




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Phillips Stone Company	MINE/PROSPECTING ID#: M-1981-075	MINERAL: Sandstone	COUNTY: Boulder
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger, Wally Erickson	INSP. DATE: May 17, 2017	INSP. TIME: 10:20
OPERATOR: Phillips Stone Company, Inc.	OPERATOR REPRESENTATIVE: None Present	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Priority	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$6,010.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 26, 2017	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>2 PBs</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>NA</u>

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

INSPECTION TOPIC: Failure to Maintain the Financial Warranty in Good Standing

PROBLEM: The Division has been notified by the Permittee's bank that the bond held for this permit (a corporate surety in the amount of \$6,010.00) will expire on June 30, 2017. The Permittee must ensure the financial warranty is maintained in good standing by either renewing the existing bond prior to expiration, or providing a replacement bond prior to expiration of the existing bond. If, on June 30th, the Permittee fails to maintain the financial warranty, the Division will pursue enforcement action against the Permittee for failure to comply with C.R.S. 34-32.5-117(6)(a).

CORRECTIVE ACTION: The Permittee must either renew the existing financial warranty or provide an appropriate replacement financial warranty not less than \$6,010.00. The Permittee is encouraged to contact the Division's Financial Assurance Officer, Barbara Coria, at 303-866-3567, ext. 8148, with any questions regarding the renewal or replacement of the financial warranty.

CORRECTIVE ACTION DUE DATE: June 30, 2017

INSPECTION TOPIC: Notice to Increase the Financial Warranty

PROBLEM: Pursuant to C.R.S. 34-32.5-117(4)(b), the Division has reviewed the current cost of reclamation totaling \$17,180.00. Therefore, the existing \$6,010.00 financial warranty is not adequate to ensure completion of reclamation of the affected lands in accordance with the approved reclamation plan. Please find enclosed, the Division's Cost Summary Work for estimating the current cost of reclamation.

CORRECTIVE ACTION: Pursuant to C.R.S. 34-32.5-117(4)(c)(II), the Permittee has 60 days from the signature date of this inspection report to augment the existing \$6,010.00 financial warranty by \$11,170.00, to ensure a total financial warranty not less than \$17,180.00.

CORRECTIVE ACTION DUE DATE: July 25, 2017

OBSERVATIONS

This inspection was conducted in accordance with the Division's routine monitoring program for all permitted operations. Phillips Stone Company, Inc. was not represented during the inspection. Mr. Raul Vasquez, with Blue Mountain Stone, Inc., accompanied the Division throughout the inspection. The 110c quarry is approved for 9.9 acres of affected lands for the extraction of sandstone products. Affected lands will be reclaimed to support residential post-mining land use. The Division holds a \$6,010.00 financial warranty for the site. This report is accompanied by two Google Earth images, 18 photographs, and an updated reclamation cost estimation totaling \$17,180.00.

Permit records indicate the affected lands are owned by Robert J. and Frances A. Phillips, whom also hold the permit as Phillips Stone Company, Inc. (Permittee). During a May 10, 2017 phone conversation, Frances Phillips indicated ownership of the property and permit had transferred in 2014 to Blue Mountain Stone, Inc. However, the Division has not received an application for transfer of the permit to Blue Mountain Stone, Inc., as successor operator. Therefore, Phillips Stone Company, Inc. remains the Permittee regardless of ownership of the property. Accordingly, the Division will continue to hold Phillips Stone Company, Inc. responsible for not only maintaining the permit and bond, but also for ensuring the operation is conducted in accordance with the requirements of the Act, Rules and permit conditions. Furthermore, if ownership of the affected lands has transferred from the Permittee to Blue Mountain Stone, Inc., the Permittee is now obligated to demonstrate a legal right to enter the affected lands to conduct mining and reclamation activities, pursuant to Rule 6.3.7. Thus, if it is the Permittee's desire to transfer the permit to Blue Mountain Stone, Inc., the Permittee is strongly encouraged to immediately submit a properly executed application for transfer of the permit, also called a Succession of Operators application. The Division has provided copies of the appropriate application to the Permittee and/or to Blue Mountain Stone, Inc. The Succession of Operators application is also available through the Division's website at <http://mining.state.co.us>.

