b> ,907 330 <b>,166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u> <u>CTION</u> 150 fo	Handbook			
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol  Source of estimated swell    HOURLY PRODUC  Average push distance:	\$223.91 <b>XTITIES</b> ,907 330 <b>7,166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u> <u>CTION</u> luction: <u>150 fo</u> 634.3	Handbook	  mbankment 0.9		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swell    HOURLY PRODUC    Average push distance:    Unadjusted hourly prod    Materials consistency d    Average push gradient:	\$223.91 <b>XTITIES</b> ,907 330 <b>(166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u> CTION luction: <u>150 f</u> luction: <u>634.3</u> lescription: <u>C</u>	eet LCY/hr	  mbankment 0.9		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swell    HOURLY PRODUC    Average push distance:    Unadjusted hourly prod    Materials consistency d	\$223.91    .907    330    .166 LCY    lume:  4 a.    ell factor:  Cat    CTION    luction:  150 f.    description:  Cat	eet LCY/hr	  mbankment 0.9		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swell    HOURLY PRODUC    Average push distance:    Unadjusted hourly prod    Materials consistency d    Average push gradient:	\$223.91 <b>XTITIES</b> ,907 330 <b>(166</b> LCY lume: <u>4 a</u> ell factor: <u>Cat</u> CTION luction: <u>150 f</u> luction: <u>634.3</u> lescription: <u>C</u>	Handbook eet LCY/hr Compacted fill or en	  mbankment 0.9		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swell    HOURLY PRODUC    Average push distance:    Unadjusted hourly prod    Materials consistency d    Average push gradient:    Average site altitude:	\$223.91 <b>XTITIES</b> ,907 330 <b>,166</b> LCY lume: <u>4</u> a ell factor: <u>Cat</u> CTION luction: <u>150 fo</u> fuction: <u>634.3</u> lescription: <u>C</u> <u>0 %</u> <u>6,600 feet</u> <u>2,900 lbs/LC</u>	Handbook eet LCY/hr Compacted fill or en			
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol    Source of estimated swell    HOURLY PRODUC    Average push distance:    Unadjusted hourly prod    Materials consistency d    Average push gradient:    Average site altitude:    Material weight:    Weight description:    Job Condition Correction	\$223.91    NTITIES    ,907    330    ,166 LCY    lume:  4 a    ell factor:  Cat    CTION    luction:  634.3    lescription:  0	Handbook eet LCY/hr Compacted fill or en CY d rock - 50% Rock,	50% Earth		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol  Source of estimated swell    Source of estimated swell  Source of estimated swell    HOURLY PRODUC  Average push distance:    Unadjusted hourly produce  Materials consistency description:    Average site altitude:  Material weight:    Weight description:  Job Condition Correction    Operator  Operator	\$223.91    NTITIES    ,907    330    ,166 LCY    lume:  4 a    ell factor:  Cat    CTION    luction:  150 fd    huction:  634.3    lescription:  0	E Handbook eet LCY/hr Compacted fill or en CY d rock - 50% Rock, 0.750	50% Earth Source (AVG.)		
Total Fleet Cost/Hour:    MATERIAL QUAN    Initial Volume:  12    Swell factor:  1.3    Loose volume:  17    Source of estimated vol  Source of estimated swell    Source of estimated swell  Source of estimated swell    HOURLY PRODUC  Average push distance:    Unadjusted hourly produce  Materials consistency description:    Average site altitude:  Material weight:    Weight description:  Lob Condition Correction    Operator  Material consi	\$223.91    .907    330    .166 LCY    lume:  4 avents    ell factor:  Cat    CTION    duction:  150 fm    function:  634.3    description:  C    0 %  6,600 feet    2,900 lbs/LC  Decomposed    on Factor  or Skill:    .stency:	E Handbook eet LCY/hr Compacted fill or en CY d rock - 50% Rock, 0.750 0.900	, 50% Earth <u>Source</u> (AVG.) (CAT HB))		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 12 Swell factor: 1.: Loose volume: 17 Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Lob Condition Correction Material consi Dozing m	\$223.91    .907    330    .166 LCY    lume:  4 avents    ell factor:  Cat    CTION    duction:  150 fm    function:  634.3    description:  C    0 %  6,600 feet    2,900 lbs/LC  Decomposed    on Factor  or Skill:    .stency:	E Handbook eet LCY/hr Compacted fill or en CY d rock - 50% Rock, 0.750	50% Earth Source (AVG.)		

