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

1313 Sherman St. Room 215
Denver, CO 80203

June 9, 2020

Eli Doose
Atlas Mining & Reclamation, LLC
19911 Highway 550
Montrose, CO 81403

Re: File No. M-2019-031, Von Doose Mine, M-2019-031 Decision Letter - Financial and Performance Warranty Request - Hard Rock Mining Operation

Mr. Doose:

On June 9, 2020, the Division of Reclamation, Mining and Safety **approved** your 110(1) mining permit application.

The amount of financial warranty set by the Division for this operation is $37,319.00. Copies of the Reclamation Cost Estimate Worksheets are enclosed with this letter. 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 <u>AFTER</u> 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,

Lucas J. West
Environmental Protection Specialist

Enclosure: M-2019-031 Performance Warranty (Blank copy)
Financial Warranty Check for Deposit in State Treasury Form (Blank)
Reclamation Cost Estimate Worksheets

cc: Travis Marshall, Senior Environmental Protection Specialist
Mike Thompson, Reardon Steele, LLC

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PERFORMANCE WARRANTY

Permittee/Operator: Atlas Mining & Reclamation, LLC

Operation known as: Von Doose Mine

Permit No: M-2019-031

This form is approved by the Colorado Mined Land Reclamation Board ("Board") pursuant to C.R.S. 34-32-117 of the Colorado Mined Land Reclamation Act and C.R.S. 34-32.5-117 of the Colorado Land Reclamation Act for the Extraction of Construction Materials.

All parties are on Notice from this Document that:

The above listed Operator provides this warranty to the Board in conjunction with a reclamation Permit to conduct the above described mining operation on certain lands in Colorado. The "Affected Lands" are described in the above listed reclamation Permit, and include any Permit Amendment(s) approved by the Division of Reclamation Mining and Safety ("Division").

The Colorado Mined Land Reclamation Act, C.R.S. 34-32-101 *et seq.* ("Hard Rock Act"), and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. 34-32.5-101 *et seq.* ("Construction Materials Act"), both require a permit issued by the Board to include a written promise by the Operator to comply with all requirements of the Hard Rock and Construction Materials Acts (referred to herein together as "Acts").

Through the terms and conditions of this performance warranty and Permit, the Operator agrees to be bound by all requirements of the Acts and all Mineral Rules and Regulations of the Board for Hard Rock, Metal, and Designated Mining Operations (2 C.C.R. 407-1) and all Mineral Rules and Regulations of the Board for the Extraction of Construction Materials (2 C.C.R. 407-4) (referred to herein together as "Rules").

The Operator hereby provides the Board warranties of performance pursuant to C.R.S. 34-32-117(2), (3), and (4)/C.R.S. 34-32.5-117(2), (3), and (4), and promises the Board it will comply with all applicable requirements of the Acts and Rules.

The Operator hereby promises the Board it will comply with all of the terms of the reclamation Permit, including any Permit Amendment(s) approved by the Division. This performance warranty obligation of the Operator shall continue until the Operator's liability is released by the Board.

The Operator promises to be responsible for reclamation costs up to the amount established by the Board and incorporates its financial warranty to this performance warranty. The Operator agrees to maintain a financial warranty (or warranties) in good standing for the reclamation costs for the entire life of the Permit. The amount of the financial warranty shall be sufficient to assure the completion of reclamation of affected lands if the Division has to complete such reclamation due to forfeiture. If the Board determines the Operator is in default under this performance warranty and the Operator fails to cure such default, the Operator's financial warranty shall be subject to forfeiture pursuant to C.R.S. 34-32-118/34-32.5-118.

This performance warranty by the Operator is perpetual and shall remain in full force and effect until all obligations have been met and all associated financial warranty is released by the Board. Any release of liability in a succession of Operators shall comply with C.R.S. 34-32-119/34-32.5-119.

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 ________________________, 20_____.