As shown in Photos 1-18, the site was active during the inspection. Disturbed lands were estimated at 7.35 acres, all of which were located within the 9.9 acre permit boundary. Highwalls ranged from 4 to 20 feet in height, which extended for a total of approximately 1,015 lineal feet. Topsoil and overburden materials were stockpiled above the crest of the highwalls and/or within the pit area and thereby available for reclamation purposes with short push distances. Pallets of sandstone product were concentrated in the northern portions of the quarry and along the haul road, awaiting transport.

According to the approved reclamation plan, highwalls will be left at no more than 6 feet in height. All disturbed land will be reduced to a 2H:1V or flatter slope gradient, topsoil will be replaced, and the site revegetated. The reclamation vegetative cover will be established by planting a seed mix composed of native bunch grass species and transplanting seedlings of Skunkbrush sumac, Mountain mahogany, Ponderosa pine, and Rocky Mountain juniper. Haul roads located within the permit area will be reclaimed.

Based on observations made during the inspection and recorded in this report, the Division has determined the current cost of reclamation to be in the amount of \$17,180.00. Therefore, the existing \$6,010.00 financial warranty is insufficient to ensure completion of reclamation. The Division's Cost Summary Work for estimating the current cost of reclamation is enclosed with this report. Pursuant to Rule 4.2.1(2), the Permittee has 60 days to submit the \$11,170.00 additional bond to ensure a total financial warranty of not less than \$17,180.00. Alternately, during the same 60 day period, the Permittee may elect to complete portions of the reclamation plan whereby the existing \$6,010.00 financial warranty may be rendered sufficient. Additionally, the current \$6,010.00 financial warranty will expire on June 30, 2017, unless the Permittee renews and/or replaces the existing bond. Therefore, the Division has cited two problems regarding the financial warranty and has imposed corrective action deadlines (see page 2 for more details).

Enclosures: Division's notice of cancellation of bond, dated October 4, 2016
Two Google Earth images illustrating site conditions as of October 9, 2015
18 photographs taken by the Division during the inspection
Division's updated reclamation cost estimation

CERTIFICATE OF SERVICE

I, Amy Eschberger, hereby certify that on this 26th day of May, 2017, mailed a true and complete copy of the foregoing inspection report generated from the May 17, 2017 inspection of the Phillips Stone Company, Permit No. M-1981-075, with enclosures, with the U.S. Post Office, first class postage affixed, addressed to the following:

Frances Phillips
Phillips Stone Company, Inc.
7850 Ute Hwy
Longmont, CO 80503

And by electronic transmission to the following email addresses:

Abraham Vasquez, Blue Mountain Stone, Inc., at bluemtnstone@gmail.com
Wally Erickson, DRMS, at wally.erickson@state.co.us

PHOTOGRAPHS



Photo 1. View of area being worked during the inspection, located in southern portion of permit area.



Photo 2. View of area being worked during the inspection, located in central portion of permit area.



Photo 3. View of area being worked during the inspection, located in northern portion of permit area.



Photo 4. View of area being worked during the inspection, located in northern portion of permit area.



Photo 5. View of highwall along western edge of site in southern quarry area.



Photo 6. View of highwall along western edge of site in southern quarry area.



Photo 7. View of overburden stockpiled along top of western highwall in southern quarry area.



Photo 8. View looking north, showing active pit located in eastern half of southern quarry area



Photo 9. View looking southeast, showing active pit located in eastern half of southern quarry area



Photo 10. View looking south, showing active pit located in eastern half of southern quarry area



Photo 11. View of highwall along western edge of site in northern quarry area.



Photo 12. View of highwall along western edge of site in northern quarry area.



Photo 13. View of highwall along western edge of site in northern quarry area.



Photo 14. View of highwall along western edge of site in northern quarry area.



Photo 15. View of overburden stockpiled to the east of highwalls in northern quarry area.



Photo 16. View of overburden stockpiled to the east of highwalls in northern quarry area.



Photo 17. View of overburden stockpiled to the east of highwalls in northern quarry area.



Photo 18. View of palletized stone stored in northern quarry area.



