



STATE OF  
COLORADO

Wein - DNR, Clayton <clayton.wein@state.co.us>

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## Deserado MR-185 Reclamation Cost Estimate

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Wein - DNR, Clayton <clayton.wein@state.co.us>

Thu, Jul 13, 2023 at 1:38 PM

To: Kurt Blunt <kblunt@deserado.com>

Good afternoon Kurt,

Attached is a copy of the reclamation estimate for MR-185. There are no adequacy questions from the Division at this time. Please review the estimate and let me know if you have any questions or concerns. If you are ok with the estimate the Division will be ready to approve the revision.

Sincerely,

Clayton Wein

Environmental Protection Specialist



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

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**Deserado MR-185 Reclamation Cost Estimate.pdf**

404K

## COST SUMMARY WORK

Task description: Plug and seal 2 Nitrogen Wells and the RS-4R Return Shaft

Site: Deserado Mine

Permit Action: MR185

Permit/Job#: C1981018

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/13/2023

County: Moffat

Filename: C018-000

User: CCW

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Plug and seal Nitrogen Wells	BOREHOLE	1	0.00	\$274
002	Seal and Abandon RS-4R Return Shaft	BOREHOLE	1	0.00	\$1,022
003	Backfill and Regrade MR-185 Drill Pads	DOZER	1	0.96	\$441
004	Backfill and Regrade RS-4R pad	DOZER	1	0.48	\$221
005	Backfill and Regrade MR-185 Access Roads	DOZER	1	3.10	\$1,427
006	Replace Topsoil on MR-185 Drill Pads	DOZER	1	0.48	\$221
007	Replace Topsoil on RS-4R Drill Pad	DOZER	1	0.24	\$110
008	Replace Topsoil on MR-185 Access Roads	DOZER	1	1.55	\$713
009	Reseed Drill Pads	REVEGE	1	10.00	\$188
010	Reseed RS-4R Pad	REVEGE	1	10.00	\$94
011	Reseed MR-185 Access Roads	REVEGE	1	10.00	\$606
<b><u>SUBTOTALS:</u></b>				<b>36.81</b>	<b>\$5,317</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 18.41  
Profit: 10.00

Total = \$107  
Total = \$56  
Total = \$1,198  
Total = \$532

TOTAL O & P = \$1,893

CONTRACT AMOUNT (direct + O & P) = \$7,210

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0  
Engineering work and/or contract/bid preparation: 4.00  
Reclamation management and/or administration: 3.13

Total = \$0  
Total = \$288  
Total = \$226

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$2,407

**TOTAL BOND AMOUNT (direct + indirect) = \$7,724**

## BOREHOLE SEALING WORK

Task description: Plug and seal Nitrogen Wells

Site: Deserado Mine

Permit Action: MR185

Permit/Job#: C1981018

### PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 7/13/2023

County: Moffat

Filename: C018-001

User: CCW

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal and Abandon 2 Nitrogen Injection wells	Portland cement grout ( Bag, material cost only...94 lb. bag)	3.5	10' x 2	3.00	bag	\$19.95	\$59.85
Bottom Plug x2	PVC plug - 4 in. diameter borehole	3.5	NA	2.00	EA	\$35.35	\$70.71
Cut Casing x2	Exposed casing removal - Calculate Circumference in Linear Feet	3.5	NA	1.83	LF	\$4.55	\$8.33
Borehole Identification Marker x2	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$39.00	\$78.00
Truck and Labor	Flatbed Truck, 4x2, 15K GVW	NA	NA	2.00	EA	\$28.57	\$57.14

Job Hours: 0.00

Total Cost: \$274.00

## BOREHOLE SEALING WORK

Task description: Seal and Abandon RS-4R Return Shaft

Site: Deserado Mine

Permit Action: MR185

Permit/Job#: C1981018

### PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 7/13/2023

County: Moffat

Filename: C018-002

User: CCW

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Concrete Plug	Portland cement grout ( Bag, material cost only...94 lb. bag)	26"	10'	19.00	bag	\$19.95	\$379.05
Bottom Plug	PVC plug - 12 in. diameter borehole	26"	NA	2.00	EA	\$164.34	\$328.67
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	26"	NA	6.75	LF	\$4.55	\$30.71
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Truck and Labor	Flatbed Truck, 6x4, 45K GVW	NA	NA	4.00	EA	\$61.15	\$244.60

