J. E. STOVER & ASSOCIATES, INC.

2352 NORTH 7TH STREET, UNIT B GRAND JUNCTION, COLORADO 81501 PHONE: (970) 245-4101, FAX: (970) 242-7908

MINE ENGINEERING MINE RECLAMATION CIVIL ENGINEERING CONST. MANAGEMENT

March 21, 2022

Rob Zuber Division of Reclamation, Mining & Safety 1313 Sherman St., Room 215 Denver, CO 80203

Re: Bowie No. 2 Mine, Permit C-1996-083, Permit Renewal five (RN-05), Adequacy Response #1

Dear Mr. Zuber:

On behalf of Bowie Resources, LLC, enclosed is the response to DRMS' adequacy response number one, dated November 24, 2021.

1. **DRMS:** Please confirm the acreages in the application form, and explain any discrepancies with recent Annual Reclamation Reports (ARRs) or other documents related to this permit. For example, the area reclaimed in the previous permit period is quantified as 96.9 acres, but recent ARRs indicate fewer acres. Another example is the number of acres that have been bond released; the application indicates no acres have been released, however the application should reflect the acreages released by SL-01 and SL-02. After making revisions to the form, please mail a hard copy with an original signature to the Division office on Sherman Street (in addition to an electronic submittal of your entire response to this PAR).

BRL: The application form has been revised to reflect that shown in the most recent annual reclamation reports. Please see revised **page 3 from the ARR**.

PAP Text, Appendices and Maps

2. **DRMS:** <u>Vol I, Section 2.03.6</u> - In the adequacy response, please indicate if all right of entry and lease agreements are current. If they are not current, please update the PAP accordingly.

BRL: There are two revised Right of Entry documents to be inserted into **Volume III, Tab 1**. The first is between the Kevin M Keeling Revocable Trust and BRL and *replaces* the Turkey Track Surface Access and Use Agreement. The second right of Entry is between John H and Sandra J George and BRL and is for the parcel of land west of the train loadout and south of Bowie Road. There is a revision to the agreement between BRL and Wayside farms which changes the terms of the agreement. A Special Warranty Deed has been executed that allows BRL to maintain an easement along the existing access road to access the Union Pacific Rail Road but no longer includes use of the property for construction, operation and maintenance of the loadout. This Special Warranty Deed should be inserted into **Volume III, Tab 1**. Please also see revised **page 2.03-16**.

3. **DRMS:** Vol I, Section 2.04.11 - In the adequacy response, please indicate if the Threatened and Endangered Species discussion in this section (including the table of species) is based on current lists issued by the U.S. Fish and Wildlife Service and the Colorado Division of Parks and Wildlife (per Rule 2.04.11(4)). If it is not based on current lists, please check the current lists and update the PAP accordingly.

BRL: Since there has been no new disturbance since the most recent T&E report, a comparison between the T&E report in the PAP and a search in the FWS ECOS website shows that there have been no new species listed within the permit boundary. The Mexican Spotted Owl did show up on the report, however, upon further investigation, there is no critical habitat within the boundary. There is a new candidate species listed, which is the Monarch Butterfly, but it is not officially listed as an endangered species at this time.

4. **DRMS:** Vol II, Map 09 – The map legend (key) appears to be missing the symbols for the monitoring locations under Gob Pile #3. Please explain this or update the map. Also, it is recommended that BRL check that all symbols used on the map are included in the legend.

BRL: The vibrating wire piezometers (VWP) under Gob Pile #3 are not part of the hydrologic monitoring plan and do not belong on Map-09. The VWPs are for geotechnical monitoring purposed only.

5. **DRMS:** Vol III, Exhibit 8 – Pages 11 and 12 appear to have incorrect dates in the footer, and page 31 does not have "TR-122" in the footer. These pages should be revised.

BRL: Please see revised pages Exh. 8-11, 12 & 31

6. **DRMS:** Vol XI – Within the figure on page 4b, the typical section of the underdrain shows filter fabric above the rock and perforated pipe. Please clarify if this is accurate.

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Perhaps the fabric should be shown encircling the rock and pipe. If necessary, revise this figure.

BRL: The filter fabric wrap is intended to wrap the rock and act as a separator between the rock and dirt interface. No revisions necessary.

7. **DRMS:** Vol XI – Please clarify if Appendix A includes the additional coverfill material that BRL salvaged in 2020. If not, the table should be revised.

BRL: Please see revised Volume XI Appendix A.