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradient:		1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weight:		0.793	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correctio	on:	0.3554	
Adjusted unit production:	22:	5.43 LCY/hr	
Adjusted fleet production:	22	5.43 LCY/hr	
-			

Fleet size:	1 Dozer(s)
Unit cost:	\$0.993/LCY

Total job time:	<b>76.15</b> Hours
Total job cost:	\$17,051

Page 1 of 2

# BULLDOZER WORK

Task description:	2100110400 010	•	4 acres of Site A		
Surface Rock Pit	Perr	mit Action:	SO-4	Permit/Job#:	M1984001
<b>PROJECT IDENTIF</b>	ICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: $\frac{0211}{8/2/2018}$	County:	Mesa		Filename:	M001-02a
User: ACY	county.	mesu		-	11001 024
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	ENT COST				
	D8T - 8SU				
Horsepower: 310					
• •	ni-Universal				
Attachment: NA					
	er day				
Data Source: (CH	RG)				
Cost Breakdown:					
		¢00.50	<u>Utilization %</u>		
Ownership Cost/Hour:		\$93.62	NA		
Operating Cost/Hour:		\$73.35	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	100		
		\$40.23	NA		
Operator Cost/Hour: Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT	\$207.20 \$207.20 TTIES	φ <del>1</del> 0.23			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$207.20 TTIES 7				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,22 Swell factor: 1.00 Loose volume: 3,22	\$207.20 TTIES 7 0 7 LCY				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>3,22</u> Swell factor: <u>1.00</u>	\$207.20 TTIES 7 0 7 LCY me: <u>6" of tops</u> 1 factor: <u>Cat Hand</u> <u>CION</u> 100 feet				
Fotal unit Cost/Hour:    Fotal Fleet Cost/Hour:    MATERIAL QUANT    Initial Volume:  3,22    Swell factor:  1.00    Loose volume:  3,22    Source of estimated volu    Source of estimated swell    HOURLY PRODUCT    Average push distance:	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle <b>FION</b> ction:  100 feet    852.6 LCY/	 soil over 4 ac book			
Fotal unit Cost/Hour:    Fotal Fleet Cost/Hour:    Total Fleet Cost/Hour:    MATERIAL QUANT    Initial Volume:  3,22    Swell factor:  1.00    Loose volume:  3,22    Source of estimated volum    Source of estimated swell    HOURLY PRODUCT    Average push distance:    Jnadjusted hourly product	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle <b>FION</b> ction:  100 feet    852.6 LCY/	 soil over 4 ac book	 pres		
Fotal unit Cost/Hour:    Fotal Fleet Cost/Hour:    MATERIAL QUANT    Initial Volume:  3,22    Swell factor:  1.00    Loose volume:  3,22    Source of estimated volum    Source of estimated swell    HOURLY PRODUCT    Average push distance:    Jnadjusted hourly product    Materials consistency destribution	\$207.20      TTIES      7      0      7 LCY      me:    6" of tops      1 factor:    Cat Hand      Partly cat	 soil over 4 ac book	 pres		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,22 Swell factor: 1.00 Loose volume: 3,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency destance: Average push gradient:	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle    FION    ction:  100 feet    scription:  Partly c    5 %	 soil over 4 ac book	 pres		
Fotal unit Cost/Hour:    Fotal Fleet Cost/Hour:    Total Fleet Cost/Hour:    MATERIAL QUANT    Initial Volume:  3,22    Swell factor:  1.00    Loose volume:  3,22    Source of estimated volum    Source of estimated volum    Source of estimated swell    HOURLY PRODUCT    Average push distance:    Jnadjusted hourly product    Materials consistency des    Average push gradient:    Average site altitude:	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle <b>FION</b> ction:  100 feet    scription:  Partly c    5 %    6,600 feet	 soil over 4 ac book	 pres		
Fotal unit Cost/Hour:    Fotal Fleet Cost/Hour:    Initial Volume:  3,22    Swell factor:  1.00    Loose volume:  3,22    Source of estimated volum    Source of estimated volum    Gource of estimated swell    HOURLY PRODUCT    Average push distance:    Jnadjusted hourly product    Materials consistency des    Average site altitude:    Material weight:	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle    CION    ction:  100 feet    ction:  852.6 LCY/    scription:  Partly c    5 %  6,600 feet    1,600 lbs/LCY  Top Soil	 soil over 4 ac book	 pres		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,22 Swell factor: 1.00 Loose volume: 3,22 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Operator	\$207.20TTIES707 LCYme:6" of tops1 factor:Cat HandleCat HandleConstantCat HandleConstantCat HandleConstantCat HandleConstantCat HandleConstantCat HandleConstantCat HandleConstantCat HandleCat Handle		stockpile 1.1		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,22 Swell factor: 1.00 Loose volume: 3,22 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Operator Material consist	\$207.20    TTIES    7    0    7 LCY    me:  6" of tops    1 factor:  Cat Handle    TION    ction:  100 feet    scription:  Partly c    5 %    6,600 feet    1,600 lbs/LCY    Top Soil    Factor    Skill:  0.7				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,22 Swell factor: 1.00 Loose volume: 3,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Operator Material consist Dozing me	\$207.20TTIES70707071007CYme:6" of tops1 factor:Cat HandleCat HandleConstant of the second		stockpile 1.1		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 1.438	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.7113	
Adjusted unit production:	606.45 LCY/hr	
Adjusted fleet production:	606.45 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.342/LCY

