



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

July 6, 2017

Mr. William Tezak
Super Ex., LLC
270 S 15th Street
Canyon City, CO

RE: Mesita Hill Pit, Permit No. M-1977-277, Reclamation Costs Update and Notice of Surety Increase (SI-3)

Dear Mr. Tezak:

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 Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). ***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, September 04, 2017**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$69,493.00. This is an increase of \$2,031.00 over the \$67,462.00 currently held by the Division. This estimate is based on conditions observed during the October 6, 2016 inspection as well as the recently approved Technical Revision, TR-3.

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, have questions or concerns, please feel free to contact me at the DRMS Grand Junction Field Office.

Sincerely,

Lucas West

Environmental Protection Specialist
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203
Phone: (970) 243-6368

Cc: Russ Means, Senior Environmental Protection Specialist
Barbara Coria, DRMS Bonding Specialist



COST SUMMARY WORK

Task description: _____

Site: Mesita Hill Pit

Permit Action: 2017 Update

Permit/Job#: M1977227

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/6/2017

County: Costilla

Filename: M227-000

User: LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Load and Carry overburden to next phase	TRUCK1	1	65.92	\$13,967.00
002	Spread overburden at next phase	DOZER	1	28.96	\$5,150.00
003	Load and Carry "topsoil" to next phase	TRUCK1	1	65.92	\$13,967.00
004	Spread "topsoil" at next phase	DOZER	1	28.96	\$5,150.00
005	demolish concrete structures, bury onsite	DEMOLISH	1	0.00	\$1,135.71
006	Revegetation costs	REVEGE	1	16.00	\$10,377.00
007	Mob/ Demob	MOBILIZE	1	8.66	\$4,345.00
<u>SUBTOTALS:</u>				214.42	\$54,092

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,092.66

Performance bond: 1.05

Total = \$567.97

Job superintendent: 107.21

Total = \$7,831.69

Profit: 10.00

Total = \$5,409.20

TOTAL O & P = \$14,901.52

CONTRACT AMOUNT (direct + O & P) = \$68,993.52

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: 0.00

\$0.00

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$15,401.52

TOTAL BOND AMOUNT (direct + indirect) = \$69,493.52

TRUCK/LOADER TEAM WORKTask description: Load and Carry overburden to next phaseSite: Mesita Hill PitPermit Action: 2017 UpdatePermit/Job#: M1977227**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 7/6/2017County: CostillaFilename: M227-001User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Generic 10-12 cy, 6x4
-Loader:	CAT 950H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

<u>Cost Breakdown:</u>	<u>Truck/Loader Team</u>		<u>Support Equipment</u>		<u>Maintenance Equipment</u>	
	<u>Truck</u>	<u>Loader</u>	<u>Load Area</u>	<u>Dump Area</u>	<u>Motor Grader</u>	<u>Water Truck</u>
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$18.29	\$25.38	NA	NA	NA	NA
Operating cost/hour:	\$39.97	\$28.79	NA	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$41.20	NA	NA	NA	NA
Unit Subtotals:	\$58.26	\$95.37	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work: \$211.89		Support: \$0.00		Maint: \$0.00	

Total work team cost/hour: \$211.89**MATERIAL QUANTITIES**Initial volume: 24,200

CCY

Swell factor: 1.125Loose volume: 27,225

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: 2,550

Pounds/LCY

Description: Earth - Dry packedRated Payload: 35,400

Pounds

Payload Capacity: 13.88 LCY**Truck Bed (volume) Basis:**

Struck Volume: 10.00 LCY
 Heaped Volume: 12.00 LCY
 Average Volume: 11.00 LCY
 Adjusted Volume: 12.00 LCY

Final Truck Volume Based on Number of Loader Passes: 9.46 LCY**Loading Tool Capacity**Bucket Size Class: NA

Rated Capacity: 4.300 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 4.730 LCY

Job Condition Corrections:Site Altitude (ft.): 7750 feet

	Truck	Loader	Source
Altitude Adj:	0.970	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.805	0.830	

Loading Tool Cycle Time:Number of Loading Tool Passes Required to Fill
Truck: 2 passes**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):Load: NA Maneuver: NA Dump: 0.100Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		<u>-0.060</u>	minutes
Adjusted Loader Cycle Time:		<u>0.440</u>	minutes
Net Load Time per Truck:		<u>0.540</u>	minutes

Truck Cycle Time:

Truck Exchange Time: 0.50 Minutes Adjusted for site altitude: 0.515 Minutes
 Truck Load Time: 0.540 Minutes Adjusted for site altitude: 0.540 Minutes
 Truck Maneuver and Dump Time: 0.90 Minutes Adjusted for site altitude: 0.928 Minutes