Stipulations

8. **DRMS:** Please clarify the status of the wells discussed in Stipulation 43, 2015-1B and 2015-1SS. The stipulation states that these wells will be drilled in 2015. If they were never drilled or if other changes to the stipulation should be made, this stipulation will need to be updated. The process for this update will be determined by discussion between BRL and the Division.

BRL: The findings and compliance dated November 20, 2017 for permit renewal 4 added to the following discussion about stipulation no. 43: "This stipulation is categorized as Future/Ongoing. The Spruce Stomp Lease Area has not been affected by mining activities due to BRL not obtaining right of entry for the area."

DRMS: Attached to this letter is a summary from an update of the Reclamation Cost Estimate for the Bowie No. 2 Mine. Please let me know if you would like to review the entire estimate. The updated liability is \$11,798,961. The active corporate surety for this site is \$10,971,057.58, and additional surety will be needed, per our estimate. We can discuss this more in the near future or after this permit renewal is approved by the Division (following the adequacy process).

BRL: BRL has gone through the reclamation estimate prepared by DRMS as part of the RN-05 adequacy process. Please understand, the Operator is not questioning the overall escalation as that is a normal part of bonding and understands that year by year costs may require adjustments. *The intent of this exercise is to evaluate and compare tasks to ensure consistency throughout, and where applicable, propose changes*. BRL has suggested evaluating hourly rates used in CIRCES to make them more comparable to local contractor rates, but is not questioning why the hourly rates themselves have increased in the last five years.

BRL would like to request a conference call with DRMS to explain, in detail the work that has been done, and answer any questions that may arise. In addition, BRL can submit a red-line

Rob Zuber

reclamation estimate demonstrating what changes we are suggesting in relation to each individual Task. A red-lined copy may be the clearest way to communicate the changes being proposed, so please let us know if this would be useful.

Attached to this review is an excel spreadsheet breakdown by equipment type and proposed changes for each, as well as two local contractor rate sheets. The spreadsheet and contractor rate sheets are for review purposes only and not intended to be part of the PAP.

General Questions/Comments:

1. The % swell is inconsistent not only in its amount but also when it is applied. The Operator proposes the swell factor be eliminated.

When the bond was originally written the quantity of soil to be moved was determined and variables considered. The quantities of soil within the bond are rounded numbers since BRL understands that the handling of soils during reclamation is not an exact science. The number provided allows for the quantity of soil anticipated to be handled during the action designated in the bonding tasks. Additional quantities being added by applying a swell % are not necessary.

Consider also that the soil/material being moved is compacted as it lies thus when it is collected and loaded, it remains the same, i.e. 3 CY on the ground, 3 CY is placed in the truck to be hauled. The same 3 CY are unloaded.

- 2. Please remove the Chisel plow from Tasks 150 & 154 as they are not necessary.
- 3. A CAT D10T-10SU comes standard from a CAT dealer/manufacturer with a ripper shank attached. The ripper ownership and operation cost should be removed from the following tasks referenced on page 5.
- 4. The average push distance for tasks listed on page 3 should be changed to a consistent to 100 feet. The average push distance is used as part of a calculation by the CIRCES software, the various amounts throughout the bond do not reflect the correct information for the use of the specified equipment at each task location. The designation of 100 feet can be universally applied to the equipment and the task it performs without having to consider the variables.
- 5. The discussion of job correction factor is shown on page 4, and should be revised down from 0.83 to 0.52. The two changes made to the equation are the "Operator Skill", and "Job Efficiency". The Operator submits that contractors in the area are above average with at least 10-years reclamation experience, and should be considered as such for calculation purposes (change from 0.75 to 0.85). In regards to the Job Efficiency factor, the Operator recommends that it should be changed from 0.83,

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which is 50 minutes of every hour being worked, to 0.85, which is 51 minutes of every hour being worked.

 The TRUCK1 tasks within the bond include a Truck and Loader combination. The majority of the payload capacity amounts are consistent except for Tasks 27, 40 and 75. These tasks need to be revised to match the other information in the other TRUCK1 tasks.

The Truck Bed Volume needs to be made consistent for Task 14 with Task1. The Final Truck Volume needs to be made consistent in Tasks 27, 40, 45, 45B, 45C, 45D and 45E.

Loading Tool Capacity in Task 40 need to match Task 45.

According to the CAT Handbook the soils being designated in the CIRCES Software tasks have a Bucket Fill Factor of 1, therefore all Bucket Fill Factor's throughout the task calculations should be 1.

Altitudes within the site fall within a specified range listed in the CAT Handbook for the CAT Equipment specified in the bond and should be 1 throughout the tasks.

