



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman St. Room 215
Denver, CO 80203

April 12, 2017

Mr. Jason Burkey
Oldcastle SW Group, Inc. dba United Companies of Mesa County
P.O. Box 3609
Grand Junction, CO 81502-3609

Re: Berry Pit, Permit No. M-1977-132, Financial Warranty Increase, Revision No. SI-6

Dear Mr. Burkey:

On April 12, 2017 the Division of Reclamation, Mining and Safety increased the required Financial Warranty for this permit to \$186,149.53, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$35,052.05 over the currently held \$151,097.48.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me at (970) 241-2042.

Sincerely,

Travis H. Marshall
Environmental Protection Specialist

Enclosure: Updated Reclamation Cost Estimate

cc: Barbara J. Coria, DRMS

M-FW-14



COST SUMMARY WORK

Task description: _____

Site: Berry Pit

Permit Action: SI-06

Permit/Job#: M1977132

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 4/12/2017

County: Rio Blanco

Filename: M132-001

User: THM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade two new lease area strips to final grade	DOZER	1	61.75	\$11,845.00
02a	Replace overburden over 4.1 acres at 1' depth	SCRAPER1	1	5.84	\$8,421.00
03a	Replace topsoil from stockpile C on regraded strip	SCRAPER1	1	9.27	\$13,825.00
04a	Regrade old lease area	DOZER	1	24.66	\$5,095.00
05a	Regrade protection berm topsoil	DOZER	1	27.12	\$5,603.00
06a	Regrade protection berm topsoil	DOZER	1	27.12	\$5,603.00
07a	Revegetation	REVEGE	1	40.00	\$80,113.00
08a	Mobilization	MOBILIZE	1	10.24	\$15,522.00
<u>SUBTOTALS:</u>				206	\$146,027

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 103.00
Profit: 10.00

Total = \$2,949.75

Total = \$1,533.28

Total = \$7,524.15

Total = \$14,602.70

TOTAL O & P = \$26,609.88

CONTRACT AMOUNT (direct + O & P) = \$172,636.88

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

\$8,631.84

CONTINGENCY: 3.00

Total = \$4,380.81

TOTAL INDIRECT COST = \$40,122.53

TOTAL BOND AMOUNT (direct + indirect) = \$186,149.53

BULLDOZER WORKTask description: Regrade two new lease area strips to final gradeSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 4/12/2017County: Rio BlancoFilename: M132-01aUser: THMAgency 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:	<u>\$83.81</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$66.17</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.85</u>	<u>NA</u>

Total unit Cost/Hour: \$191.83Total Fleet Cost/Hour: \$191.83**MATERIAL QUANTITIES**Initial Volume: 16,500Swell factor: 1.090Loose volume: 17,985 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 634.3 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,350 feetMaterial weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.100</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4592

Adjusted unit production: 291.27 LCY/hr
Adjusted fleet production: 291.27 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.659/LCY

Total job time: 61.75 Hours
Total job cost: \$11,845

SCRAPER TEAM WORKTask description: Replace overburden over 4.1 acres at 1' depthSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 4/12/2017County: Rio BlancoFilename: M132-02aUser: THMAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 7,000 Gal.

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	50	100	50
Ownership cost/hour:	\$152.84	\$83.81	\$83.81	\$83.81	\$54.68	\$38.58
Operating cost/hour:	\$158.39	\$66.17	\$66.17	\$33.09	\$46.99	\$30.56
%Utilization-ripper:	NA	NA	100	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$7.55	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$7.21	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$31.26	\$41.85	\$41.85	\$41.85	\$28.90	\$0.00
Unit Subtotals:	\$342.49	\$191.83	\$206.59	\$158.74	\$130.57	\$69.14
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work: \$876.81		Support: \$365.33		Maint: \$199.71	

Total work team cost/hour: \$1,441.85**MATERIAL QUANTITIES**Initial volume: 6,614

CCY

Swell factor: 1.090Loose volume: 7,209

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,400 lbs/LCY
 Material description: Clay and gravel - Dry
 Rated Payload: 81,600 pounds
 Payload Capacity: 34.00 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: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6350 feet

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

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	1.50	3.00	4.50	2394	0.45

Haul Time: 0.45 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-1.50	3.00	1.50	2960	0.29

Return Time: 0.29 minutesTotal Scraper team cycle time: 2.34 minutesAdjusted for job conditions: 1,234.36 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,234.36 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,234.36 LCY/HourUnadjusted unit production/hour: 1,487.18 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 5.84 HoursUnit cost: \$1.168 /LCYTotal job cost: \$8,421

SCRAPER TEAM WORKTask description: **Replace topsoil from stockpile C on regraded strip**Site: **Berry Pit** Permit Action: **SI-06** Permit/Job#: **M1977132****PROJECT IDENTIFICATION**

Task #: **03A** State: **Colorado** Abbreviation: **None**
 Date: **4/12/2017** County: **Rio Blanco** Filename: **03a**
 User: **THM**

Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

	Equipment Description
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 7,000 Gal.

