



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

April 10, 2017

Mr. David Felderhol
1300 - 1959 Upper Water Street
Purdy's Wharf Tower 1
Halifax, Nova Scotia B3J 3N2
Canada

**Re: Dawson Gold Project, DRMS NOI File No. P-2013-002;
Fourth Notice of Deficiencies and Reclamation Liability Estimate
for NOI Modification, Revision No. MD-3**

Dear Mr. Felderhol:

On March 15, 2017 the Division of Reclamation, Mining and (Division) received your response to the third notice of deficiencies (NOD) for your Notice of Intent to Conduct Prospecting Operations (NOI) Modification (MD-03). The responses were adequate. However, the Division requires a commitment, in writing, to reclaim the borrow area for the estimated 312 CY of colluvium road cut reclamation material (clayey gravel) to be excavated from the dry wash area near the Fremont Placer. Please provide a written commitment to reclaim the disturbance (expected by the Division to be between 0.06 and 0.2 acres).

Financial Warranty:

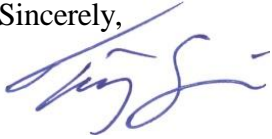
The Division's enclosed cost estimate to reclaim the site is based on the application and your responses to the three previous adequacy reviews. The BLM is copied on this letter for the purpose of obtaining concurrence on the reclamation liability. Please review this bond estimate.

Pursuant to Rule 5.1.3(c), the written commitment to reclaim the clayey gravel borrow area must be submitted within 60 days of this notice or the Division may deny the modification application. **Please be advised the Dawson Gold Project Prospecting Modification Application may be deemed deficient and the application may be denied on June 9, 2017** (60 days from the date of this letter) unless the abovementioned deficiencies are addressed to the satisfaction of the Division.



If you have any questions, please contact me (303-866-3567 ext. 8169).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Tim Cazier', with a stylized flourish at the end.

Timothy A. Cazier, P.E.
Environmental Protection Specialist

Enclosure

ec: David Felderhol, Zephyr Gold USA Ltd
DRMS file
Dr. Angela Bellantoni, EAI
Stephanie Carter, BLM

COST SUMMARY WORK

Task description: Cost Summary

Site: Dawson Gold Project

Permit Action: MD03

Permit/Job#: P2013002

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 4/7/2017

County: Fremont

Filename: P002-000

User: TC1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
010	Drill Hole Sealing/Abandonment from MD-01	NA	20	38.00	\$36,014.00
020	Recontour 3 pads (1,000 sqft ea)	LOADER	1	1.96	\$167.00
04A	Haul 312 CY for Road Stabilization & Mix w/ Cat 324	TRUCK1	1	21.00	\$5,452.00
04C	Recontour 11.5 x 7,400 ft New Road	EXCAVATE	1	106.79	\$12,447.00
050	Reveg 7.8 Acres	REVEGE	1	10.00	\$13,593.00
060	Mob/Demob	MOBILIZE	1	3.56	\$3,861.00
061	"Intra-site" Mob/Demob	MOBILIZE	1	3.00	\$1,712.00
<u>SUBTOTALS:</u>				184.31	\$73,246

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,479.57

Performance bond: 1.05

Total = \$769.08

Job superintendent: 45.57

Total = \$3,328.89

Profit: 10.00

Total = \$7,324.60

TOTAL O & P = \$12,902.14

CONTRACT AMOUNT (direct + O & P) = \$86,148.14

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$4,307.41

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$17,209.55

TOTAL BOND AMOUNT (direct + indirect) = \$90,455.55

BOREHOLE SEALING WORK

Task #: 010 20 Drill Holes (up to 3 Phases of 20 holes ea.)
 Mine: Dawson Gold Project
 Permit no.: P-2013-002
 Permitting action: MD-03 Bond Estimate
 Source of Quantity
 Take-Off: Response to NOD 12/17/15, Unit Cost Update