The distance a Scraper will be required to haul material needs to be revised for Tasks 13, 42, 43, 46, 71, 73, 80, 110, 111, 112, 113, 115, 121, 123, 124, 125, and 127. The revised distances presented on page 5 have been rounded to the nearest foot.

8. DRMS provided the name of the company used to determine Equipment rates which is Everwatch Equipment which appears to be a nationwide company. The rates used in the reclamation estimate are far too high for the local area. Please see the attached cost sheets from two local contractors. Both of these contractors have worked for Bowie and other coal mines in the area. In addition, the hourly rate for the local contractors is a total cost. Hourly rates listed on individual task sheets are not a total cost, they are also subject to the additional 10% Profit. Please consider lowering the hourly rates to be more in line with local contractor rates. For example,

9.

Task Nos. 14, 22:

Truck/Loader combo = \$736.74/hour

Local contractor charges 155/hour for a haul truck and 160 for the loader for a total of 315/hour.

10. Task Nos. 39 & 41: Compacted thickness listed as 8" and 10" respectively. The Rules allow for compaction at two-foot intervals on gob piles. Why is the Division using such small lifts?

- 11. Task No. 261 "Backfill shaft" lists the closure method of 6900 cy of backfilling to be done by hand. How can a shaft be backfilled by hand?
- 12. Task No. 140. 75 CFR 1711-2 only requires 25' of non-combustible material to seal a portal. Therefore, TR-123 has been submitted to specify only 25' of fill be required to seal the portals, and to remove the bulkhead requirement.
- 13. For task 157, where does 838 acres come from?
- 14. For Task 47, the visibility factor is shown as 0.8 in the net correction table and should be changed to 1.0.
- 15. For Task 45, the altitude adjustment is shown as 0.96, it should be changed to 1.0.
- 16. Task 093 needs to have the Total area changed to 78.6 acres.
- 17. Task 165 is Demolition Work, with the following changes being suggested to provide consistency throughout the task.

Contact with salvage companies verified that tanks hauled for disposal would be taken as is, since no salvage value is being accessed and no compensation will be exchanged. Thus, bonding for sludge collection, disposal and filling the tank with CO2 are not necessary.

The structures, floor and footing will have on-site/in-place disposal, without being hauled to an excavated pit as currently specified. Thus, the reference under the heading Demolition Menu Selection needs to be revised removing reference to haul distance (Max. 10,000 ft. haul) and reference to "in excavated pit". In addition, Max. 200 ft. push needs to be removed. The location adjustment of 2.2% should not apply to these adjustments, because the demolished rubble will be buried in the immediate area and will not change locations.

Various dimensions have been updated to be more specific.

Unit costs have been made consistent throughout the task. Unit costs appear to correspond with RS Means Catalog numbers, therefore places where unit costs were missing or appeared to be too low or too high, RS Means numbers were substituted and the number referenced.

As required by EPA and State regulation the hazardous waste has been removed regularly from the site, thus it should not be included in the bond.

Examples of various changes have been provided on page 7 of the attached

information.

Please let me know if you have any questions.

Sincerely,

Tamme Bíshop

Tamme Bishop, P.E. Project Engineer

Enclosures:

ARR:	Page 3
Volume I:	Page 2.03-16
Volume III:	Pages Exh. 8-11,12 & 31, Surface Accuse and Use Agreement(s) Tab 1 (Two documents
	 John and Sandra George SUA, and Keeling Revocable Trust SUA), Special Warranty
	Deed between Wayside Farms and BRL.
Volume XI:	Appendix A

Enclosures for review purposes only:

Tribble & Sons
Rate Sheet – Con-Sy Construction
Reclamation Review Spreadsheet

Cc via email: Basil Bear, Bowie Resources, LLC Vicky Miller, Wolverine Fuels, LLC General Description (Miles and direction from nearest town and approximate elevation):

	Permitted	Actual	Proposed
. Mineral ownership: Indicate currently permitted acreage for each			
Federal: acres			
State: acres			
Private: acres			
Indian: acres			
. Surface ownership: Indicate currently permitted acreage for each			
Federal: acres			
State:acres			
Private: acres			
Indian: acres			
0. Affected area (in acres)			
1. Disturbed area (in acres)			
2. Acreage of area reclaimed in previous permit term			
A. Backfilled and graded	N/A		N/A
B. Retopsoiled	N/A		N/A
C. Reseeded	N/A		N/A
3. Acreage for which bond has been released			
A. 60 percent	N/A		N/A
B. 85 percent	N/A		N/A
C. 100 percent	N/A		N/A
4. Renewal Term Requested (Years)	N/A	N/A	

Type of Mine (Check one): ___ Underground ___ Combined Surface and Underground __ Loadout __ Other <u> Surface</u> 15.