Operator: ______________________________

Signature: ______________________________

Name: ______________________________

Title: ______________________________

NOTARIZATION OF OPERATOR'S ACKNOWLEDGEMENT

STATE OF ____________________)
) ss.
COUNTY OF __________________)

The foregoing instrument was acknowledged before me this ________day of _______________, 20_____
(Day) (Month) (Year)

by ____ as ______________________________
(Name) (Title)

of ____.
(Operator)

____
NOTARY PUBLIC

My Commission expires: ____________________

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

By: ____ Date: ______________________
Division Director

Rev. 7-2018

M-AP-24

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

COLORADO DIVISION OF RECLAMATION MINING & SAFETY

FINANCIAL WARRANTY

CHECK FOR DEPOSIT IN STATE TREASURY

Operator ______________________________

Operation ______________________________

Permit No. ______________ Check No. ______________

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. 1973, 34-32-101 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 financial warranty (or warranties) as described in the Act.

WHEREAS, ______________________________(the "Operator), a ______________________ corporation, has applied for a permit to conduct a mining operation known as ______________________(the "Operation"), on certain lands in ______________ County, Colorado. These are described in the permit application, as amended and supplemented, and are referred to herein as the "Affected Lands".

WHEREAS, in the application for the permit the Operator 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, in the application for the permit, the Operator has agreed with the Board to provide for reclamation of the Affected Lands, that are now or may become subject to the permit, as required by law.

WHEREAS, the Board has determined in accordance with the Act that the estimated costs of reclamation of the Affected Lands are those amounts for the stated periods of time as set forth herein. Said amount may be amended from time to time to reflect revised estimates of said costs of reclamation.

WHEREAS, the Board has determined that the financial warranty by the Operator equals the estimated costs of reclamation, as approved by the Board, with regard to the Affected Lands.

WHEREAS, the Operator, in accordance with the Act has promised and hereby promises the Board that it will be responsible for all of the estimated costs of reclamation with regard to the Affected Lands.

WHEREAS, as proof of its financial responsibility the Operator has proceeded pursuant to Section 34-32-117(3)(a) of the Act and has executed a personal check, business check, cashier's check, or certified check No. _______________, payable to the Mined Land Reclamation Board in the amount of _____________________ dollars ($____________).

The Board has deposited the executed personal or business check, cashier's check or certified funds in the State of Colorado Treasury ("state treasury"). The above-mentioned sum is to be held as proof of the Operator's financial responsibility under this financial warranty.

The Operator has provided to the Board as proof of its authority to execute the above-mentioned personal or business check, by one of the following methods, as it applies to the Operator:

1. If the operator is a corporation, a copy of the corporate resolution, specifying the individuals that have authority to execute checks on behalf of the corporation.

2. If the Operator is a partnership, a copy of the partnership resolution, specifying the individuals that have authority to execute checks on behalf of the partnership.

3. If the Operator is an individual or a sole proprietor, confirmation from the bank stating the individuals that have authority to execute the above-mentioned check.

If the Operator has elected to proceed with a personal or business check, this financial warranty is not effective until the personal or business check has cleared the bank upon which it was drawn.

NOW THEREFORE, the operator is held hereby firmly unto the State of Colorado in the amount of those sums for those periods of time as set forth herein, until this financial warranty is amended or released in accordance with applicable law.

The Board may, for good cause shown, increase or decrease the amount and duration of this Financial Warranty. The Operator shall have sixty (60) days after the date of notice of any such adjustment to fulfill all new requirements.

The Operator shall notify the Board immediately of any event which may impair this Financial Warranty. If the Board receives such notice or otherwise has reason to believe that this Financial Warranty has been materially impaired, it may convene a hearing in accordance with the Act for the purpose of determining whether impairment has occurred.

The Board may withdraw the funds deposited in the state treasury held hereunder, if the Board determines that reclamation which ought to have been performed by the Operator, or its successors or assigns, remains unperformed. No other condition precedent need be fulfilled to entitle the Board to receive the funds deposited in the state treasury.