Date: 12/16/2016
 Prepared by: TC1

Hole	Hole (Casing) diam. (in)	Total depth (ft)	Hole volume (cf)	# Holes	Cwt of bulk cement (assuming 94 lbs of cement per 1.18 cf of hole, that is 100 lbs of cement fills 1.25 cf)	Cement cost per cwt (CIRCES)	Cement total cost	Rig setup time per hole (hr)	Rig time to fill hole (hrs/hole)	Total rig time (setup + fill) per hole (hr)	Rig w/ crew hourly rate (Circes, Reed drill, 9.0")	Total rig cost	2,500 gal water truck w/driver hourly rate (CIRCES)	Water truck w/ driver cost (rig fill time x truck rate)	Octoplug (Circes, \$29.34 per hole)	Cut surface casing & mark (Circes, \$6.04/lf)	% Liab.	Total cost before bond release or increment obligation	Total cost	Total rig time (setup + fill), reduced for liab. %
Uncased Exploration Drill Holes (0 - 400ft)	4	400	35	18	28	\$11.00	\$307	1.50	0.33	1.83	\$291.16	\$534	\$57.55	\$19	\$528	\$435	100%	\$32,811	\$32,811	1.83
Uncased Exploration Drill Holes (0 - 1,000ft)	4	1000	87	2	70	\$11.00	\$768	1.50	0.83	2.33	\$291.16	\$679	\$57.55	\$48	\$59	\$48	100%	\$3,203	\$3,203	2.33
										37.65 rig hours / 1 rigs 37.65 project hours						Grand Total		\$36,014	4 rig hours / 2 rigs 2 project hours	

Assumptions:

Cwt of bulk cement (assuming 94 lbs of cement per 1.18 cf of hole, that is 100 lbs of cement fills 1.25 cf)	1.25
Cement cost per cwt (CIRCES)	\$ 11.00
Rig setup time per hole (hr)	
Rig w/ crew hourly rate (Circes, Reed drill, 9.0")	\$ 291.16
2,500 gal water truck w/driver hourly rate (Circes)	\$ 57.55
Octoplug (Circes, \$ depends on dia.)	\$ 29.34
Cut surface casing & mark (Circes, \$/lf)	\$ 6.04
Cut surface casing: assumed length	4.0 ft

WHEEL LOADER – LOAD AND CARRY WORKTask description: Recontour 3 pads (1,000 sqft ea)Site: Dawson Gold ProjectPermit Action: MD03Permit/Job#: P2013002**PROJECT IDENTIFICATION**Task #: 020State: ColoradoAbbreviation: NoneDate: 4/7/2017County: FremontFilename: P002-020User: TC1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 450EAttachment 1: ROPS CabHorsepower: 101Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$20.08	NA
Operating Cost/Hour:	\$24.04	100
Operator Cost/Hour:	\$41.20	NA
Total Unit Cost/Hour:	\$85.32	
Total Fleet Cost/Hour:	\$85.32	

MATERIAL QUANTITIESInitial volume: 222

CCY

Swell factor: 1.250Loose volume: 278

LCY

Source of estimated volume: Response to NOD 12/17/15Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.475 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Bank or broken material 0.04	0.040	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.080	minutes
Adjusted Basic Cycle Time:		0.555	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	20	3.00	4.00	7.00	0.0173	(Cat HB)
Return Route:	20	-3.00	4.00	1.00	0.0084	(Cat HB)

Total Travel Time: 0.0257 minutes
 Total Cycle Time: 0.5807 minutes

Load Bucket Capacity

Rated Capacity: 1.50 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 1.65 LCY

Job Condition Correction Factors

Site Altitude: 6800 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: 170.48 LCY/Hour
 Adjusted Hourly Unit Production: 141.50 LCY/Hour
 Adjusted Hourly Fleet Production: 141.50 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 1.96 Hours
 Unit cost: \$0.603 /LCY Total job cost: \$167