Total job time:	<b>5.32</b> Hours
Total job cost:	\$1,103

# **REVEGETATION WORK**

Task description: <b>Re</b>		Reveg of 4 acres in Site A-h	ighwall floor		
: Surface Rock Pit		Permit Action: SO-4		Permit/Job#: M198400	
<b>PROJECT</b>	<u>IDENTIFI</u>	<u>CATION</u>			
Task #:	03A	State: Colorado		Abbreviation:	None
Date:	8/2/2018	County: Mesa		Filename:	M001-03a

# **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/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$92.77
Total Tilling Cost/Acre	\$92.77

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.50	4.86	\$14.63
Blue Grama - Native	0.50	8.16	\$7.43
Sand Dropseed	0.80	95.50	\$8.88
Intermediate Wheatgrass - Oahe	4.50	9.61	\$17.69
Sainfoin - Remont	5.00	2.18	\$16.20
Saltbush, Four Wing	0.80	1.10	\$10.24
Winter Fat	0.50	1.27	\$10.50
Totals Seed Mix	13.60	122.68	\$85.55

### Application

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

# **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.81	\$2.81
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$578.81

### Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, truck, non-aquatic area, nox. [DMG]		\$73.22
	Total Mulch Application Cost/Acre	\$166.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Pinyon	5	Tubling, 10 cu. in. container {(MEANS)	\$4.78	\$2.40	\$23.90
Totals Nursery Stock Cost / Acre					\$23.90

N	o. of Acres:	4	Cost /Acre:	\$1,179.03
Estimated F	ailure Rate:	50%	Cost /Acre*:	\$1,179.03
*Selected Replanting V	Work Items:	TILLING,SEEDIN	JG,NURSERY,MULC	
	-	HING		
Initial Job Cost: \$4	,716.12			
Reseeding Job Cost: \$2	,358.06			
Total Job Cost: <b>\$7</b>	,074			
Job Hours: 16	.00			

# **REVEGETATION WORK**

Task description:		Failure Reveg of 2.5	acres Site	A-eastern reclaime	d area		
Site: Surface Rock Pit		Permit Action: SO-4 Permit/Jo		o#: M1984001			
<u>PR</u>		DENTIFIC					
	Task #:	03B	State: Co	olorado		Abbreviation:	None
	Date:	9/19/2018	County: M	esa		Filename:	M001-03b
	User:	ACY					
	Age	ncy or organiz	zation name: DRMS				

# **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/Acre	\$0.00

## TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$92.77
Total Tilling Cost/Acre	\$92.77

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.50	4.86	\$14.63
Blue Grama - Native	0.50	8.16	\$7.43
Sand Dropseed	0.80	95.50	\$8.88
Intermediate Wheatgrass - Oahe	4.50	9.61	\$17.69
Sainfoin - Remont	5.00	2.18	\$16.20
Saltbush, Four Wing	0.80	1.10	\$10.24
Winter Fat	0.50	1.27	\$10.50
Totals Seed Mix	13.60	122.68	\$85.55

### Application

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

# **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.81	\$2.81
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$578.81

### Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$92.78
Weed spray, truck, non-aquatic area, nox. [DMG]		\$73.22
	Total Mulch Application Cost/Acre	\$166.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Pinyon	5	Tubling, 10 cu. in. container {(MEANS)	\$4.78	\$2.40	\$23.90
		Total	s Nursery Stoc	ek Cost / Acre	\$23.90