VOLUME I

a.k.a. Rose Marie Fraizer) and Robert Barnes have granted the Operator the right to use and easement along the existing access road to access the Union Pacific Rail Road. The special warranty Deed is presented in Volume III, Tab 1. The Wayside Farm and Cattle Company is now owned by Norton Seybert Colorado Holdings, LLC.

Through a Surface Access Agreement dated December 8th, 2017, Kevin M Keeling Revocable Trust granted the Operator permission to enter upon their lands and perform activities necessary to support the Operator's coal mining operation. The Memorandum of Surface Access Agreement is presented in Volume III, Tab 1.

Through a Surface Access Agreement dated April 3rd, 2019, John and Sandra George granted the Operator permission to enter upon their lands and perform activities necessary to support the Operators coal mining operation. The Memorandum of Surface Access Agreement is presented in Volume III, Tab1.

Through a Surface Access Agreement dated October 27, 2011, Tamara Burdzinski aka Tamara Morrell granted the Operator permission to enter upon their lands and perform activities necessary to support the Operator's coal mining operation. The Memorandum of Surface Access Agreement is presented in Volume III, Tab 1.

- (2) Not applicable to an underground mine.
- (3) No response required.

2.03.7 Relationships to Areas Designated Unsuitable for Mining

- (1) The permit area is not within an area designated unsuitable for surface mining activities as defined in Rule 7 or 30 CFR 764 and 765, or under study for designation in an administrative proceeding under Rule 7 or 30 CFR 764 and 765.
- (2) No response required. Not applicable.
- (3) There are no occupied dwellings within 300 feet measured horizontally of the surface operations or facilities.

VOLUME III

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Ditch D-D2

Ditch D-D2 is formed when the flow from ditch D-D1 and ditch D-E1 join below sediment pond C. From the intersection of the two flows the ditch becomes a V-Ditch that must be capable of handling the combined flow from the two ditches.

Ditches D1, D2, Culvert D1, Drainage area E, and Ditch E-1 have been incorporated into Volume XI