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

1313 Sherman Street, Room 215
Denver, CO 80203

Request FW documents

October 4, 2016

Frances A Phillips
Phillips Stone Company, Inc.
7850 Ute Hwy
Longmont, CO 80503

**Re: Notice of Cancellation of Bond No. 55096981, United Fire & Casualty Company
Phillips Stone Company, Inc., Phillips Stone Company, Permit No. M-1981-075**

Dear Ms. Phillips,

On September 27, 2016, the Division of Reclamation, Mining and Safety received Notice of Cancellation of Surety No. 55096981, in the amount of \$6,010.00, effective **January 24, 2017**. In compliance with the provisions of this surety bond, cancellation is effective only on an anniversary date when written notification is received at least 90 days prior to such an anniversary date.

According to our records, the anniversary of Bond No. 55096981 is **June 30**. The Division of Reclamation, Mining and Safety thereby accepts Notice of Cancellation effective **June 30, 2017** with the understanding that the obligation of surety shall continue in force until reclamation is complete and accepted by the Board for all areas disturbed while the surety was in effect or until substitute surety is accepted, which includes all those disturbances. Cancellation is in effect only for disturbance subsequent to the effective date of termination.

If substitute surety shall be furnished which includes satisfactory coverage of all reclamation obligations from the beginning of operations under the permit, the existing Reclamation Bond/Financial Warranty may be released in its entirety by action of the Mined Land Reclamation Board.

Prior to this expiration date, you must submit a substitute Financial Warranty for Bond No. 55096981, in the amount of \$6,010.00.

A replacement financial warranty must be received and approved by the Division prior to **May 30, 2017**. If the executed form has not been received by **May 30, 2017**, the Division will schedule this matter before the Mined Land Reclamation Board at their **July 2017** meeting for a Formal Public Hearing to consider a Notice of Violation/Cease and Desist Order and possible Civil Penalties of not less than one hundred dollars (\$100.00) per day nor more than one thousand dollars (\$1,000.00) per day for each day after **June 30, 2017** that the violation occurs, for your failure to submit substitute financial warranty.

If you wish to use a different method for posting the required Financial Warranty, as described under Rule 4.3 of the Rules and Regulations, please contact this office for the applicable forms, or if you have any questions.

Sincerely,


Barbara Coria
Financial Assurance Specialist

Certified Mail Receipt No. 7014 2120 0001 8040 0644, return receipt requested

Cc: Michael Cunningham, Division of Reclamation, Mining and Safety

United Fire & Casualty Company
Arthur J Gallagher Risk MGM



M1981-075 / Phillips Stone Company / Phillips Stone Company, Inc.

Red Outline = 9.9 acres = Approved Permit Area
(Image data from 10/9/2015)

