



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

February 29, 2024

Judy DeVincentis
Western Gravel, Inc.
3001 N. Townsend Ave.
Montrose, CO 81401

Re: North R-34 Pit - File No. M-1996-008
Western Gravel, Inc.
Surety Increase (SI-3)

Dear Judy DeVincentis:

On February 29, 2024 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$31,587.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$8,207.00.**

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter (February 29, 2024).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after April 29, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$23,380.00
Prior Liability:	\$23,380.00
Change in Liability:	\$8,207.00
Revised Liability:	\$31,587.00
Prior Permit Acreage:	37.40
Change in Permit Acreage:	0.00



Revised Permit Acreage:	37.40
Prior Affected Acreage:	32.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	32.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8188, or by email at Dustin.czapla@state.co.us.

Sincerely,



Dustin M. Czapla
Environmental Protection Specialist

COST SUMMARY WORK

Task description: _____

Site: North R-34 Pit

Permit Action: 2024-02-12 Review

Permit/Job#: M1996008

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/12/2024

County: Montrose

Filename: M008-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Dewater pit	PUMPING	1	28.18	\$1,731
02a	Finish grade pit slopes	DOZER	1	2.66	\$1,135
03a	Grade pad/stockpile areas and NW Phase 1 disturbance	DOZER	1	6.39	\$2,726
04a	Haul topsoil from stockpiles	SCRAPER1	1	4.63	\$2,204
05a	Grade topsoil	DOZER	1	2.57	\$1,096
06a	Seed wetland fringe area	REVEGE	1	1.50	\$1,377
06b	Seed rangeland area	REVEGE	1	6.00	\$9,385
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.66	\$5,348
<u>SUBTOTALS:</u>				54.59	\$25,002

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 27.86
Profit: 10.00

Total = \$505

Total = \$263

Total = \$1,813

Total = \$2,500

TOTAL O & P = \$5,081

CONTRACT AMOUNT (direct + O & P) = \$30,083

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = \$0

Total = \$0

\$1,504

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$6,585

TOTAL BOND AMOUNT (direct + indirect) = \$31,587

PUMPING WORK

Task description: Dewater pit

Site: North R-34 Pit

Permit Action: 2024-02-12 Review

Permit/Job#: M1996008

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 2/12/2024

County: Montrose

Filename: 9600801a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Centrifugal pump - 125M, 8 in.	1
Attachment 1:		0
Attachment 2:		0
Labor Unit 1:	Pump operator	1
Horsepower:	<u>70</u>	
Shift Basis:	<u>1 per day</u>	
Weight:	<u>1.50</u>	
	(US Tons)	

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$13.46</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$20.26</u>	<u>100</u>
Operator Cost/Hour:	<u>\$27.68</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$61.40</u>	
Total Fleet Cost/Hour:	<u>\$61.40</u>	

PUMPING QUANTITIES

Initial Pond Volume:	<u>12.50</u>		Conversion factor:	<u>325850.5800</u>
Final Pond Volume:	<u>4,073,132.25</u>	gallons		
Total Pond Inflow Surface Area:	<u>4,250</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.:	<u>0.3516</u>
Total Pond Inflow Volume per Hour:	<u>1,494.30</u>	gallons		

Source of estimated volume: Lower 2.5 ac by 5'

PUMPING TIME

Maximum Pump Capacity:	<u>125,000</u>	gph/pump
Estimated Suction Head:	<u>10</u>	feet
Estimated Discharge Head:	<u>10</u>	feet
Total Head:	<u>20</u>	feet
CPB Pump Capacity:	<u>126,000</u>	gph/pump
Site Altitude:	<u>5,675</u>	feet
Adjusted Pumping Capacity:	<u>126,000</u>	gph
Initial Unadjusted Pumping Time:	<u>32.33</u>	hours
Inflow during Initial Pumping:	<u>48,305</u>	gallons
Net Unadjusted Pumping Time:	<u>32.71</u>	Hours
Altitude Adjustment Factor:	<u>0.9400</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>28.19</u>	hours