Job Hours: 0.00

Total Cost: \$1,022.00

**BULLDOZER WORK**Task description: **Backfill and Regrade MR-185 Drill Pads**Site: **Deserado Mine**Permit Action: **MR185**Permit/Job#: **C1981018****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **7/13/2023**County: **Moffat**Filename: **C018-003**User: **CCW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D9T - 9SU**Horsepower: **405**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own.		
Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: **629**Swell factor: **1.250**Loose volume: **786 LCY**Source of estimated volume: **MR-185 Application**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **2,110.5 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **5,700 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit  
production: 820.98 LCY/hr  
Adjusted fleet  
production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.561/LCY

Total job time: **0.96** Hours  
Total job cost: **\$441**

**BULLDOZER WORK**Task description: **Backfill and Regrade RS-4R pad**Site: **Deserado Mine**Permit Action: **MR185**Permit/Job#: **C1981018****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **7/13/2023**County: **Moffat**Filename: **C018-004**User: **CCW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D9T - 9SU**Horsepower: **405**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: **315**Swell factor: **1.250**Loose volume: **393 LCY**Source of estimated volume: **MR-185 Application**Source of estimated swell  
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly  
production: **2,110.5 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push  
gradient: **0 %**Average site altitude: **5,700 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit  
production: 820.98 LCY/hr  
Adjusted fleet  
production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.561/LCY

Total job time: **0.48** Hours  
Total job cost: **\$221**



**BULLDOZER WORK**Task description: **Backfill and Regrade MR-185 Access Roads**Site: **Deserado Mine**Permit Action: **MR185**Permit/Job#: **C1981018****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **7/13/2023**County: **Moffat**Filename: **C018-005**User: **CCW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D9T - 9SU**Horsepower: **405**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own.		
Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: **2,035**Swell factor: **1.250**Loose volume: **2,544 LCY**Source of estimated volume: **MR-185 Application**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **2,110.5 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **5,700 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 820.98 LCY/hr

Adjusted fleet production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.561/LCY

Total job time: **3.10** Hours

Total job cost: **\$1,427**

**BULLDOZER WORK**Task description: **Replace Topsoil on MR-185 Drill Pads**Site: **Deserado Mine**Permit Action: MR185Permit/Job#: C1981018**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 7/13/2023County: MoffatFilename: C018-006User: CCWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: 315Swell factor: 1.250Loose volume: **394 LCY**Source of estimated volume: MR-185 ApplicationSource of estimated swell  
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly  
production: 2,110.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push  
gradient: 0 %Average site altitude: 5,700 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit  
production: 820.98 LCY/hr  
Adjusted fleet  
production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.561/LCY

Total job time: **0.48** Hours  
Total job cost: **\$221**

**BULLDOZER WORK**Task description: **Replace Topsoil on RS-4R Drill Pad**Site: **Deserado Mine**Permit Action: **MR185**Permit/Job#: **C1981018****PROJECT IDENTIFICATION**Task #: **007**State: **Colorado**Abbreviation: **None**Date: **7/13/2023**County: **Moffat**Filename: **C018-007**User: **CCW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D9T - 9SU**Horsepower: **405**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: **157**Swell factor: **1.250**Loose volume: **196 LCY**Source of estimated volume: **MR-185 Application**Source of estimated swell  
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly  
production: **2,110.5 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push  
gradient: **0 %**Average site altitude: **5,700 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit  
production: 820.98 LCY/hr  
Adjusted fleet  
production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.561/LCY

Total job time: **0.24** Hours  
Total job cost: **\$110**

**BULLDOZER WORK**Task description: **Replace Topsoil on MR-185 Access Roads**Site: **Deserado Mine**Permit Action: MR185Permit/Job#: C1981018**PROJECT IDENTIFICATION**Task #: 008State: ColoradoAbbreviation: NoneDate: 7/13/2023County: MoffatFilename: C018-008User: CCWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own.		
Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$460.67	
Total Fleet Cost/Hour:	<b>\$460.67</b>	