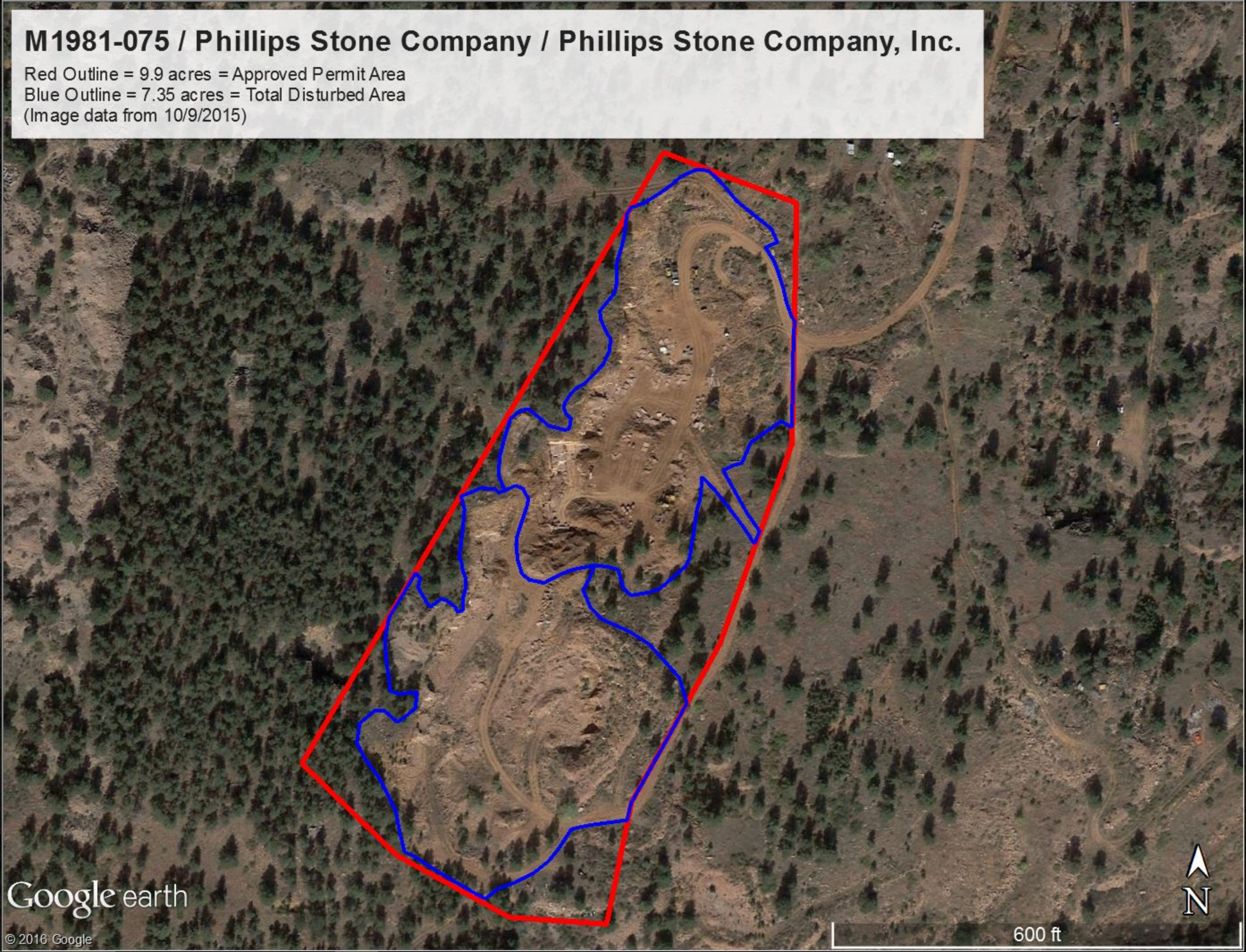


M1981-075 / Phillips Stone Company / Phillips Stone Company, Inc.

Red Outline = 9.9 acres = Approved Permit Area

Blue Outline = 7.35 acres = Total Disturbed Area

(Image data from 10/9/2015)



COST SUMMARY WORK

Task description: Cost Summary

Site: Phillips Stone Company

Permit Action: Inspection 5/17/2017

Permit/Job#: M1981075

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/24/2017

County: Boulder

Filename: M075-000

User: AME

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill highwall in southern quarry area	DOZER	2	0.51	\$196.00
002	Backfill highwall in northern quarry area	DOZER	2	3.64	\$1,387.00
003	Revegetate 7.35 acres	REVEGE	1	22.00	\$8,330.00
004	Mobilization/Demobilization	MOBILIZE	1	3.20	\$3,188.00
<u>SUBTOTALS:</u>				29.35	\$13,101

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$264.64
Performance bond:	1.05	Total =	\$137.56
Job superintendent:	14.68	Total =	\$1,072.01
Profit:	10.00	Total =	\$1,310.10
		TOTAL O & P =	\$2,784.31
		CONTRACT AMOUNT (direct + O & P) =	\$15,885.31

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		\$794.27
CONTINGENCY: 0.00		Total =	\$0.00
		TOTAL INDIRECT COST =	\$4,078.58
		TOTAL BOND AMOUNT (direct + indirect) =	\$17,179.58

BULLDOZER WORKTask description: **Backfill highwall in southern quarry area**Site: **Phillips Stone Company**Permit Action: Inspection 5/17/2017Permit/Job#: M1981075**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 5/24/2017County: BoulderFilename: M075-001User: AMEAgency 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>\$40.52</u>	<u>NA</u>