TRUCK/LOADER TEAM WORKTask description: **Haul 312 CY for Road Stabilization & Mix w/ Cat 324**Site: **Dawson Gold Project**Permit Action: MD03Permit/Job#: P2013002**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 4/7/2017County: FremontFilename: P002-04AUser: TC1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

		Equipment Description
Truck Loader Team -Truck:		Generic 2-4 cy, 4x2
-Loader:		CAT 450E
Support Equipment -Load Area:		NA
-Dump Area:		Cat 324D L 9'-8" Stick
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	5	NA	10	NA	NA
Ownership cost/hour:	\$9.15	\$20.08	NA	\$38.54	NA	NA
Operating cost/hour:	\$19.50	\$1.20	NA	\$4.02	NA	NA
% Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$29.73	\$41.20	NA	\$37.79	NA	NA
Unit Subtotals:	\$58.38	\$62.48	NA	\$80.35	NA	NA
Number of Units:	2	1	0	1	0	0
Group Subtotals:	Work: \$179.24		Support: \$80.35		Maint: \$0.00	

Total work team cost/hour: **\$259.59****MATERIAL QUANTITIES**Initial volume: 312

CCY

Swell factor: 1.220Loose volume: **381**

LCY

Source of estimated volume: 2nd & 3rd NOD Responses (2/23 & 3/15 2017)Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: 2,800

Pounds/LCY

Description: Clay - Natural bedRated Payload: 12,420

Pounds

Payload Capacity: 4.44

LCY

Truck Bed (volume) Basis:

Struck Volume:	2.00	LCY
Heaped Volume:	4.00	LCY
Average Volume:	3.00	LCY
Adjusted Volume:	4.00	LCY

Final Truck Volume Based on Number of Loader Passes: 3.08 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	1.500	LCY (heaped)
Bucket Fill Factor:	1.025	Bank Clay; Earth (100%-105%) 1.025
Adjusted Capacity:	1.538	LCY

Job Condition Corrections:

Site Altitude (ft.): 6600 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	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: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.475 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.020	minutes
Adjusted Loader Cycle Time:		0.495	minutes
Net Load Time per Truck:		0.595	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.595	Minutes	Adjusted for site altitude:	0.595	Minutes
Truck Maneuver and Dump Time:	0.80	Minutes	Adjusted for site altitude:	0.800	Minutes

Truck Travel (Haul & Return) Time:
penetration 14

Road Condition: Soft, rutted dirt, no maintenance or water, 8" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5810.00	9.50	14.00	23.50	450	12.912

Haul Time: **12.912** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5810.00	-9.50	14.00	4.50	2814	2.091

Return Time: **2.091** minutesTotal Truck Cycle Time: **16.898** minutes

Loading Tool unit

Production 168.49 LCY/Hour Adjusted for job efficiency: 139.85 LCY/Hour
Truck Unit Production 10.92 LCY/Hour Adjusted for job efficiency: 9.06 LCY/Hour

Optimal No. of Trucks: 15 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 18.12 LCY/Hour
Adjusted single truck/loader team production: 18.12 LCY/Hour
Adjusted multiple truck/loader team production: **18.12** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **21.00** HoursUnit cost: \$14.322 /LCY Total job cost: **\$5,452**

HYDRAULIC EXCAVATOR WORK

Task description: Recontour 11.5 x 7,400 ft New Road

Site: Dawson Gold Project

Permit Action: MD03

Permit/Job#: P2013002

PROJECT IDENTIFICATION

Task #: 04C

State: Colorado

Abbreviation: None

Date: 4/7/2017

County: Fremont

Filename: P002-04C

User: TC1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 324D L 9'-8" Stick

Attachment 1: ROPS Cab

Horsepower: 194

Weight (MT): 24.85

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$38.54</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$40.22</u>	<u>100</u>
Operator Cost/Hour:	<u>\$37.79</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$116.55</u>	
Total Fleet Cost/Hour:	<u>\$116.55</u>	