JOB TIME AND COST

Total job time: 28.19 Hours

Unit cost: \$0.000420 /Gallon

Total job cost: \$1,731

BULLDOZER WORKTask description: **Finish grade pit slopes**Site: **North R-34 Pit**Permit Action: **2024-02-12 Review**Permit/Job#: **M1996008****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **2/12/2024**County: **Montrose**Filename: **9600802a**User: **DMC**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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **1,354**Swell factor: **1.000**Loose volume: **1,354 LCY**Source of estimated volume: **Current conditions**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: **0 %**Average site altitude: **5,675 feet**Material weight: **3,400 lbs/LCY**Weight description: **Sand and gravel - Wet****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.676	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3636

Adjusted unit production: 509.04 LCY/hr

Adjusted fleet production: **509.04** LCY/hr

JOB TIME AND COST



Fleet size: 1 Dozer(s)

Unit cost: \$0.838/LCY

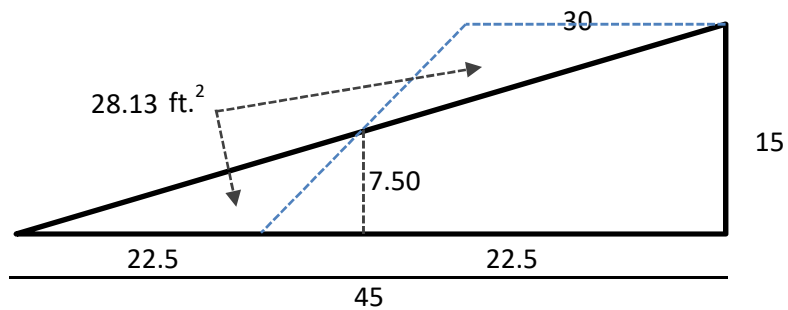
Total job time: **2.66** Hours

Total job cost: **\$1,135**

Highwall reduction - cut and fill

Highwall Height (ft.)	15.0
Length of Highwall (lft.)	1300
 Initial Slope	2.0 H:1V
 Desired Slope	3 H:1V
Volume of material to be moved (ft. ³)	36,563
Volume of material to be moved (yd. ³)	1,354

All dimensions measured in feet
Drawing not to scale



BULLDOZER WORKTask description: Grade pad/stockpile areas and NW Phase 1 disturbanceSite: North R-34 PitPermit Action: 2024-02-12 ReviewPermit/Job#: M1996008**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 2/12/2024County: MontroseFilename: 9600803aUser: DMCAgency 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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 1,936Swell factor: 1.000Loose volume: **1,936 LCY**Source of estimated volume: 1.2 ac x 12" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 5,675 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 303.01 LCY/hr

Adjusted fleet production: **303.01** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.408/LCY

Total job time: **6.39** Hours

Total job cost: **\$2,726**

SCRAPER TEAM WORKTask description: **Haul topsoil from stockpiles**Site: **North R-34 Pit**Permit Action: **2024-02-12 Review**Permit/Job#: **M1996008****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **2/12/2024**County: **Montrose**Filename: **9600804a**User: **DMC**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$252.73	NA	NA	NA	NA	NA
Operating cost/hour:	\$192.59	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$476.22	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work: \$476.22		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$476.22****MATERIAL QUANTITIES**Initial volume: **1,882**

CCY

Swell factor: **1.000**Loose volume: **1,882**

LCY

Source of estimated volume: **Approx. 2 ac x 7"**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	1,600 lbs/LCY	Struck Volume:	18.00	LCY
Material description:	Top Soil	Heaped Volume:	23.00	LCY
Rated Payload:	55,200 pounds	Average Volume:	20.50	LCY
Payload Capacity:	34.50 LCY	Adjusted Capacity:	20.50	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5675 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, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1292	0.46

Haul Time: 0.46 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2359	0.45

Return Time: 0.45 minutesTotal Scraper team cycle time: 2.51 minutesAdjusted for job conditions: 406.73 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 406.73 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 406.73 LCY/HourUnadjusted unit production/hour: 490.04 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 4.63 HoursUnit cost: \$1.171 /LCYTotal job cost: \$2,204