In the event of forfeiture of this financial warranty by the Board, if upon completion of reclamation by the Board the cost of reclamation shall be less than the amount received from the state treasury, the excess shall be promptly refunded to the Operator.

The obligation of the Operator shall continue until the Board has released this financial warranty or has ordered it forfeited in accordance with applicable provisions of the Act. It is understood that periods of years may necessarily be required before determination can be made that reclamation of the Affected Lands has been satisfactorily completed. It is also recognized that, as reclamation is accomplished, the amount of this financial warranty may be reduced with the approval of the board so that it reflects the then current estimated cost of the remaining reclamation of the Affected Lands. No revision, extension, or renewal of the permit or of the time allowed to complete reclamation shall diminish the Operator's obligation under this Financial Warranty.

Upon completion of reclamation by the Operator, and if the Board finds the reclamation satisfactory, the Board shall release the Financial Warranty and cause the state treasury to issue a check payable to the Operator in the amount of the original Financial Warranty and to include all accrued interest.

In any single year during the life of the permit, the amount of the Financial Warranty shall not exceed the estimated cost of fully reclaiming all lands to be affected in said year, plus all lands affected in previous permit years and not yet fully reclaimed. Reclamation costs shall be computed with reference to current reclamation costs.

The amount of this Financial Warranty is based upon estimates as to the cost of reclamation, and does not operate to liquidate, limit, enlarge, or restrict the Operator's obligations to complete the reclamation, even though the actual costs thereof may substantially exceed the amount of this Financial Warranty.

This Financial Warranty shall be subject to forfeiture whenever the Board determines that any one or more of the following circumstances exist:

1. A Cease and Desist Order entered pursuant to Section 34-32-124 of the Act has been violated, and the corrective action proposed in such order has not been completed although ample time to have done so has elapsed; or

2. The Operator is in default under its Performance Warranty, and such default has not been cured although written notice and ample time to cure such default has been given; or

3. The Operator has failed to maintain its Financial Warranty in good standing as required by the Act; or

4. The Operator no longer has the financial ability to carry out its obligations in accordance with the Act.

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 Operator of lands outside of the permitted mining area shall alter or diminish the obligations of the Operator hereunder, which shall extend to the reclamation of all such lands disturbed.

If this Financial Warranty applies to National Forest System lands, and if this Financial Warranty is accepted by the United States Forest Service ("U.S.F.S.") as the bond required under 36 C.F.R. 228.13, then, the Operator having requested that the Board and the U.S.F.S. accept this single Financial Warranty in lieu of the separate bonds which would otherwise be required by applicable law, hereby agrees that, notwithstanding any other provision hereof, or of law, this Financial Warranty shall remain in full force and effect until U.S.F.S. has advised the Board by written notice that the Operator's obligations to U.S.F.S. for which this warranty is executed have been satisfied and until its release has been approved by the Board.

If this Financial Warranty applies to lands under the jurisdiction of the State Board of Land Commissioners ("Land Board"), and if this Financial Warranty, in whole or in part, is accepted by the Land Board as the bond required under its applicable law and procedures, then, the Operator having requested that the state accept this Financial Warranty in lieu of the separate bonds which would otherwise be required by the Colorado Mined Land Reclamation Board or Division of Reclamation, Mining and Safety and by the Land Board, hereby agrees that, notwithstanding any other provision hereof, or of law, this Financial Warranty shall remain in full force and effect until the Board is notified in writing by the Land Board that the Operator's obligations to the Land Board, for which this warranty is executed, have been satisfied and until its release is approved by the Board.