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

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	100	100
Ownership cost/hour:	\$152.84	\$83.81	\$83.81	\$83.81	\$54.68	\$38.58
Operating cost/hour:	\$158.39	\$66.17	\$66.17	\$66.17	\$46.99	\$61.11
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$31.26	\$41.85	\$41.85	\$41.85	\$28.90	\$0.00
Unit Subtotals:	\$342.49	\$191.83	\$191.83	\$191.83	\$130.57	\$99.69
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work: \$876.81	Support: \$383.66	Maint: \$230.26			

Total work team cost/hour: **\$1,490.73****MATERIAL QUANTITIES**

Initial volume: **9,921** CCY Swell factor: **1.000**
 Loose volume: **9,921** LCY

Source of estimated volume: **Division of Reclamation, Mining & Safety**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight: **1,600 lbs/LCY** Struck Volume: **24.00** LCY
 Material description: **Top Soil** Heaped Volume: **34.00** LCY
 Rated Payload: **81,600 pounds** Average Volume: **29.00** LCY
 Payload Capacity: **51.00 LCY** Adjusted Capacity: **29.00** LCY

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6350 feet

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

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1100.00	-5.00	3.00	-2.00	2972	0.44

Haul Time: 0.44 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1100.00	5.00	3.00	8.00	1931	0.66

Return Time: 0.66 minutesTotal Scraper team cycle time: 2.70 minutesAdjusted for job conditions: 1,069.78 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,069.78 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,069.78 LCY/HourUnadjusted unit production/hour: 1,288.89 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 9.27 HoursUnit cost: \$1.393 /LCY Total job cost: \$13,825

BULLDOZER WORKTask description: Regrade old lease areaSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 4/6/2017County: Rio BlancoFilename: 04aUser: THMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift 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:	\$7.55	NA
Ripper op. Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: \$206.59Total Fleet Cost/Hour: \$206.59**MATERIAL QUANTITIES**Initial Volume: 8,000Swell factor: 1.090Loose volume: 8,720 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 5 %Average site altitude: 6,350 feetMaterial weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4147

Adjusted unit production: 353.57 LCY/hr

Adjusted fleet production: 353.57 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.584/LCY

Total job time: 24.66 Hours

Total job cost: \$5,095

BULLDOZER WORKTask description: Regrade protection berm topsoilSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 4/6/2017County: Rio BlancoFilename: M132-05aUser: THMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift 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:	\$7.55	NA
Ripper op. Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: \$206.59Total Fleet Cost/Hour: \$206.59**MATERIAL QUANTITIES**Initial Volume: 6,400Swell factor: 1.135Loose volume: 7,264 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 115 feetUnadjusted hourly production: 776.8 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 5 %Average site altitude: 6,350 feetMaterial weight: 2,700 lbs/LCYWeight description: Sand and clay - Loose**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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3448

Adjusted unit production: 267.84 LCY/hr

Adjusted fleet production: 267.84 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.771/LCY

Total job time: 27.12 Hours

Total job cost: \$5,603

BULLDOZER WORKTask description: Regrade protection berm topsoilSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 4/6/2017County: Rio BlancoFilename: 06aUser: THMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift 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:	\$7.55	NA
Ripper op. Cost/Hour:	\$7.21	100
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: \$206.59Total Fleet Cost/Hour: \$206.59**MATERIAL QUANTITIES**Initial Volume: 6,400Swell factor: 1.135Loose volume: 7,264 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 115 feetUnadjusted hourly production: 776.8 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 5 %Average site altitude: 6,350 feetMaterial weight: 2,700 lbs/LCYWeight description: Sand and clay - Loose**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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3448

Adjusted unit production: 267.84 LCY/hr

Adjusted fleet production: 267.84 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.771/LCY

Total job time: 27.12 Hours

Total job cost: \$5,603

REVEGETATION WORKTask description: RevegetationSite: Berry PitPermit Action: SI-06Permit/Job#: M1977132**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 4/12/2017County: Rio BlancoFilename: 07aUser: THMAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.34	\$68.00
			Total Fertilizer Materials Cost/Acre	\$68.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$144.62
Total Fertilizer Application Cost/Acre	\$144.62

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
Indian Ricegrass - Nespar	2.50	8.09	\$19.38
Beardless Wheatgrass - Whitmar	2.40	7.82	\$20.40
Russian Wildrye - Vinal	2.00	8.03	\$12.06
Streambank Wheatgrass - Sodar	2.20	7.17	\$13.40
Western Wheatgrass - Arriba	3.20	8.08	\$25.86
Sagebrush, Mountain or Big	1.00	52.80	\$19.75
Totals Seed Mix	13.30	92.00	\$110.84

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$522.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Power mulcher (MEANS 32 91 13.16 0350)	\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$236.84

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:	44.8	Cost /Acre:	\$1,430.59
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,430.59
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		

Initial Job Cost:	\$64,090.43
Reseeding Job Cost:	\$16,022.61
Total Job Cost:	\$80,113
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization**Site: **Berry Pit**Permit Action: **SI-06**Permit/Job#: **M1977132****PROJECT IDENTIFICATION**Task #: **08A**State: **Colorado**Abbreviation: **None**Date: **4/12/2017**County: **Rio Blanco**Filename: **08a**User: **THM**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 D8R Series II - 8SU (2005)	52.55	\$45.97	\$125.45	2	\$342.83	\$250.90	\$500.00
Cat 637G w/push-pull	59.08	\$91.74	\$125.45	2	\$434.37	\$250.90	\$500.00
CAT 143H	16.56	\$27.56	\$88.67	1	\$116.23	\$88.67	\$250.00
Water Tanker, 7,000 Gal.	29.65	\$35.00	\$117.55	1	\$152.55	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$1,269.94** **\$885.36** **\$2,000.00****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.	\$12.41	2	\$24.82	\$24.82

Subtotals: **\$24.82** **\$24.82**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>103.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$15,419.72</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$102.26</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	2.06	2.06
Return Time (Hours):	2.06	2.06
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	5.12	4.12

JOB TIME AND COST

Total job time:	<u>10.24</u>	Hours
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Total job cost:	<u>\$15,522</u>
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