Truck Travel (Haul & Return) Time:
penetration 4.0

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	240.00	0.00	4.00	4.00	2665	0.188

Haul Time: 0.188 minutes**Return Route:**

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	240.00	0.00	4.00	4.00	2849	0.110

Return Time: 0.110 minutesTotal Truck Cycle Time: 2.281 minutes

Loading Tool unit Production 537.77 LCY/Hour
 Truck Unit Production 248.81 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s)

Adjusted for job efficiency: 446.35 LCY/Hour
 Adjusted for job efficiency: 206.51 LCY/Hour
 Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 413.02 LCY/Hour
 Adjusted single truck/loader team production: 413.02 LCY/Hour
 Adjusted multiple truck/loader team production: 413.02 LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 65.92 HoursUnit cost: \$0.513 /LCY Total job cost: \$13,967

BULLDOZER WORKTask description: Spread overburden at next phaseSite: Mesita Hill PitPermit Action: 2017 UpdatePermit/Job#: M1977227**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 7/6/2017County: CostillaFilename: M227-002User: LJWAgency 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:	\$100.59	NA
Operating Cost/Hour:	\$87.23	100
Ripper own. Cost/Hour:	\$10.94	NA
Ripper op. Cost/Hour:	\$6.82	100
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$247.43	
Total Fleet Cost/Hour:	\$247.43	

MATERIAL QUANTITIESInitial Volume: 24,200Swell factor: 1.115Loose volume: 26,983 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly
production: 2,110.5 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push
gradient: 0 %Average site altitude: 7,750 feetMaterial weight: 2,100 lbs/LCYWeight description: Earth - LoamJob Condition Correction FactorSource

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5726

Adjusted unit
production: 1,208.47 LCY/hr
Adjusted fleet
production: **1208.47 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.205/LCY

Total job time: **22.33 Hours**
Total job cost: **\$5,525**

TRUCK/LOADER TEAM WORKTask description: Load and Carry "topsoil" to next phaseSite: Mesita Hill PitPermit Action: 2017 UpdatePermit/Job#: M1977227**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 7/6/2017County: CostillaFilename: M227-003User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Generic 10-12 cy, 6x4
-Loader:	CAT 950H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	NA
Ownership cost/hour:	\$18.29	\$25.38	NA	NA	NA	NA
Operating cost/hour:	\$39.97	\$28.79	NA	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$41.20	NA	NA	NA	NA
Unit Subtotals:	\$58.26	\$95.37	NA	NA	NA	NA
Number of Units:	2	1	0	0	0	0
Group Subtotals:	Work: \$211.89		Support: \$0.00		Maint: \$0.00	

Total work team cost/hour: \$211.89**MATERIAL QUANTITIES**Initial volume: 24,200

CCY

Swell factor: 1.125Loose volume: 27,225

LCY

Source of estimated volume:

Division of Reclamation, Mining & Safety

Source of estimated swell factor:

Cat Handbook

Material Purchase Cost:

\$0.00

Total Cost:

\$0.00**HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: 2,550

Pounds/LCY

Description: Earth - Dry packedRated Payload: 35,400

Pounds

Payload Capacity: 13.88 LCY**Truck Bed (volume) Basis:**

Struck Volume:	<u>10.00</u>	LCY
Heaped Volume:	<u>12.00</u>	LCY
Average Volume:	<u>11.00</u>	LCY
Adjusted Volume:	<u>12.00</u>	LCY

Final Truck Volume Based on Number of Loader Passes: 9.46 LCY**Loading Tool Capacity**Bucket Size Class: NA

Rated Capacity:	<u>4.300</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.100</u>	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	<u>4.730</u>	LCY

Job Condition Corrections:Site Altitude (ft.): 7750 feet

	Truck	Loader	Source
Altitude Adj:	0.970	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.805	0.830	

Loading Tool Cycle Time:Number of Loading Tool Passes Required to Fill
Truck: 2 passes**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):Load: NA Maneuver: NA Dump: 0.100Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.060	minutes
Adjusted Loader Cycle Time:		0.440	minutes
Net Load Time per Truck:		0.540	minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.50</u>	Minutes	Adjusted for site altitude:	<u>0.515</u>	Minutes
Truck Load Time:	<u>0.540</u>	Minutes	Adjusted for site altitude:	<u>0.540</u>	Minutes
Truck Maneuver and Dump Time:	<u>0.90</u>	Minutes	Adjusted for site altitude:	<u>0.928</u>	Minutes

Truck Travel (Haul & Return) Time:
penetration 4.0

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	240.00	0.00	4.00	4.00	2665	0.188

Haul Time: **0.188** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	240.00	0.00	4.00	4.00	2849	0.110

