

# STATE OF COLORADO

## DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215

Denver, Colorado 80203

Phone: (303) 866-3567

FAX: (303) 832-8106



February 25, 2014

John W. Hickenlooper  
Governor

Mike King  
Executive Director

Loretta E. Piñeda  
Director

Steve and Joyce Wright  
Arboles Sand & Stone  
12577 Highway 151  
Pagosa Springs, CO 81147

**Re: File No. M-2013-066, Lob Lolly Pit, 112c Decision Letter - Financial and Performance  
Warranty Request - Construction Material Operation**

Steve and Joyce Wright:

On February 25, 2014, the Division of Reclamation, Mining and Safety approved your 112c mining permit application.

The amount of financial warranty set by the Division for this operation is \$46,828.32. You must submit a financial warranty in this amount and a performance warranty in order for us to issue a permit. In the event you have requested a financial warranty form, we have enclosed it in this letter. If you have not, please select a type of financial warranty from Rule 4.3. Then contact us so that we can provide you with the appropriate warranty form. We have enclosed a performance warranty form with this letter for your use.

**PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION AFTER RECEIPT OF YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY. A PERMIT WILL NOT BE ISSUED UNTIL WE VERIFY THE ADEQUACY OF BOTH YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY.**

If you have any questions, please contact me.

Sincerely,

Kate A. Pickford  
Environmental Protection Specialist

Enclosure

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### PERFORMANCE WARRANTY

Permittee: Arboles Sand & Stone

Operation: Lob Lolly Pit

Permit No: M-2013-066

John W. Hickenlooper  
Governor

Mike King  
Executive Director

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Director

*This form has been approved by the Mined Land Reclamation Board pursuant to sections 34-32-117, C.R.S., of the Mined Land Reclamation Act and 34-32.5-117, C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials. Any alteration or modification of this form, without approval by the Board shall result in the financial warranty being invalid and result in the voiding of any permit issued in conjunction with such invalid financial warranty and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to sections 34-32-123, C.R.S., of the Mined Land Reclamation Act and 34-32.5-123, C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials.*

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the Colorado Mined Land Reclamation Act, C.R.S. 34-32-101 et seq. (the "Act"), as amended, and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. 34-32.5-101 et seq. (the "Act"), as amended, provides that no permit may be issued under the Act until the Mined Land Reclamation Board (the "Board") receives a performance warranty (or warranties) that is a written promise to comply with all applicable requirements of the Act.

WHEREAS, Arboles Sand & Stone (the "Permittee"), has applied for a permit to conduct a mining operation known as Lob Lolly Pit (the "Operation") on certain lands in Archuleta County, Colorado. These lands are described in the permit application, as amended and supplemented, and are referred to herein as the "Affected Lands".

WHEREAS, in its application for the permit, the Permittee has agreed to be bound by all requirements of the Act and all applicable rules and regulations of the Board, as amended from time to time.

WHEREAS, the Board has determined, in accordance with the Act, that the estimated costs of reclamation with regard to those affected lands in Archuleta County which are now or may become subject to the permit are those amounts for the stated periods of time as set forth in the financial warranty, which may be amended from time to time to reflect revised estimates of said costs of reclamation.

WHEREAS, the Permittee hereby gives the Board a performance warranty pursuant to Section 34-32-117(2) or Section 34-32.5-117(2) of the Act, and herein promises the Board that it will comply with all applicable requirements of the Act with regard to those Affected Lands.

NOW, THEREFORE, the Permittee hereby promises the Board that it will comply with all applicable requirements of the Act and rules and regulations of the Board with respect to the Affected Lands.

FURTHER, the Permittee hereby promises the Board that it will comply with all of the terms of the application for a permit, as amended and supplemented, as well as any conditions attached to the permit by the Board.

FURTHER, the Permittee promises the Board, pursuant to 34-32-112(2)(d) or 34-32.5-112(1)(c)(iv) of the Act, that it has the lawful authority to enter upon the Affected Lands to conduct mining operations, including, but not limited to, reclamation. The Permittee further recognizes the right of the Board to enter to reclaim lands affected by the operation.

The description of lands herein is for convenience of reference only, and no error in such description, nor any revision of the permitted mining area, nor the disturbance by the Warrantor of lands outside of the permitted mining area shall alter or diminish the Permittee's obligation hereunder, which shall extend to the reclamation of all such lands disturbed.

