



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, Colorado 80203

March 9, 2017

David A. King
Eastern Colorado Aggregates, RLLLP
P.O. Box 580
Rye, CO 81069

Re: Midwestern Farms, Permit No. M-1993-059, Technical Revision No. 5 (TR-05) Approval

Mr. King:

On March 9, 2017, the Division of Reclamation, Mining and Safety (Division) approved the Technical Revision No. 5 application submitted to the Division on October 25, 2016, addressing the following:

Reduce topsoil replacement depth to 8 inches, eliminate wetland and tree planting, leave 36.5 acres of sandy beaches at request of CPW, change post-mining land use of 64 acre field from dryland farmland to rangeland and recreation, and increase maximum allowed disturbed area to 439.2 acres.

The terms of the Technical Revision No. 5 approved by the Division are hereby incorporated into Permit No. M-1993-059. All other conditions and requirements of Permit No. M-1993-059 remain in full force and effect.

The Division recalculated the required financial warranty to account for the reclamation plan revisions approved with Technical Revision No. 5 (see enclosed bond estimate). The Division has determined the required financial warranty to be in the amount of \$1,065,236.00, which is \$517,764.00 less than the currently held bond of \$1,583,000.00. Therefore, the operator may submit a Surety Reduction request (see enclosed form).

If you have any questions, you may contact me by telephone at (303) 866-3567, ext. 8129, or by email at amy.eschberger@state.co.us.

Sincerely,

Amy Eschberger
Environmental Protection Specialist

Enclosure(s): Division's bond estimate, revised 3-9-2017
 Surety Reduction form



Cc: George Tempel
Midwestern Farms
P.O. Box 246
Wiley, CO 81092

Mel DePra (via email: mdepra@southeastnet.net)

Chris Neumann (via email: neumannc@gtlaw.com)

Richard Ranson (via email: ranson@ranson-kane.com)

Wally Erickson, DRMS



COST SUMMARY WORK

Task description: Cost Summary

Site: Midwestern Farms

Permit Action: TR-05 rev 3-9-2017

Permit/Job#: M1993059

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/9/2017

County: Prowers

Filename: M059-000

User: AME

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade E pond shoreline to 3H:1V	DOZER	2	133.96	\$51,393.00
002	Rip stockpiling and plant area, 221.5 acres	RIPPER	2	158.90	\$65,656.00
003	Rip outer edges, 33.6 acres	RIPPER	2	25.66	\$10,603.00
004	Replace 8 inches topsoil, 255.1 acres	SCRAPER1	1	379.97	\$371,689.00
005	Plant cover crop on 255.1 acres	REVEGE	1	255.00	\$160,060.00
006	Seed 255.1 acres	REVEGE	1	510.00	\$173,669.00
007	Excavate material to connect two ponds	EXCAVATE	1	72.55	\$5,710.00
008	Grade shorelines created by dike breach to 6H:1V	DOZER	2	1.91	\$734.00
009	Mobilization/Demobilization of equipment	MOBILIZE	1	17.74	\$32,174.00
<u>SUBTOTALS:</u>				1555.69	\$871,688

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$17,608.10

Performance bond: 1.05

Total = \$9,152.72

Job superintendent: 389.00

Total = \$28,416.45

Profit: 10.00

Total = \$87,168.80

TOTAL O & P = \$142,346.07

CONTRACT AMOUNT (direct + O & P) = \$1,014,034.07

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$50,701.70

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$193,547.77

TOTAL BOND AMOUNT (direct + indirect) = \$1,065,235.77

BULLDOZER WORKTask description: **Grade E pond shoreline to 3H:1V**Site: **Midwestern Farms**Permit Action: **TR-05 rev 3-9-2017**Permit/Job#: **M1993059****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **3/9/2017**County: **Prowers**Filename: **M059-001**User: **AME**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: **\$191.83**Total Fleet Cost/Hour: **\$383.65****MATERIAL QUANTITIES**Initial Volume: **248,675**Swell factor: **1.270**Loose volume: **315,817 LCY**Source of estimated volume: **5,481 ft of shoreline from 1H:1V to 3H:1V, 35 ft h**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,400.0 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-10 %**Average site altitude: **3,400 feet**Material weight: **2,700 lbs/LCY**Weight description: **Earth - Wet excavated****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)

Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8420

Adjusted unit production: 1,178.80 LCY/hr

Adjusted fleet production: **2357.6** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.163/LCY

Total job time: **133.96** Hours

Total job cost: **\$51,393**

BULLDOZER RIPPING WORK

Task description: Rip stockpiling and plant area, 221.5 acres

Site: Midwestern Farms

Permit Action: TR-05 rev 3-9-2017

Permit/Job#: M1993059

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 3/9/2017

County: Prowers

Filename: M059-002

User: AME

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Ripper Attachment: 3-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper Ownership Cost/Hour:	\$7.55	NA
Ripper Operating Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA
Total Unit Cost/Hour:	\$206.59	
Total Fleet Cost/Hour:	\$413.17	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 221.50 acres Rip Depth (ft): 2.00 Volume: 714,707 BCY or CCY

Source of estimated quantity: ECA TR-5 adeq response

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.00 mph
Average Ripping Width: 7.08 degrees
Average Ripping Length: 999.00 feet
Average Dozer Speed: 88.00 feet
Average Maneuver Time: 0.25 feet
Production per unit area: 0.840 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.840 Acres/hr
Site Altitude: 3,400 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.70 Acres/hr

Adjusted Hourly Fleet Production: 1.39 Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 158.91 Hours

Unit cost: \$296.423 Per acre Total job cost: \$65,656

BULLDOZER RIPPING WORK

Task description: Rip outer edges, 33.6 acres

Site: Midwestern Farms

Permit Action: TR-05 rev 3-9-2017

Permit/Job#: M1993059

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 3/9/2017

County: Prowers

Filename: M059-003

User: AME

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Ripper Attachment: 3-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper Ownership Cost/Hour:	\$7.55	NA
Ripper Operating Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA
Total Unit Cost/Hour:	\$206.59	
Total Fleet Cost/Hour:	\$413.17	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 33.60 acres Rip Depth (ft): 2.00 Volume: 108,416 BCY or CCY

Source of estimated quantity: ECA TR-5 adeq response

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.00 mph
Average Ripping Width: 7.08 degrees
Average Ripping Length: 250.00 feet
Average Dozer Speed: 88.00 feet
Average Maneuver Time: 0.25 feet
Production per unit area: 0.789 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.789 Acres/hr
Site Altitude: 3,400 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.65 Acres/hr
Adjusted Hourly Fleet Production: 1.31 Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 25.66 Hours

Unit cost: \$315.559 Per acre Total job cost: \$10,603

SCRAPER TEAM WORKTask description: **Replace 8 inches topsoil, 255.1 acres**Site: **Midwestern Farms**Permit Action: **TR-05 rev 3-9-2017**Permit/Job#: **M1993059****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **3/9/2017**County: **Prowers**Filename: **M059-004**User: **AME**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	50	50	50
Ownership cost/hour:	\$143.40	NA	NA	\$83.81	\$54.68	\$11.45
Operating cost/hour:	\$153.53	NA	NA	\$33.09	\$23.50	\$12.02
%Utilization-ripper:	NA	NA	NA	50	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$7.55	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$3.61	\$0.00	\$0.00
Operator cost/hour:	\$31.26	NA	NA	\$41.85	\$28.90	\$21.39
Unit Subtotals:	\$328.19	NA	NA	\$169.90	\$107.07	\$44.86
Number of Units:	2	0	0	1	1	1
Group Subtotals:	Work: \$656.38		Support: \$169.90		Maint: \$151.93	

Total work team cost/hour: **\$978.21****MATERIAL QUANTITIES**Initial volume: **225,823**

CCY

Swell factor: **1.215**Loose volume: **274,375**

LCY

Source of estimated volume: **255.1 ac x 8 in depth (not incl 36.5 ac shoreline)**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: **1,600 lbs/LCY**
 Material description: **Top Soil**
 Rated Payload: **81,600 pounds**
 Payload Capacity: **51.00 LCY**

Struck Volume: **24.00** LCY
 Heaped Volume: **34.00** LCY
 Average Volume: **29.00** LCY
 Adjusted Capacity: **29.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 3400 feet