**MATERIAL QUANTITIES**Initial Volume: 1,017Swell factor: 1.250Loose volume: **1,271 LCY**Source of estimated volume: MR-185 ApplicationSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 5,700 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% EarthJob Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit  
production: 820.98 LCY/hr  
Adjusted fleet  
production: **820.98** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.561/LCY

Total job time: **1.55** Hours  
Total job cost: **\$713**



REVEGETATION WORKTask description: Reseed Drill PadsSite: Deserado MinePermit Action: MR185Permit/Job#: C1981018PROJECT IDENTIFICATIONTask #: 009State: ColoradoAbbreviation: NoneDate: 7/13/2023County: Rio BlancoFilename: C018-009User: CCWAgency or organization name: DRMSFERTILIZING**Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

TILLING

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Indian Ricegrass - Nespar	0.40	1.29	\$3.55
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.44
Canby Bluegrass - Canbar	0.20	4.25	\$2.05
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Bottlebrush Squirreltail	0.20	0.88	\$3.25
Sandberg Bluegrass - VNS	0.20	4.25	\$1.68

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
<b>Totals Seed Mix</b>	<b>19.20</b>	<b>99.54</b>	<b>\$149.52</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 0.3                      Cost /Acre: \$416.74  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$416.74  
 \*Selected Replanting Work Items: SEEDING  
 Initial Job Cost: \$125.02

Reseeding Job Cost:	<b>\$62.51</b>
Total Job Cost:	<b>\$188</b>
Job Hours:	<b>10.00</b>

**REVEGETATION WORK**Task description: Reseed RS-4R PadSite: Deserado MinePermit Action: MR185Permit/Job#: C1981018**PROJECT IDENTIFICATION**Task #: 010State: ColoradoAbbreviation: NoneDate: 7/13/2023County: Rio BlancoFilename: C018-010User: CCWAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Indian Ricegrass - Nespar	0.40	1.29	\$3.55
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.44
Canby Bluegrass - Canbar	0.20	4.25	\$2.05
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Bottlebrush Squirreltail	0.20	0.88	\$3.25
Sandberg Bluegrass - VNS	0.20	4.25	\$1.68

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
<b>Totals Seed Mix</b>	<b>19.20</b>	<b>99.54</b>	<b>\$149.52</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 0.15                      Cost /Acre: \$416.74  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$416.74  
 \*Selected Replanting Work Items: SEEDING  
 Initial Job Cost: \$62.51

Reseeding Job Cost:	<b>\$31.26</b>
Total Job Cost:	<b>\$94</b>
Job Hours:	<b>10.00</b>

REVEGETATION WORKTask description: Reseed MR-185 Access RoadsSite: Deserado MinePermit Action: MR185Permit/Job#: C1981018PROJECT IDENTIFICATIONTask #: 011State: ColoradoAbbreviation: NoneDate: 7/13/2023County: Rio BlancoFilename: C018-011User: CCWAgency or organization name: DRMSFERTILIZING**Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

TILLING

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Indian Ricegrass - Nespar	0.40	1.29	\$3.55
Beardless Wheatgrass - Whitmar	0.50	1.63	\$5.86
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.44
Canby Bluegrass - Canbar	0.20	4.25	\$2.05
Crested Wheatgrass - Nordan	4.00	18.37	\$15.60
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Bottlebrush Squirreltail	0.20	0.88	\$3.25
Sandberg Bluegrass - VNS	0.20	4.25	\$1.68

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
<b>Totals Seed Mix</b>	<b>19.20</b>	<b>99.54</b>	<b>\$149.52</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 0.97                      Cost /Acre: \$416.74  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$416.74  
 \*Selected Replanting Work Items: SEEDING  
 Initial Job Cost: \$404.24



Reseeding Job Cost:	<b>\$202.12</b>
Total Job Cost:	<b>\$606</b>
Job Hours:	<b>10.00</b>