If all or any part of the Affected Lands are under the jurisdiction of the Bureau of Land Management, United States Department of the Interior, ("the BLM") and if at the request of the Operator on this Financial Warranty the BLM has, pursuant to 43 C.F.R. 3809.1-9, accepted this Financial Warranty in lieu of requiring a separate reclamation bond payable to the United States, then, notwithstanding any other provision of this Financial Warranty, or of law, the Operator hereby agrees that this Financial Warranty shall not be released until the Board is advised in writing by the BLM that the Operator's obligations to the BLM, for which this warranty is executed, have been satisfied and until its release is approved by the Board.

This Financial 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 and dated this ______________ day of _________________________, ____________.

_____________________________________ (SEAL)
Operator

By: ____
Authorized Signature

____
Title

NOTARIZATION OF OPERATOR'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

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Form **W-9**
(Rev. October 2007)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name, if different from above

Check appropriate box: ☐ Individual/Sole proprietor ☐ Corporation ☐ Partnership ☐ Exempt payee
☐ Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ ....
☐ Other (see instructions) ▶

Address (number, street, and apt. or suite no.) | Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number

or

Employer identification number

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here | **Signature of U.S. person ▶** | **Date ▶**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,

- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name" line.

Limited liability company (LLC). Check the "Limited liability company" box only and enter the appropriate code for the tax classification ("D" for disregarded entity, "C" for corporation, "P" for partnership) in the space provided.

For a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Regulations section 301.7701-3, enter the owner's name on the "Name" line. Enter the LLC's name on the "Business name" line.

For an LLC classified as a partnership or a corporation, enter the LLC's name on the "Name" line and any business, trade, or DBA name on the "Business name" line.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name" line.

Note. You are requested to check the appropriate box for your status (individual/sole proprietor, corporation, etc.).

Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the business name, sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),

2. The United States or any of its agencies or instrumentalities,

3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,

4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or

5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

6. A corporation,

7. A foreign central bank of issue,

8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,

9. A futures commission merchant registered with the Commodity Futures Trading Commission,

10. A real estate investment trust,

11. An entity registered at all times during the tax year under the Investment Company Act of 1940,

12. A common trust fund operated by a bank under section 584(a),

13. A financial institution,

14. A middleman known in the investment community as a nominee or custodian, or

15. A trust exempt from tax under section 664 or described in section 4947.

The chart below shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	**THEN the payment is exempt for . . .**
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 13. Also, a person registered under the Investment Advisers Act of 1940 who regularly acts as a broker
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 7[2]

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation (including gross proceeds paid to an attorney under section 6045(f), even if the attorney is a corporation) and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited liability company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at *www.ssa.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting *www.irs.gov* or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: *A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.*

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). Exempt payees, see *Exempt Payee* on page 2.

Signature requirements. Complete the certification as indicated in 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account [1]
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor [2]
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee [1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner [1]
5. Sole proprietorship or disregarded entity owned by an individual	The owner [3]
For this type of account:	**Give name and EIN of:**
6. Disregarded entity not owned by an individual	The owner
7. A valid trust, estate, or pension trust	Legal entity [4]
8. Corporate or LLC electing corporate status on Form 8832	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership or multi-member LLC	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or "DBA" name on the second name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

Call the IRS at 1-800-829-1040 if you think your identity has been used inappropriately for tax purposes.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS personal property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: *spam@uce.gov* or contact them at *www.consumer.gov/idtheft* or 1-877-IDTHEFT(438-4338).

Visit the IRS website at *www.irs.gov* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

COST SUMMARY WORK

Task description:

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-000
User: LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Potential installation of Hydrologic Bulkhead	MINESEAL	1	32.00	$13,733
002	Seeding of Temporary Topsoil Berm	REVEGE	1	8.00	$164
003	Distribute/ regrade waste rock dump	EXCAVATE	1	8.40	$967
003a	Regrade waste rock pile	DOZER	1	21.99	$3,352
004a	Distribute topsoil over waste rock dump	EXCAVATE	1	8.83	$1,017
004b	Distribute topsoil over waste rock dump	DOZER	1	10.54	$1,607
005	Revegetate Waste Rock Pile	REVEGE	1	16.00	$3,207
006a	Distribute topsoil along side slopes of laydown area	EXCAVATE	1	1.56	$180
006b	Distribute topsoil along side slopes of lay down area	DOZER	1	1.63	$249
007	Seeding of Side slopes of Lay Down area	REVEGE	1	8.00	$1,110
008	Mobilization to and from the site	MOBILIZE	1	5.34	$2,095
			SUBTOTALS:	**122.29**	**$27,681**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	$559
Performance bond:	1.05	Total =	$291
Job superintendent:	61.15	Total =	$4,243
Profit:	10.00	Total =	$2,768
		TOTAL O & P =	$7,861
		CONTRACT AMOUNT (direct + O & P) =	$35,542

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	$0	Total =	$0
Engineering work and/or contract/bid preparation:	0.00	Total =	$0
Reclamation management and/or administration:	5.00		$1,777
CONTINGENCY:	0.00	Total =	$0

TOTAL INDIRECT COST = $9,638

TOTAL BOND AMOUNT (direct + indirect) = $37,319

SAFEGUARDING UNDERGROUND OPENINGS

Task description: **Potential installation of Hydrologic Bulkhead**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 001
Date: 5/8/2020
User: LJW

State: Colorado
County: Ouray

Abbreviation: None
Filename: M031-001

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Install bulkhead	8 ' x 10 '	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	80.00	SF	$171.67	$13,733.34

Job Hours: **32.00** **Total Cost:** **$13,733.34**

REVEGETATION WORK

Task description: **Seeding of Temporary Topsoil Berm**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-002
User: LJW

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	2,000.00	pound	$0.46	$911.20
			Total Fertilizer Materials Cost/Acre	**$911.20**

Application

Description	Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)	$596.77
Total Fertilizer Application Cost/Acre	**$596.77**

TILLING

Description	Cost /Acre
	$
Total Tilling Cost/Acre	**$0.00**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Fringed Bromegrass - Native	3.33	6.12	$56.61
Aster, Azure	0.14	3.92	$10.93
Big Bluegrass - Sherman	2.50	51.65	$21.19
Canada Wildrye	6.00	15.84	$65.04
Mountain Brome - Bromar	21.00	33.75	$79.80
Rocky Mountain Fescue	2.97	47.73	$21.53
Columbine, Colorado	0.39	3.25	$60.45
Lupine, Silver	5.25	3.08	$367.37
Slender Wheatgrass - Native	21.00	76.65	$97.13

Flax, Lewis Blue	6.00	39.80	$99.00
Tufted Hairgrass	1.89	108.47	$20.84
Penstemon, Rocky Mountain	2.28	35.74	$67.26
Yarrow, White	0.06	3.82	$2.40
Bluebunch Wheatgrass - Goldar	6.00	19.28	$27.60
Goldeneye - Showy	1.56	17.91	$93.60
Totals Seed Mix	80.37	467.00	**$1,090.75**

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**
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

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: 0.04
Cost /Acre: $3,045.94
Estimated Failure Rate: 35%
Cost /Acre*: $3,045.94
*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: **$121.84**
Reseeding Job Cost: **$42.64**
Total Job Cost: **$164**
Job Hours: **8.00**

HYDRAULIC EXCAVATOR WORK

Task description: **Distribute/ regrade waste rock dump**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #:	003	State:	Colorado	Abbreviation:	None
Date:	5/8/2020	County:	Ouray	Filename:	M031-003
User:	LJW				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat 320D L 9'-6" Stick	Horsepower:	148
Attachment 1:	ROPS Cab	Weight (MT):	21.55
		Shift Basis:	1 per day
		Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$37.31	NA
Operating Cost/Hour:	$40.45	100
Operator Cost/Hour:	$37.27	NA
Total Unit Cost/Hour:	$115.02	
Total Fleet Cost/Hour:	$115.02	

