

**STATE OF
COLORADO****Simmons - DNR, Leigh** <leigh.simmons@state.co.us>**M1998024, Hidden Valley Pit, SI-4**

1 message

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

Thu, Sep 1, 2022 at 1:04 PM

To: "Burkey, Jason K (CRH Americas Materials)" <jason.burkey@na.crh.com>

Cc: "Bartuska, Tyra L (United Companies)" <tyra.bartuska@unitedco.com>, Ben Langenfeld <benl@lewicki.biz>, Sara Stevenson-Benn - DNR <sara.stevenson-benn@state.co.us>

Jason,

Please find the notice of Surety Increase no. 4 (SI-4) for the Hidden Valley Pit attached.

Leigh Simmons
Environmental Protection Specialist**COLORADO**
Division of Reclamation,
Mining and Safety
Department of Natural Resources

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106

1313 Sherman Street, Room 215, Denver, CO 80203

leigh.simmons@state.co.us | <https://drms.colorado.gov>

On Wed, Aug 17, 2022 at 8:59 AM Burkey, Jason K (CRH Americas Materials) <jason.burkey@na.crh.com> wrote:

Leigh,

We reviewed your cost estimate and agreed to a Bond Increase based on your calculations. Please send us a Surety Increase Notice so we can process the request.

Thanks,

Jason

From: Simmons - DNR, Leigh <leigh.simmons@state.co.us>**Sent:** Wednesday, August 10, 2022 1:58 PM**To:** Burkey, Jason K (CRH Americas Materials) <jason.burkey@na.crh.com>**Cc:** DNR_DRMSMinAdmin - DNR <dnr_drmsminadmin@state.co.us>**Subject:** [EXT] M1998024, Hidden Valley Pit, June 2022 Inspection Report

Mr. Burkey,

The report of the Division's inspection of the Hidden Valley Pit is attached. Please note that the report **does** require action on your part.

Please contact me with any questions.

Leigh Simmons

Environmental Protection Specialist

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SI4.pdf
1056K



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

September 1, 2022

Jason Burkey
Oldcastle SW Group, Inc. dba B & B Excavating
2273 River Road
Grand Junction, CO 81502-3609

**Re: Hidden Valley Gravel Pit - File No. M-1998-024
Oldcastle SW Group, Inc. dba B & B Excavating
Surety Increase (SI-4)
Surety Increase following June 2022 Inspection**

Dear Jason Burkey:

On September 1, 2022 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$242,064.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$78,426.88.

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 (September 1, 2022).

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 October 31, 2022, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$99,000.00
Prior Liability:	\$163,637.12
Change in Liability:	\$78,426.88
Revised Liability:	\$242,064.00
Prior Permit Acreage:	183.60
Change in Permit Acreage:	0.00



Revised Permit Acreage:	183.60
Prior Affected Acreage:	140.60
Change in Affected Acreage:	0.00
Revised Affected Acreage:	140.60

If you have any questions, please contact me by telephone at (303) 866-3567 x 8121, or by email at Leigh.Simmons@state.co.us.

Sincerely,



Leigh D. Simmons
Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

COST SUMMARY WORK

Task description: _____

Site: Hidden Valley Gravel Pit

Permit Action: 2022 Inspection

Permit/Job#: M1998024

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/9/2022

County: Eagle

Filename: M024-000

User: LDS

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo scale and office building	DEMOLISH	1	40.00	\$2,249
02a	Highwall reduction	DOZER	1	32.44	\$8,558
03a	Rip/grade pit floor and access roads	RIPPER	1	38.10	\$10,830
04a	Distribute topsoil over 30 acre disturbed area	SCRAPER1	1	77.03	\$65,877
05a	Distirbute topsoil over disturbed area	DOZER	1	46.94	\$12,381
06a	Revegetate slopes with dry mix	REVEGE	1	16.00	\$8,271
06b	Revegetate pasture	REVEGE	1	40.00	\$66,811
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	3.60	\$2,969
<u>SUBTOTALS:</u>				294.11	\$177,946