MATERIAL QUANTITIES

Initial volume: 9,264

CCY

Swell factor: 1.000

Loose volume: 9,264

LCY

Source of estimated volume: 2nd NOD Response (2/23/2017), Table 1

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

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

Basic Job Condition Description: SEVERE

Secondary Job Condition within Basic Description: SEVERE

Cycle Time Value: 0.403 minutes

Load Bucket Capacity

Bucket Size Class: Small

Rated Capacity: 1.56 LCY (heaped)

Bucket Fill Factor: 0.450 Rock - Poorly blasted (40% - 50%) 0.450

Adjusted Capacity: 0.70 LCY

Job Condition Correction Factors

Site Altitude: 6700 feet

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

Unadjusted Hourly Unit Production: 104.52 LCY/Hour

Adjusted Hourly Unit Production: 86.75 LCY/Hour

Adjusted Hourly Fleet Production: 86.75 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 106.79 Hours

Unit cost: \$1,344 /LCY Total job cost: \$12,447

REVEGETATION WORKTask description: Reveg 7.8 AcresSite: Dawson Gold ProjectPermit Action: MD03Permit/Job#: P2013002**PROJECT IDENTIFICATION**Task #: 050State: ColoradoAbbreviation: NoneDate: 12/15/2016County: FremontFilename: XxxxUser: TC1Agency 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
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.90	14.69	\$14.64
Indian Ricegrass - Nespar	2.00	6.47	\$15.50
Sand Dropseed	0.20	23.88	\$2.17
Little Bluestem - Pastura	2.80	16.71	\$47.12
Sideoats Grama - Vaughn	5.40	17.73	\$54.00
Bottlebrush Squirreltail	0.90	3.97	\$21.15
Needle and Thread	1.10	2.90	\$45.65
Totals Seed Mix	13.30	86.35	\$200.24

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
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
Total Mulch Application Cost/Acre	\$66.02

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:	7.8	Cost /Acre:	\$1,161.77
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,161.77
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$9,061.81		
Reseeding Job Cost:	\$4,530.90		
Total Job Cost:	\$13,593		
Job Hours:	10.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Dawson Gold Project**Permit Action: MD03Permit/Job#: P2013002**PROJECT IDENTIFICATION**Task #: 060State: ColoradoAbbreviation: NoneDate: 12/15/2016County: FremontFilename: XxxxUser: TC1Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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
SCHRAMM T450BH	0.00	\$57.44	\$88.67	1	\$146.11	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
CAT 450E	9.80	\$20.08	\$88.67	1	\$108.75	\$88.67	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$38.54	\$117.55	1	\$156.09	\$117.55	\$250.00

Subtotals: **\$506.65** **\$383.56** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$50.75	1	\$50.75	\$50.75
Generic 2-4 cy, 4x2	\$58.38	2	\$116.76	\$116.76

Subtotals: **\$167.51** **\$167.51**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CAÑON CITY	
Total one-way travel distance:	8.00	miles
Average Travel Speed:	12.50	mph

Total Non-Roadable Mob/Demob Cost *	\$3,646.12
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$214.41
'** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.64	0.64
Return Time (Hours):	0.64	0.64
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.78	1.28

JOB TIME AND COST

Total job time:	3.56	Hours
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Total job cost:	\$3,861
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **"Intra-site" Mob/Demob**Site: **Dawson Gold Project**Permit Action: MD03Permit/Job#: P2013002**PROJECT IDENTIFICATION**Task #: 061State: ColoradoAbbreviation: NoneDate: 4/7/2017County: FremontFilename: YyyyUser: TC1Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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
SCHRAMM T450BH	0.00	\$57.44	\$88.67	1	\$146.11	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
Subtotals:					\$241.81	\$177.34	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$50.75	1	\$50.75	\$50.75
Subtotals:			\$50.75	\$50.75

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	DRILL PAD TO DRILL PAD	
Total one-way travel distance:	1.50	miles
Average Travel Speed:	3.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,660.96	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$50.75	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.50	1.00

JOB TIME AND COST

Total job time:	3.00	Hours
Total job cost:	\$1,712	