MATERIAL QUANTITIES

Initial volume: 2,100 CCY Swell factor: 1.000

Loose volume: **2,100** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

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

Basic Job Condition Description: AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.284 minutes

Load Bucket Capacity

Bucket Size Class: Large

Rated Capacity:	2.08	LCY (heaped)
Bucket Fill Factor:	0.825	Blasted rock - avg. blasted (75 - 90%) 0.825
Adjusted Capacity:	**1.72**	LCY

Job Condition Correction Factors

Site Altitude: 10800 feet

		Source
Altitude Adj:	0.83	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.69	multiplier

Unadjusted Hourly Unit Production:	362.54	LCY/Hour
Adjusted Hourly Unit Production:	249.75	LCY/Hour
Adjusted Hourly Fleet Production:	**249.75**	LCY/Hour

JOB TIME AND COST

Fleet size:	1	Excavator	Total job time:	**8.41**	Hours
Unit cost:	$0.461	/LCY	Total job cost:	**$967**	

BULLDOZER WORK

Task description: **Regrade waste rock pile**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #:	003A	State:	Colorado	Abbreviation:	None
Date:	5/8/2020	County:	Ouray	Filename:	M031-003a
User:	LJW				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL
Horsepower: 185
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$58.87	NA
Operating Cost/Hour:	$52.34	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.24	NA

Total unit Cost/Hour: $152.44
Total Fleet Cost/Hour: **$152.44**

MATERIAL QUANTITIES

Initial Volume: 2,100
Swell factor: 1.000
Loose volume: **2,100** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 75 feet
Unadjusted hourly production: 357.1 LCY/hr

Materials consistency description: Rock, avg. ripped or blasted 0.7

Average push gradient: -5 %
Average site altitude: 10,800 feet

Material weight: 3,300 lbs/LCY

Weight description: Decomposed rock - 75% Rock, 25% Earth

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	0.940	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2674

Adjusted unit production: 95.49 LCY/hr

Adjusted fleet production: **95.49** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $1.596/LCY

Total job time: **21.99** Hours
Total job cost: **$3,352**

HYDRAULIC EXCAVATOR WORK

Task description: **Distribute topsoil over waste rock dump**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #:	004A	State:	Colorado	Abbreviation:	None
Date:	5/8/2020	County:	Ouray	Filename:	M031-004a
User:	LJW				

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	Cat 320D L 9'-6" Stick	Horsepower:	148
Attachment 1:	ROPS Cab	Weight (MT):	21.55
		Shift Basis:	1 per day
		Data Source:	(CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$37.31	NA
Operating Cost/Hour:	$40.45	100
Operator Cost/Hour:	$37.27	NA
Total Unit Cost/Hour:	$115.02	
Total Fleet Cost/Hour:	$115.02	

MATERIAL QUANTITIES

Initial volume: 1,982 CCY Swell factor: 1.215

Loose volume: **2,408** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

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

Basic Job Condition Description: AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.284 minutes

Load Bucket Capacity

Bucket Size Class: Large

Rated Capacity:	2.08	LCY (heaped)
Bucket Fill Factor:	0.900	Other - soil, boulders, roots (80 -100%) 0.900
Adjusted Capacity:	**1.87**	LCY

Job Condition Correction Factors

Site Altitude: 10800 feet

		Source
Altitude Adj:	0.83	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.69	multiplier

Unadjusted Hourly Unit Production:	395.49	LCY/Hour
Adjusted Hourly Unit Production:	272.46	LCY/Hour
Adjusted Hourly Fleet Production:	**272.46**	LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: **8.84** Hours

Unit cost: $0.422 /LCY Total job cost: **$1,017**

BULLDOZER WORK

Task description: **Distribute topsoil over waste rock dump**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 004B
Date: 5/8/2020
User: LJW