Total unit Cost/Hour: \$190.50Total Fleet Cost/Hour: **\$381.00****MATERIAL QUANTITIES**Initial Volume: 890Swell factor: 1.335Loose volume: **1,188 LCY**Source of estimated volume: Avg 8 ft H x 375 ft L; push OB off edge of highwallSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -5 %Average site altitude: 6,200 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**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>1.200</u>	<u>(SLOT)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>
Job efficiency:	<u>0.830</u>	<u>(1 SHIFT/DAY)</u>

Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8264

Adjusted unit production: 1,156.96 LCY/hr

Adjusted fleet production: **2313.92** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.165/LCY

Total job time: **0.51** Hours

Total job cost: **\$196**

BULLDOZER WORKTask description: **Backfill highwall in northern quarry area**Site: **Phillips Stone Company**Permit Action: Inspection 5/17/2017Permit/Job#: M1981075**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 5/24/2017County: BoulderFilename: M075-002User: AMEAgency 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>\$40.52</u>	<u>NA</u>

Total unit Cost/Hour: \$190.50Total Fleet Cost/Hour: **\$381.00****MATERIAL QUANTITIES**Initial Volume: 3,413Swell factor: 1.335Loose volume: **4,556 LCY**Source of estimated volume: Avg 12 ft H x 640 ft L; push OB upslope to highwallSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 60 feetUnadjusted hourly production: 1,246.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 5 %Average site altitude: 6,200 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**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:	<u>0.830</u>	<u>(1 SHIFT/DAY)</u>

Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5020

Adjusted unit production: 625.94 LCY/hr

Adjusted fleet production: **1251.88** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.304/LCY

Total job time: **3.64** Hours

Total job cost: **\$1,387**

REVEGETATION WORKTask description: Revegetate 7.35 acresSite: Phillips Stone CompanyPermit Action: Inspection 5/17/2017Permit/Job#: M1981075**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 5/24/2017County: BoulderFilename: M075-003User: AMEAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Potassium nitrate, 13-46-0	2.00	pound	\$1.23	\$2.46
			Total Fertilizer Materials Cost/Acre	\$2.46

Application

Description	Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	\$181.65
Total Fertilizer Application Cost/Acre	\$181.65

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$242.00
Total Tilling Cost/Acre	\$242.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	8.00	130.58	\$116.00
Sheep Fescue - Bighorn	8.00	124.89	\$37.84
Western Wheatgrass - Native	8.00	20.20	\$56.00
Spike Muhly	2.00	73.46	\$19.26
Totals Seed Mix	26.00	349.13	\$229.10

Application

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

Total Seed Application Cost/Acre	\$267.22
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Juniper, Rocky Mountain	10	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.22	\$0.00	\$22.20
Pine, Ponderosa	10	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.22	\$0.00	\$22.20
Mahogany, Mountain	10	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.12	\$0.00	\$21.20
Sumac, Skunkbrush	10	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.12	\$0.00	\$21.20
Totals Nursery Stock Cost / Acre					\$86.80

JOB TIME AND COST

No. of Acres:	<u>7.35</u>	Cost /Acre:	<u>\$1,009.23</u>
Estimated Failure Rate:	<u>25%</u>	Cost /Acre*:	<u>\$496.32</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		

Initial Job Cost:	<u>\$7,417.84</u>
Reseeding Job Cost:	<u>\$911.99</u>
Total Job Cost:	<u>\$8,330</u>
Job Hours:	<u>22.00</u>

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilization/DemobilizationSite: Phillips Stone CompanyPermit Action: Inspection 5/17/2017Permit/Job#: M1981075**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 5/24/2017County: BoulderFilename: M81-075-004User: AMEAgency 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
Cat D8T - 8SU	47.71	\$83.81	\$117.55	2	\$402.72	\$235.10	\$1,000.00
Subtotals:					\$402.72	\$235.10	\$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Subtotals:			\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>LONGMONT</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,188.13</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.30</u>	<u>0.30</u>
Return Time (Hours):	<u>0.30</u>	<u>0.30</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.60</u>	<u>0.60</u>

JOB TIME AND COST

Total job time:	<u>3.20</u>	Hours
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Total job cost:	<u>\$3,188</u>
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