BULLDOZER WORKTask description: Grade topsoilSite: North R-34 PitPermit Action: 2024-02-12 ReviewPermit/Job#: M1996008**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/12/2024County: MontroseFilename: 9600805aUser: DMCAgency 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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 1,882Swell factor: 1.000Loose volume: **1,882** LCYSource of estimated volume: Scraper taskSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 5,675 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 732.64 LCY/hr

Adjusted fleet production: **732.64** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.582/LCY

Total job time: **2.57** Hours

Total job cost: **\$1,096**

REVEGETATION WORKTask description: Seed wetland fringe area

Permit Action: 2024-02-12 Review

Site: North R-34 PitPermit/Job#: M1996008**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 2/12/2024County: MontroseFilename: 9600806aUser: DMCAgency 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
Chisel plowing {DMG}	\$100.40
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$439.20

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Aquatic Sedge	1.20	31.74	\$210.00
Slender Wheatgrass - Native	3.00	10.95	\$13.88
Red Top	1.00	114.55	\$7.88
Reedgrass, Canadian (or Blue Joint)	0.50	51.42	\$101.63
Reedgrass, Northern - Native	0.50	51.42	\$68.33
Timothy, Alpine - Native	2.00	59.69	\$48.50

Totals Seed Mix	8.20	319.78	\$450.20
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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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Total Mulch Application Cost/Acre	\$222.13

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:	0.5	Cost /Acre:	\$2,203.10
Estimated Failure Rate:	25%	Cost /Acre*:	\$2,203.10
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$1,101.55		
Reseeding Job Cost:	\$275.39		
Total Job Cost:	\$1,377		
Job Hours:	1.50		

REVEGETATION WORKTask description: Seed rangeland area

Permit Action: 2024-02-12 Review

Site: North R-34 PitPermit/Job#: M1996008**PROJECT IDENTIFICATION**

Task #: 06B State: Colorado Abbreviation: None
 Date: 2/12/2024 County: Montrose Filename: 9600806b
 User: DMC

Agency 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
Chisel plowing {DMG}	\$100.40
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$439.20

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.80	9.06	\$31.15
Canby Bluegrass - Canbar	0.90	19.13	\$9.23
Sand Dropseed	0.10	11.94	\$0.98
Galleta	0.80	2.92	\$17.88
Muttongrass	0.10	2.07	\$3.44
Western Wheatgrass - Arriba	5.60	14.14	\$36.40
Saltbush, Four Wing	2.00	2.75	\$25.00

Totals Seed Mix	12.30	62.02	\$124.07
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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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Total Mulch Application Cost/Acre	\$222.13

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: 4 Cost /Acre: \$1,876.97
 Estimated Failure Rate: 25% Cost /Acre*: \$1,876.97
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$7,507.88**
 Reseeding Job Cost: **\$1,876.97**
 Total Job Cost: **\$9,385**
 Job Hours: **6.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew and equipment**Site: **North R-34 Pit**Permit Action: **2024-02-12 Review**Permit/Job#: **M1996008****PROJECT IDENTIFICATION**

Task #: **07A** State: **Colorado** Abbreviation: **None**
 Date: **2/12/2024** County: **Montrose** Filename: **9600807a**
 User: **DMC**

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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Cat 623G	41.35	\$252.73	\$158.17	1	\$410.90	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
Centrifugal pump - 125M, 8 in.	1.50	\$13.46	\$82.29	1	\$95.75	\$82.29	\$250.00

Subtotals: **\$1,135.34** **\$580.99** **\$1,250.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: MONTROSE
 Total one-way travel distance: 5.00 miles
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$5,342.79
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$5.28
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.17</u>	<u>0.17</u>
Return Time (Hours):	<u>0.17</u>	<u>0.17</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.33</u>	<u>0.33</u>

JOB TIME AND COST

Total job time: 2.67 Hours

Total job cost: \$5,348