State: Colorado
County: Ouray

Abbreviation: None
Filename: M031-004b

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL
Horsepower: 185
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$58.87	NA
Operating Cost/Hour:	$52.34	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.24	NA

Total unit Cost/Hour: $152.44
Total Fleet Cost/Hour: **$152.44**

MATERIAL QUANTITIES

Initial Volume: 1,982
Swell factor: 1.429
Loose volume: **2,831** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 75 feet
Unadjusted hourly production: 357.1 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 5 %
Average site altitude: 10,800 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.903	(CAT HB)
Altitude:	0.940	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7522

Adjusted unit production: 268.61 LCY/hr

Adjusted fleet production: **268.61** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: $0.568/LCY

Total job time: **10.54** Hours

Total job cost: **$1,607**

REVEGETATION WORK

Task description: **Revegetate Waste Rock Pile**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-005
User: LJW

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	2,000.00	pound	$0.46	$911.20
			Total Fertilizer Materials Cost/Acre	**$911.20**

Application

Description	Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)	$596.77
Total Fertilizer Application Cost/Acre	**$596.77**

TILLING

Description	Cost /Acre
	$
Total Tilling Cost/Acre	**$0.00**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Fringed Bromegrass - Native	3.33	6.12	$56.61
Aster, Azure	0.14	3.92	$10.93
Big Bluegrass - Sherman	2.50	51.65	$21.19
Canada Wildrye	6.00	15.84	$65.04
Mountain Brome - Bromar	21.00	33.75	$79.80
Rocky Mountain Fescue	2.97	47.73	$21.53
Columbine, Colorado	0.39	3.25	$60.45
Lupine, Silver	5.25	3.08	$367.37
Slender Wheatgrass - Native	21.00	76.65	$97.13

Flax, Lewis Blue	6.00	39.80	$99.00
Tufted Hairgrass	1.89	108.47	$20.84
Penstemon, Rocky Mountain	2.28	35.74	$67.26
Yarrow, White	0.06	3.82	$2.40
Bluebunch Wheatgrass - Goldar	6.00	19.28	$27.60
Goldeneye - Showy	1.56	17.91	$93.60
Totals Seed Mix	80.37	467.00	**$1,090.75**

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**
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

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: 0.78 Cost /Acre: $3,045.94
Estimated Failure Rate: 35% Cost /Acre*: $3,045.94
*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: **$2,375.83**
Reseeding Job Cost: **$831.54**
Total Job Cost: **$3,207**
Job Hours: **16.00**

HYDRAULIC EXCAVATOR WORK

Task description: **Distribute topsoil along side slopes of laydown area**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 006A State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-006a
User: LJW

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 320D L 9'-6" Stick
Attachment 1: ROPS Cab

Horsepower: 148
Weight (MT): 21.55
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$37.31	NA
Operating Cost/Hour:	$40.45	100
Operator Cost/Hour:	$37.27	NA
Total Unit Cost/Hour:	$115.02	

Total Fleet Cost/Hour: $115.02

MATERIAL QUANTITIES

Initial volume: 350 CCY Swell factor: 1.215
Loose volume: **425** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

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

Basic Job Condition Description: AVERAGE
Secondary Job Condition within Basic Description: AVERAGE
Cycle Time Value: 0.284 minutes

Load Bucket Capacity

Bucket Size Class: Large

Rated Capacity: 2.08 LCY (heaped)
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900
Adjusted Capacity: **1.87** LCY

Job Condition Correction Factors

Site Altitude: 10800 feet

		Source
Altitude Adj:	0.83	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.69	multiplier

Unadjusted Hourly Unit Production: 395.49 LCY/Hour
Adjusted Hourly Unit Production: 272.46 LCY/Hour
Adjusted Hourly Fleet Production: **272.46** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: **1.56** Hours

Unit cost: $0.422 /LCY Total job cost: **$180**

BULLDOZER WORK

Task description: **Distribute topsoil along side slopes of lay down area**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 006B
Date: 5/8/2020
User: LJW