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$3,595
Performance bond:	1.05	Total =	\$1,868
Job superintendent:	147.06	Total =	\$11,048
Profit:	10.00	Total =	\$17,795
		TOTAL O & P =	\$34,306
		CONTRACT AMOUNT (direct + O & P) =	\$212,252

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	8.00	Total =	\$16,980
Reclamation management and/or administration:	5.81		\$12,332

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$64,118

TOTAL BOND AMOUNT (direct + indirect) = \$242,064

DEMOLITION WORK

Task description: Demo scale and office building

Site: Hidden Valley Gravel Pit

Permit Action: 2022 Inspection

Permit/Job#: M1998024

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 8/9/2022

County: Eagle

Filename: M024-01a

User: LDS

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale concrete slabs	15W x 20L x 2'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 50 ft. push	600.00	SF	\$2.26	\$1,356.60
Scale house	40' x 10' x 10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 50 ft. push	4,000.00	CF	\$0.21	\$844.00

Job Hours: 40.00

Subtotal
(unadjusted): \$2,200.60

Total Cost
(adjusted for location): \$2,249.01

BULLDOZER WORKTask description: **Highwall reduction**Site: **Hidden Valley Gravel Pit**Permit Action: **2022 Inspection**Permit/Job#: **M1998024****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **8/9/2022**County: **Eagle**Filename: **024-02a**User: **LDS**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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	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: **\$263.78**Total Fleet Cost/Hour: **\$263.78****MATERIAL QUANTITIES**Initial Volume: **19,097**Swell factor: **1.124**Loose volume: **21,457 LCY**Source of estimated volume: **Onsite observations/cut and fill**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: **-15 %**Average site altitude: **6,350 feet**Material weight: **2,900 lbs/LCY**Weight 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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 661.36 LCY/hr

Adjusted fleet production: **661.36** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.399/LCY

Total job time: **32.44** Hours

Total job cost: **\$8,558**

BULLDOZER RIPPING WORK

Task description: Rip/grade pit floor and access roads

Site: Hidden Valley Gravel Pit

Permit Action: 2022 Inspection

Permit/Job#: M1998024

PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 8/9/2022

County: Eagle

Filename: 024-03a

User: LDS

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU

Horsepower: 310

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper Ownership Cost/Hour:	\$13.10	NA
Ripper Operating Cost/Hour:	\$7.30	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$284.18	
Total Fleet Cost/Hour:	\$284.18	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 26.00 acres Rip Depth (ft): 2.00 Volume: 83,893 BCY or CCY

Source of estimated quantity: Onsite observations / reports

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 500.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.822 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.822 Acres/hr
Site Altitude: 6,350 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier
Adjusted Hourly Unit Production: 0.68 Acres/hr
Adjusted Hourly Fleet Production: **0.68** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **38.11** Hours

Unit cost: \$416.521 Per acre Total job cost: **\$10,830**

SCRAPER TEAM WORKTask description: Distribute topsoil over 30 acre disturbed areaSite: Hidden Valley Gravel PitPermit Action: 2022 InspectionPermit/Job#: M1998024**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 8/9/2022County: EagleFilename: 024-04aUser: LDSAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	Cat D8T - 8SU
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	100	NA	NA	NA	NA
Ownership cost/hour:	\$264.49	\$124.85	NA	NA	NA	NA
Operating cost/hour:	\$296.10	\$97.63	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	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:	\$30.90	\$41.30	NA	NA	NA	NA
Unit Subtotals:	\$591.49	\$263.78	NA	NA	NA	NA
Number of Units:	1	1	0	0	0	0
Group Subtotals:	Work: \$855.27		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$855.27****MATERIAL QUANTITIES**Initial volume: 56,467

CCY

Swell factor: 1.000Loose volume: **56,467**

LCY

Source of estimated volume: 30 ac. @ 14" depthSource 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: 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: 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	350.00	0.00	5.00	5.00	1867	0.28