Return Time: **0.110** minutesTotal Truck Cycle Time: **2.281** minutes

Loading Tool unit Production 537.77 LCY/Hour Adjusted for job efficiency: 446.35 LCY/Hour
 Truck Unit Production 248.81 LCY/Hour Adjusted for job efficiency: 206.51 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 413.02 LCY/Hour
 Adjusted single truck/loader team production: 413.02 LCY/Hour
 Adjusted multiple truck/loader team production: 413.02 LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **65.92** HoursUnit cost: \$0.513 /LCY Total job cost: **\$13,967**

BULLDOZER WORKTask description: Spread "topsoil" at next phaseSite: Mesita Hill PitPermit Action: 2017 UpdatePermit/Job#: M1977227**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 7/6/2017County: CostillaFilename: M227-004User: LJWAgency 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:	\$100.59	NA
Operating Cost/Hour:	\$87.23	100
Ripper own.		
Cost/Hour:	\$10.94	NA
Ripper op. Cost/Hour:	\$6.82	100
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$247.43	
Total Fleet Cost/Hour:	\$247.43	

MATERIAL QUANTITIESInitial Volume: 24,200Swell factor: 1.115Loose volume: 26,983 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 7,750 feetMaterial weight: 2,100 lbs/LCYWeight description: Earth - Loam**Job Condition Correction Factor****Source**

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5726

Adjusted unit
production: 1,208.47 LCY/hr

Adjusted fleet
production: **1208.47 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.205/LCY

Total job time: 22.33 Hours

Total job cost: **\$5,525**

DEMOLITION WORK

Task description: Demolish concrete structures, bury onsite

Site: Mesita Hill Pit

Permit Action: 2017 Update

Permit/Job#: M1977227

PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 7/6/2017

County: Costilla

Filename: M227-005

User: LJW

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 89.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete slab	30 X 50 X .5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	1,500.00	SF	\$0.60	\$894.00
Break concrete bin walls	80' X 12'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	960.00	SF	\$0.40	\$382.08

Job Hours: 0.00

Subtotal
(unadjusted): \$1,276.08

Total Cost
(adjusted for location): \$1,135.71

REVEGETATION WORKTask description: Revegetation costsSite: Mesita Hill PitPermit Action: 2017 UpdatePermit/Job#: M1977227PROJECT IDENTIFICATIONTask #: 006State: ColoradoAbbreviation: NoneDate: 7/6/2017County: CostillaFilename: M227-006User: LJWAgency or organization name: DRMSFERTILIZING**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
Blue Grama - Native	0.20	3.26	\$2.90
Indian Ricegrass - Native	0.40	1.29	\$2.80
Sand Dropseed	0.50	59.69	\$5.42
Rabbitbrush, Rubber	1.00	14.90	\$64.30
Western Wheatgrass - Native	1.20	3.03	\$8.40
Saltbush, Four Wing	0.80	1.10	\$10.00
Winter Fat	0.20	0.51	\$4.10
Totals Seed Mix	4.30	83.79	\$97.92

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	2.00	ACRE	\$4.16	\$8.32
Total Mulch Materials Cost/Acre				\$8.32

Application

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

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: 15 Cost /Acre: \$553.46
 Estimated Failure Rate: 25% Cost /Acre*: \$553.46
 *Selected Replanting Work Items: SEEDING,MULCHING
 Initial Job Cost: \$8,301.90
 Reseeding Job Cost: \$2,075.48
 Total Job Cost: \$10,377
 Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/ Demob**Site: **Mesita Hill Pit**Permit Action: **2017 Update**Permit/Job#: **M1977227****PROJECT IDENTIFICATION**Task #: **007**State: **Colorado**Abbreviation: **None**Date: **7/6/2017**County: **Costilla**Filename: **M227-007**User: **LJW**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 D9T - 9SU	66.13	\$111.53	\$125.45	1	\$236.98	\$125.45	\$250.00
Cat 319D L 8'-10" Stick	21.50	\$29.01	\$88.67	1	\$117.68	\$88.67	\$250.00

Subtotals: **\$354.66** **\$214.12** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$89.33	2	\$178.66	\$178.66
Drill/Broadcast Seeder with Tractor	\$30.89	1	\$30.89	\$30.89
Light Duty Pickup, 4x4, 3/4 T.	\$12.26	1	\$12.26	\$12.26

Subtotals: **\$221.81** **\$221.81**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	75.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost *	\$3,605.25
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$739.37
'** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.67	1.67
Return Time (Hours):	1.67	1.67
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	4.33	3.33

JOB TIME AND COST

Total job time:	8.67	Hours
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Total job cost:	\$4,345
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