The obligation of the Permittee hereunder is such that, if the Permittee shall successfully comply with the requirements of the Act, applicable rules and regulations, and the permit, then the Board, upon a finding that the Permittee has so complied, shall release this performance warranty, and the Permittee from its obligation hereunder, to the extent that the Board determines that such compliance has been accomplished. The obligation of the Permittee hereunder shall continue until released in whole or in part by the Board in accordance with applicable law.

In further satisfaction of the requirements of the Act, the Permittee promises to be responsible for the cost of reclamation up to the amount established by the Board and has attached hereto its financial warranty, which may be amended from time to time. The Permittee agrees that it will maintain a financial warranty (or warranties) for the estimated costs of reclamation in good standing for the entire life of the permit. Please note that under the provisions of the Colorado Mined Land Reclamation Act and the Colorado Land Reclamation Act for the Extraction of Construction Materials, any Applicant or Permittee that submits proof, acceptable to the Board or Division of Reclamation, Mining and Safety, that an Applicant or Permittee is a unit of County or Municipal government, or is a department or division of State government, the Applicant or Permittee is not required to submit or post any other instrument of financial responsibility but hereby promises to be responsible for the cost of reclamation up to the amount specified by the Board.

If the Board determines that the Permittee is in default under this performance warranty and has failed to cure such default, although written notice of such default and ample time to cure such default have been given, the Permittee's financial warranty shall be subject to forfeiture.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado.

The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND DATED this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Arboles Sand & Stone (SEAL)  
Permittee

By: \_\_\_\_\_

Title: \_\_\_\_\_

**NOTARIZATION OF PERMITTEE'S ACKNOWLEDGEMENT**

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_  
, \_\_\_\_\_, by \_\_\_\_\_ as \_\_\_\_\_ of \_\_\_\_\_  
\_\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission expires: \_\_\_\_\_

APPROVED:  
State of Colorado  
Mined Land Reclamation Board  
Division of Reclamation, Mining and Safety

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Division Director

## COST SUMMARY WORK

Task description: New Application

Site: Lob Lolly Pit

Permit Action: New Application

Permit/Job#: M2013066

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/15/2014

County: Archuleta

Filename: M066-000

User: KAP

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade highwalls, 60' x 600'	DOZER	1	44.05	\$9,005.32
002	Spread topsoil 6" over 14 acres	DOZER	1	24.78	\$5,066.85
003	Rip compacted areas	RIPPER	1	23.80	\$5,023.00
004	Revegetate 2 acres	REVEGE	1	15.00	\$18,943.67
005	Mobilize	MOBILIZE	1	4.32	\$1,266.97
<b><u>SUBTOTALS:</u></b>				<b>111.95</b>	<b>\$39,305.81</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 0.00%

Total = \$0.00

Performance bond: 0.00%

Total = \$0.00

Job superintendent: 47.27 hrs

Total = \$3,091.93

Profit: 10.00%

Total = \$3,930.58

TOTAL O & P = \$7,022.51

CONTRACT AMOUNT (direct + O & P) = \$46,328.32

#### 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 = \$7,522.51

**TOTAL BOND AMOUNT (direct + indirect) = \$46,828.32**

BULLDOZER WORKTask description: Grade highwalls, 60' x 600'Site: Lob Lolly PitPermit Action: New ApplicationPermit/Job#: M2013066PROJECT IDENTIFICATIONTask #: 001State: ColoradoAbbreviation: NoneDate: 1/15/2014County: ArchuletaFilename: M066-001User: KAPAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45MATERIAL QUANTITIESInitial Volume: 20,000Swell factor: 1.250Loose volume: 25,000 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -20 %Average site altitude: 6,200 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% EarthJob Condition Correction Factor

		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6657

Adjusted unit production: 567.58 LCY/hr

Adjusted fleet production: 567.58 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
 Unit cost: \$0.360/LCY

Total job time: 44.05 Hours  
 Total job cost: \$9,005.32



BULLDOZER WORKTask description: Spread topsoil 6" over 14 acresSite: Lob Lolly PitPermit Action: New ApplicationPermit/Job#: M2013066PROJECT IDENTIFICATIONTask #: 002State: ColoradoAbbreviation: NoneDate: 1/15/2014County: ArchuletaFilename: M066-002User: KAPAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic 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:	\$63.00	NA
Operating Cost/Hour:	\$104.03	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$204.45Total Fleet Cost/Hour: \$204.45MATERIAL QUANTITIESInitial Volume: 11,288Swell factor: 1.125Loose volume: 12,699 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: -5 %Average site altitude: 6,200 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packedJob Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.200	(SLOT)



Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6010

Adjusted unit production: 512.41 LCY/hr

Adjusted fleet production: **512.41** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.399/LCY

Total job time: **24.78** Hours

Total job cost: **\$5,066.85**

## BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: Lob Lolly Pit Permit Action: New Application Permit/Job#: M2013066

### PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None  
Date: 1/15/2014 County: Archuleta Filename: M066-003  
User: KAP

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:	<u>\$63.00</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$104.03</u>	<u>100</u>
Ripper Operating Cost/Hour:	<u>\$6.53</u>	<u>100</u>
Operator Cost/Hour:	<u>\$37.41</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$210.98</u>	
Total Fleet Cost/Hour:	<u>\$210.98</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 13.90 acres Rip Depth (ft): 1.50 Volume: 33,638 BCY or CCY

Source of estimated quantity: Reclamation Plan

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.56</u>	mph
Average Ripping Width:	<u>7.08</u>	degrees
Average Ripping Length:	<u>100.00</u>	feet
Average Dozer Speed:	<u>88.00</u>	feet
Average Maneuver Time:	<u>0.25</u>	feet
Production per unit area:	<u>0.703</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.703 Acres/hr  
Site Altitude: 6,200 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.58 Acres/hr  
Adjusted Hourly Fleet Production: 0.58 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 23.81 Hours

Unit cost: \$361.363 Per acre Total job cost: \$5,023.00

REVEGETATION WORKTask description: Revegetate 2 acresSite: Lob Lolly PitPermit Action: New ApplicationPermit/Job#: M2013066PROJECT IDENTIFICATIONTask #: 004State: ColoradoAbbreviation: NoneDate: 1/15/2014County: ArchuletaFilename: M066-004User: KAPAgency or organization name: DRMSFERTILIZINGMaterials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.33	\$32.70
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$32.70</b>

Application

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$22.22
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$22.22</b>

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
<b>Total Tilling Cost/Acre</b>	<b>\$98.01</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barnultra	5.00	21.81	\$7.35
Meadow Brome - Regar	2.50	2.30	\$7.50
Orchardgrass - Paiute	5.00	61.98	\$10.80
Intermediate Wheatgrass - Oahe	3.75	8.01	\$8.10
Smooth Brome - Manchar	2.50	8.32	\$4.93
Burnett, Small (or Little) - Delar	2.50	3.16	\$4.43
Sainfoin - Remont	3.75	1.64	\$10.54
<b>Totals Seed Mix</b>	<b>25.00</b>	<b>107.21</b>	<b>\$53.64</b>

Application

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Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20
<b>Total Seed Application Cost/Acre</b>	<b>\$88.20</b>

## MULCHING and MISCELLANEOUS

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Herbicide - Curtail @ 4.0 pt/ac	4.00	ACRE	\$16.24	\$64.96
<b>Total Mulch Materials Cost/Acre</b>				<b>\$594.96</b>

## Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Weed spray, truck, aquatic area, nox. [DMG]	\$61.49
<b>Total Mulch Application Cost/Acre</b>	<b>\$127.38</b>

## 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:	14.9	Cost /Acre:	\$1,017.11
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,017.11
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	\$15,154.94		
Reseeding Job Cost:	\$3,788.73		
Total Job Cost:	\$18,943.67		
Job Hours:	15.00		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: MobilizeSite: Lob Lolly PitPermit Action: New ApplicationPermit/Job#: M2013066**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 1/15/2014County: ArchuletaFilename: M066-005User: KAPAgency 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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	53.08	\$63.00	\$125.45	1	\$188.45	\$125.45	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$0.00

Subtotals: **\$316.71** **\$214.12** **\$0.00****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.	\$15.34	1	\$15.34	\$15.34

Subtotals: **\$15.34** **\$15.34**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PAGOSA SPRINGS</u>	
Total one-way travel distance:	<u>29.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,249.18</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$17.79</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.58</u>	<u>0.58</u>
Return Time (Hours):	<u>0.58</u>	<u>0.58</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.16</u>	<u>1.16</u>

**JOB TIME AND COST**

Total job time:	<u>4.32</u>	Hours
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Total job cost:	<u>\$1,266.97</u>
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