Haul Time: 0.28 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	0.00	5.00	5.00	2795	0.29

Return Time: 0.29 minutesTotal Scraper team cycle time: 1.97 minutesAdjusted for job conditions: 733.10 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 733.10 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 733.10 LCY/HourUnadjusted unit production/hour: 883.25 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 77.03 HoursUnit cost: \$1.167 /LCYTotal job cost: \$65,877

BULLDOZER WORKTask description: Distirbute topsoil over disturbed areaSite: Hidden Valley Gravel PitPermit Action: 2022 InspectionPermit/Job#: M1998024**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 8/9/2022County: EagleFilename: 024-05aUser: LDSAgency 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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	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: \$263.78Total Fleet Cost/Hour: \$263.78**MATERIAL QUANTITIES**Initial Volume: 56,467Swell factor: 1.000Loose volume: 56,467 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 0 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,350 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: 1,203.02 LCY/hr

Adjusted fleet production: **1203.02** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.219/LCY

Total job time: **46.94** Hours

Total job cost: **\$12,381**

REVEGETATION WORKTask description: Revegetate slopes with dry mixSite: Hidden Valley Gravel PitPermit Action: 2022 InspectionPermit/Job#: M1998024**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 8/9/2022County: EagleFilename: 024-06aUser: LDSAgency 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	\$0.38	\$76.00
			Total Fertilizer Materials Cost/Acre	\$76.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	0.50	0.15	\$9.75
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Orchardgrass - Paiute	1.00	12.40	\$4.08
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Pubescent Wheatgrass - Luna	2.00	4.13	\$6.80
Mahogany, Mountain	0.25	0.34	\$9.20
Western Wheatgrass - Arriba	2.50	6.31	\$16.25
Timothy, Alpine - Native	0.50	14.92	\$12.13
Totals Seed Mix	10.25	51.80	\$71.34

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
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$135.72

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: 4.4 Cost /Acre: \$1,503.79
 Estimated Failure Rate: 25% Cost /Acre*: \$1,503.79
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$6,616.68**
 Reseeding Job Cost: **\$1,654.17**
 Total Job Cost: **\$8,271**
 Job Hours: **16.00**

REVEGETATION WORKTask description: Revegetate pastureSite: Hidden Valley Gravel PitPermit Action: 2022 InspectionPermit/Job#: M1998024**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 8/9/2022County: EagleFilename: 024-06bUser: LDSAgency 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	\$0.38	\$76.00
			Total Fertilizer Materials Cost/Acre	\$76.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Latar	2.00	24.79	\$8.35
Smooth Brome - Manchar	4.00	13.31	\$13.30
Western Wheatgrass - Arriba	6.00	15.15	\$39.00
Timothy - Climax	1.00	28.70	\$1.60
Totals Seed Mix	13.00	81.96	\$62.25

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$484.00

Total Seed Application Cost/Acre	\$484.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$135.72

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: 30.6 Cost /Acre: \$1,746.70
 Estimated Failure Rate: 25% Cost /Acre*: \$1,746.70
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MULCHING

Initial Job Cost: \$53,449.02
 Reseeding Job Cost: \$13,362.26
 Total Job Cost: \$66,811
 Job Hours: 40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew and equipment**Site: **Hidden Valley Gravel Pit**Permit Action: **2022 Inspection**Permit/Job#: **M1998024****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **8/9/2022**County: **Eagle**Filename: **024-07a**User: **LDS**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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

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	47.71	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
Cat 637G	57.28	\$264.49	\$136.92	1	\$401.41	\$136.92	\$250.00

Subtotals: **\$628.08** **\$238.74** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30

Subtotals: **\$24.30** **\$24.30**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: EAGLE
 Total one-way travel distance: 20.00 miles
 Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost * \$2,949.62
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$19.44
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.40	0.40
Return Time (Hours):	0.40	0.40
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.80	0.80

JOB TIME AND COST

Total job time: 3.60 Hours

Total job cost: \$2,969