State: Colorado
County: Ouray

Abbreviation: None
Filename: M031-006b

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T XL
Horsepower: 185
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$58.87	NA
Operating Cost/Hour:	$52.34	100
Ripper own. Cost/Hour:	$0.00	NA
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$41.24	NA

Total unit Cost/Hour: $152.44
Total Fleet Cost/Hour: **$152.44**

MATERIAL QUANTITIES

Initial Volume: 350
Swell factor: 1.215
Loose volume: **425** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 444.6 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 5 %
Average site altitude: 10,800 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

Job Condition Correction Factor Source

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.903	(CAT HB)
Altitude:	0.940	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5851

Adjusted unit production:	260.14 LCY/hr
Adjusted fleet production:	**260.14** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.586/LCY

Total job time: **1.63** Hours
Total job cost: **$249**

REVEGETATION WORK

Task description: **Seeding of Side slopes of Lay Down area**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 007 State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-007
User: LJW

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	2,000.00	pound	$0.46	$911.20
			Total Fertilizer Materials Cost/Acre	**$911.20**

Application

Description	Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)	$596.77
Total Fertilizer Application Cost/Acre	**$596.77**

TILLING

Description	Cost /Acre
	$
Total Tilling Cost/Acre	**$0.00**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Fringed Bromegrass - Native	3.33	6.12	$56.61
Aster, Azure	0.14	3.92	$10.93
Big Bluegrass - Sherman	2.50	51.65	$21.19
Canada Wildrye	6.00	15.84	$65.04
Mountain Brome - Bromar	21.00	33.75	$79.80
Rocky Mountain Fescue	2.97	47.73	$21.53
Columbine, Colorado	0.39	3.25	$60.45
Lupine, Silver	5.25	3.08	$367.37
Slender Wheatgrass - Native	21.00	76.65	$97.13

Flax, Lewis Blue	6.00	39.80	$99.00
Tufted Hairgrass	1.89	108.47	$20.84
Penstemon, Rocky Mountain	2.28	35.74	$67.26
Yarrow, White	0.06	3.82	$2.40
Bluebunch Wheatgrass - Goldar	6.00	19.28	$27.60
Goldeneye - Showy	1.56	17.91	$93.60
Totals Seed Mix	80.37	467.00	**$1,090.75**

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**
			$	$
Total Mulch Materials Cost/Acre				**$0.00**

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: 0.27 Cost /Acre: $3,045.94
Estimated Failure Rate: 35% Cost /Acre*: $3,045.94
*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: **$822.40**
Reseeding Job Cost: **$287.84**
Total Job Cost: **$1,110**
Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mobilization to and from the site**

Site: **Von Doose Mine** Permit Action: New Permit Permit/Job#: M2019031

PROJECT IDENTIFICATION

Task #: 008 State: Colorado Abbreviation: None
Date: 5/8/2020 County: Ouray Filename: M031-008
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:	$17.20	$29.63	$38.69
Operating Cost/Hour:	$26.56	$47.02	$55.69
Operator Cost/Hour:	$23.63	$23.63	$23.63
Helper Cost/Hour:	$0.00	$23.53	$23.53
Total Unit Cost/Hour:	$67.39	$123.81	$141.54

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 320D L 9'-6" Stick	23.70	$37.31	$67.39	1	$104.70	$67.39	$250.00
Cat D6T XL	23.25	$58.87	$67.39	1	$126.26	$67.39	$250.00
				Subtotals:	**$230.96**	**$134.78**	**$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, 3/4 T.	$12.96	1	$12.96	$12.96
		Subtotals:	**$12.96**	**$12.96**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	MONTROSE	
Total one-way travel distance:	46.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$2,073.70	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$21.68	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.84	0.84
Return Time (Hours):	0.84	0.84
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.67	1.67

JOB TIME AND COST

Total job time:	**5.35**	Hours
Total job cost:	**$2,095**	