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	50%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$0.00 \$2,948		-	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init	tial Mobilization					
Surface Rock l	Pit	Permit	Action: SO-4			Permit/Job#:	M1984001
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 04A	1	State: Co	olorado		Abbre	eviation: No	ne
Date: 8/2/ User: AC	2018 Y	County: Me	esa		Fi	ilename: M0	01-04a
Agency of	or organization	n name: DRMS					
EQUIPMENT T	<u>RANSPOR</u>	<u>T RIG COST</u>					
				(	Shift ba Cost Data Sou		
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,		EL POWERED,
Truck	c Trailer Desc	ription: G	ENERIC FOLD		· · · · ·	,	UIPMENT
			]	<b>FRAILER</b>	(25T, 50T, AN	ND 100T)	
Cost Breakdown:							
Available Rig Ca	apacities	0-25 Tons	26-50 Tons	51+	- Tons		
	Cost/Hour:	\$16.63	\$18.37		22.33		
	Cost/Hour:	\$44.38	\$46.13		50.07		
	Cost/Hour:	\$27.66	\$27.66		27.66		
	Cost/Hour:	\$0.00	\$25.39	\$2	25.39		
Total Unit	Cost/Hour:	\$88.67	\$117.55	\$12	25.45		
NON ROADABI	<u>LE EQUIPN</u>	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	t Cost/ fleet
Cat D8T - 8SU	53.08	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Power Mulcher	6.00	\$8.33	\$88.67	1	\$97.00	\$88.67	\$250.00
(Bowie LD-90)							

## **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	\$47.74	1	\$47.74	\$47.74
		Subtotals:	\$47.74	\$47.74

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	22.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$3,074.15	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$46.68	

### Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.49	0.49
Return Time (Hours):	0.49	0.49
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.98	0.98

Total job time:	3.96	Hours
Total job cost:	\$3,121	_

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Surface Rock	Pit	Permit	Action: SO-4		1	Permit/Job#:	M1984001
ROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 04E	3	State: Co	olorado		Abbre	eviation: No	one
Date: 9/19 User: AC	9/2018 Y	County: M	esa		Fi	lename: M	001-04b
Agency of	or organization	n name: DRMS					
QUIPMENT 1	RANSPOR	<u>T RIG COST</u>					
				(	Shift ba Cost Data Sour		
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,		SEL POWERED,
Trucl	k Trailer Desc	ription: G	ENERIC FOLD	NG GOO	· · · · · · · · · · · · · · · · · · ·	ROP DECK EQ	QUIPMENT
	k Trailer Desc	ription: G		NG GOO	SENECK, DF	ROP DECK EQ	QUIPMENT
ost Breakdown: Available Rig Ca	apacities	0-25 Tons	26-50 Tons	DING GOO ΓRAILER 51+	SENECK, DF (25T, 50T, A) - Tons	ROP DECK EQ	QUIPMENT
ost Breakdown: Available Rig Ca Ownership	apacities Cost/Hour:	0-25 Tons \$16.63	<b>26-50 Tons</b> \$18.37	DING GOO ΓRAILER 51+ \$2	SENECK, DF (25T, 50T, AN - Tons 22.33	ROP DECK EQ	QUIPMENT
ost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38	<b>26-50 Tons</b> \$18.37 \$46.13	DING GOO ΓRAILER 51+ \$2 \$5	SENECK, DF (25T, 50T, AN - Tons (2.33 50.07	ROP DECK EQ	QUIPMENT
ost Breakdown: Available Rig C: Ownership Operating Operator	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66	DING GOO ΓRAILER 51+ \$2 \$5 \$2 \$2 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN - Tons 22.33 50.07 27.66	ROP DECK EQ	QUIPMENT
Cost Breakdown: Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	DING GOO <u>FRAILER</u> 51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN - Tons 22.33 50.07 27.66 25.39	ROP DECK EQ	QUIPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66	DING GOO <u>FRAILER</u> 51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN - Tons 22.33 50.07 27.66	ROP DECK EQ	QUIPMENT
ost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39	DING GOO <u>FRAILER</u> 51+ \$2 \$5 \$2 \$2 \$2 \$2	SENECK, DF (25T, 50T, AN - Tons 22.33 50.07 27.66 25.39	ROP DECK EQ	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit CON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	DING GOO FRAILER 51+ \$2 \$5 \$2 \$2 \$1	SENECK, DF (25T, 50T, AN 22.33 50.07 27.66 25.39 25.45	ROP DECK EQ	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit CON ROADAB Machine Description	apacities 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	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	PING GOO FRAILER 51+ \$2 \$5 \$2 \$1 \$1 Fleet	SENECK, DF (25T, 50T, AN 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	ROP DECK EQ	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Drill/Broadcast Seeder with	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM 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	Fleet Size	SENECK, DF (25T, 50T, AN - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	ROP DECK EQ ND 100T) Return Trip Cost/hr/ flee	DOT Permit Cost/ fleet

### **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	\$47.74	1	\$47.74	\$47.74
		Subtotals:	\$47.74	\$47.74

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	22.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,772.56 \$46.68	_

### Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.49	0.49
0.49	0.49
0.50	NA
0.50	NA
1.98	0.98
	Roadable      Equipment      0.49      0.49      0.50      0.50

Total job time:	3.96	Hours
Total job cost:	\$1,819	_