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

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	0.00	4.00	4.00	2394	1.41

Haul Time: 1.41 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	0.00	4.00	4.00	2910	1.19

Return Time: 1.19 minutesTotal Scraper team cycle time: 4.00 minutesAdjusted for job conditions: 361.05 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 722.10 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 722.10 LCY/HourUnadjusted unit production/hour: 435.00 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 379.97 HoursUnit cost: \$1.355 /LCYTotal job cost: \$371,689

REVEGETATION WORKTask description: Plant cover crop on 255.1 acresSite: Midwestern FarmsPermit Action: TR-05 rev 3-9-2017Permit/Job#: M1993059**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 3/9/2017County: ProwersFilename: M059-005User: AMEAgency or organization 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Weed control spraying (MEANS 31 31 16.13 3100)	\$242.00
Total Tilling Cost/Acre	\$348.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Millet, Foxtail - German R	1.20	2.26	\$1.14
Oats - Ajay	1.50	0.45	\$0.50
Sorghum, Hybr. Forage	1.80	1.03	\$1.31
Sunflower	1.30	3.62	\$44.20
Totals Seed Mix	5.80	7.36	\$47.15

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

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:	255.1	Cost /Acre:	\$627.44
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$160,059.94
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$160,060
Job Hours:	255.00

REVEGETATION WORKTask description: Seed 255.1 acresSite: Midwestern FarmsPermit Action: TR-05 rev 3-9-2017Permit/Job#: M1993059**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 3/9/2017County: ProwersFilename: M059-006User: AMEAgency or organization 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Altai Wildrye - Prairieland	0.75	1.00	\$4.49
Sand Lovegrass - Bend	0.20	6.89	\$4.00
Blue Grama - Native	0.24	3.92	\$3.48
Sand Dropseed	0.05	5.97	\$0.54
Sideoats Grama - Vaughn	1.38	4.53	\$13.80
Western Wheatgrass - Native	0.80	2.02	\$5.60
Totals Seed Mix	3.42	24.32	\$31.91

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]	\$170.90
Weed spray, hand, non-aquatic area, nox. [DMG]	\$180.00
Total Mulch Application Cost/Acre	\$350.90

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:	255.1	Cost /Acre:	\$614.81
Estimated Failure Rate:	25%	Cost /Acre*:	\$263.91
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$156,838.03
Reseeding Job Cost:	\$16,830.86
Total Job Cost:	\$173,669
Job Hours:	510.00

HYDRAULIC EXCAVATOR WORK

Task description: Excavate material to connect two ponds

Site: Midwestern Farms

Permit Action: TR-05 rev 3-9-2017

Permit/Job#: M1993059

PROJECT IDENTIFICATION

Task #: 007

State: Colorado

Abbreviation: None

Date: 3/9/2017

County: Prowers

Filename: M059-007

User: AME

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 312D L 9'-2" Stick

Attachment 1: ROPS Cab

Horsepower: 90

Weight (MT): 13.48

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$21.10	NA
Operating Cost/Hour:	\$19.81	100
Operator Cost/Hour:	\$37.79	NA
Total Unit Cost/Hour:	\$78.70	
Total Fleet Cost/Hour:	\$78.70	

MATERIAL QUANTITIES

Initial volume: 10,933

CCY

Swell factor: 1.124

Loose volume: 12,284

LCY

Source of estimated volume: ECA TR-5 adeq response

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: ABOVE AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.210 minutes

Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 0.68 LCY (heaped)

Bucket Fill Factor: 1.050 Other - moist loam (100-110%) 1.050

Adjusted Capacity: 0.71 LCY

Job Condition Correction Factors

Site Altitude: 3400 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production: 204.00 LCY/Hour

Adjusted Hourly Unit Production: 169.32 LCY/Hour

Adjusted Hourly Fleet Production: 169.32 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 72.55 Hours

Unit cost: \$0.465 /LCY Total job cost: \$5,710

BULLDOZER WORKTask description: Grade shorelines created by dike breach to 6H:1VSite: Midwestern FarmsPermit Action: TR-05 rev 3-9-2017Permit/Job#: M1993059**PROJECT IDENTIFICATION**Task #: 008State: ColoradoAbbreviation: NoneDate: 3/9/2017County: ProwersFilename: M059-008User: AMEAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: \$191.83Total Fleet Cost/Hour: \$383.65**MATERIAL QUANTITIES**Initial Volume: 3,552Swell factor: 1.270Loose volume: 4,511 LCYSource of estimated volume: ECA TR-5 adeq response, 2(143) ft L x 13 ft HSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -10 %Average site altitude: 3,400 feetMaterial weight: 2,700 lbs/LCYWeight description: Earth - Wet excavated**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)

Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8420

Adjusted unit production: 1,178.80 LCY/hr

Adjusted fleet production: **2357.6** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.163/LCY

Total job time: **1.91** Hours

Total job cost: **\$734**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization/Demobilization of equipment**Site: **Midwestern Farms**Permit Action: **TR-05 rev 3-9-2017**Permit/Job#: **M1993059****PROJECT IDENTIFICATION**

Task #: **009** State: **Colorado** Abbreviation: **None**
 Date: **3/9/2017** County: **Prowers** Filename: **M059-009**
 User: **AME**

Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**

Shift basis: **1 per day**
 Cost Data Source: **CRG Data**

Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **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 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 - 8SU	53.08	\$63.00	\$125.45	4	\$753.82	\$501.80	\$500.00
Cat 637G	57.28	\$139.29	\$125.45	2	\$529.48	\$250.90	\$500.00
CAT 14M	23.57	\$41.37	\$88.67	1	\$130.04	\$88.67	\$250.00
Cat 312D L 9'-2" Stick	14.83	\$21.86	\$88.67	1	\$110.53	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00

Subtotals: **\$1,643.19** **\$1,018.71** **\$1,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$68.08	1	\$68.08	\$68.08

Subtotals: **\$68.08** **\$68.08**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>LAMAR</u>	
Total one-way travel distance:	<u>24.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$32,114.15</u>
-------------------------------------	--------------------

 ** two round trips with haul rig:

Total Roadable Mob/Demob Cost **	<u>\$59.42</u>
----------------------------------	----------------

 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.44</u>	<u>0.44</u>
Return Time (Hours):	<u>0.44</u>	<u>0.44</u>
Loading Time (Hours):	<u>4.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>4.00</u>	<u>NA</u>
Subtotals:	<u>8.87</u>	<u>0.87</u>

JOB TIME AND COST

Total job time:	<u>17.75</u>	Hours
-----------------	--------------	-------

Total job cost:	<u>CTJC</u>
-----------------	-------------



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR FULL OR PARTIAL RELEASE OF PERMIT AREA/SURETY REDUCTION

Please indicate if you are requesting:

FULL/FINAL RELEASE OF ENTIRE PERMITTED AREA (per Rule 4.17) _____

ACREAGE REDUCTION (PARTIAL RELEASE per Rule 4.17) _____

I wish to release _____ acres at this time.

You will need to submit with this request: a map showing the acreage to be released from the current permit and updated mining and reclamation plan maps that will accurately depict the new permit boundary if the release is approved.

SURETY (Bond) REDUCTION (per Rule 4.14) _____

If you are requesting a surety (bond) reduction you will need to include with this request a new estimate of the actual cost to reclaim the site based on what it would cost an independent contractor to complete reclamation, including unit costs for reclamation activities as appropriate to the operation to comply with the provisions of Rule 3.1 and the Permit's approved Reclamation Plan.

File No.: M- _____ Site Name: _____

County: _____

Permittee: _____

Permittee Address: _____

Operator (If Other than Permittee): _____

Permittee Representative: _____

Certified Mail# _____

In accordance with Rule 4.17.1(2) the Operator shall include the names, addresses and phone numbers of all owners of record to the affected land. Please attach additional sheets for this information if required.

Continue on following page..

In accordance with Rule 4.17.1(4), if requesting a full or partial acreage release the Operator or their agent MUST sign that they have complied with the following statement: “All applicable portions of the Reclamation Plan requirements have been satisfied in accordance with these Rules and all applicable requirements under the Act.”

Signature of Permittee, Operator or their authorized agent

Date

Important: In accordance with Rules 4.14.2(a) and 4.17.1(3) This release request must be submitted to the Division via certified mail and separate from any other correspondence to the Division.