** SEE DESIGN BEGINNING ON PAGE VOLUME XI, APP. B-29

Culvert C-D1, D2 & E1

** SEE DESIGN BEGINNING ON PAGE VOLUME XI, APP. B-41

Culvert C-E1

Culvert C-E1 was deleted from the design Jan. 1998

~~~~~~		Culvert Summary	anu wiin		quirentei		Minimum	
						Maximum		
		Drainaga ar C	ulvort Con	tributing Flow		Flow	Culvert Inches	
Culuanta	0.04	Ditch B1	uivert Con 1.88	tributing Flow		CFS	Inches 12	
Culverts	C-B1 C-B2	Deleted from Desig				1.88	12	
	C-B2 C-B3	Drainage Area	0.67			0.67	12	
	C-B4	Deleted from Desig				0.07	<b>۲</b> ۲	
	C-B5	Deleted from Desig						
	C-B6	Deleted from Desig						
	C-B7	Ditch B9		Ditch B8	0.67	0.91	12	
	C-B8	Ditch B10	1.17	Diton Do	0.07	1.17	12	
	C-B9	Ditch B12		Ditch B36	0.16	1.78		
	C-B10	Deleted from Desig		Ditoli Doo	0.110			
	C-B11	Ditch B15				3.56	18	
	C-B12	Drainage Area		Ditch B20	0.55	2.31	18	
	C-B13	Ditch B37	0.42			0.42	12	
	C-B14	Ditch B16	4.44			4.44	18	
	C-B15	Ditch B21	7.69	Ditch B24	2.63		24	Note
	C-B16	Ditch B23	10.71			10.71		Note
	C-B17	Ditch B-19		Ditch B-26	0.45	6.91	24	
	C-B18	Ditch B27 & 32		Ditch B22	0.45	1.69	12	
	C-B19	Culvert B18		Culvert B16	10.71		24	
	C-B20	Deleted from Desig				0.00		
	C-B21	Drainage Area B - 2		ent		22.43	36	
	C-B22	Ditch B15	3.56			3.56	18	
	C-B23	Ditch B16	4.44			4.44	18	
	C-B24	Ditch B13	0.78			0.78	10	
	C-B25	Ditch B35	0.82			0.82	12	
	C-B26	Ditch B25	0.64			0.64	12	
	C-B27	Culvert B19	12.40			12.40	24	
	C-B28	Ditch B29	13.33			13.33	30	
	C-B29	Pond B/C Diversion	~~~~~~			0.00		Note
Culverts	~~~~~	Ditch C1	1.42			1.42	10	{~~~~~
	C-C2	Deleted from Desig				0.00	12	
	C-C3	Ditch C2	1.46			1.46	12	
	C-C4	Ditch C4	6.38			6.38	24	
	C-C5	Culvert C13		Culvert C4	6.38	17.95	30	
*****	C-C6	Deleted from Desig		ourron o	0.00			
*****	C-C7	Ditch C8				33.95	36	
	C-C8	Drainage Area	0.09			0.09	12	
	C-C9	Deleted from Desig				0.00	12	
	C-C10	Ditch C15	0.75			0.75	12	
	C-C11	Ditch C12	6.84			6.84		Note
	C-C12	Ditch C17		Ditch C24	6.84	8.17		Note
	C-C13	Drainage Area D-C				11.57	24	
	C-C14	Ditch C12	6.84			6.84		Note
	C-C15	Ditch C21		Ditch C22	8.87	9.89		Note
	C-C16	Ditch C18	8.50		0.07	8.50		Note
	C-C17	Ditch C19	0.29			0.29	12	
	C-C18	Deleted from Desig				0.20		
	C-C19	Ditch C17	 1.33			1.33	12	
	C-C20	Ditch C11	37.54			37.54	36	
	C-C21	Ditch C-C20	0.93			0.93	12	
	C-C22	Drainage Area	0.93			0.93	12	
	C-C23	Drainage Area	0.23			0.23	12	
	C-C24	Ditch C1	1.42			1.42	12	han an a
	C-C25	Mine Water	0.50			0.50	12	han an a
	C-C26	Drainage Area	1.66			1.66	36*	
	C-C20	Ditch B3	0.43			0.43	12	
Culverts		SEE DESIGN BEG			EXI B-41	0.45	12	
Carvents	C-D1 C-D2	SEE DESIGN BEG						
	C-E1	Ditch E-1	0.00		, D-+2	0.00	12	
	C-G1	Deleted from design				0.00	۲۲	
	C-G2	Ditch D-D4	0.42			0.42	12	
	C-G3	Ditch D-D3 & D6	1.07			1.07	24	
	C-G4	Ditch D-5	0.86			1.07	12	
	C-G5	Culvert D-1	9.70			9.70	36	
	C-G6	Pond C Primary Dis				0.72	12	
						52		
	C-H1	Ditch H1	2.57			23.73	36**	
	· ·	CW Ditch		Ponds C& D Dis	charge	12.37		
			, <b>v</b>		<b>J</b> .			
	"J" Culve	rt designs located in \	/olume XI.	Appendix B				
		place, design of C-26			be installed	l		[
		place, design of C-H1						
		-						
	C-K1	Ditch K1	0.46	Ditch K2	0.97	1.43	12	
	C-K2	Ditch K3	1.70			1.70	12	
	C-K3	Wash down water	1.00			1.00	24	
	C-L1	Deleted from design	٦.					
Culverts	SAE1	Deleted from design	٦.					
	SAE2	Deleted from design						
Note 1		ions must conform to						
Note 2		ch culvert will handle 1		a HW/D ratio of 2	2.0. If an 1	8-inch culve	rt is to	
		assure rock headwall						
Note 3		C-B19, B20,B21 & SA						
		ir of these culverts is t				, ivia		
Note 4		29 is the Pond B/C di				ed to C-R20		
		ng times when mainte						·

## SURFACE USE and ACCESS AGREEMENT

This Surface Use and Access Agreement ("Agreement"), dated effective this <u></u>day of April 2019, is made by and between John H. and Sandra J. George, with an address of 16118 Farmers Mine Rd, Paonia, CO 81428 ("Grantor"), and Bowie Resources, LLC, a Delaware limited liability company, with an address at 1401 North 1st St., Suite A, Grand Junction, CO 81501 ("Grantee")

## Recitals

WHEREAS, Grantee owns and operates certain industrial facilities in Delta County, Colorado which are serviced by a rail road siding located upon Grantor's property.

WHEREAS, Grantor owns certain private property in Delta County, Colorado as further described on **Exhibit A** attached hereto, (the "Property") a portion of which contains Grantee's permitted rail road siding and associated facilities (the "Permitted Area").

WHEREAS, Grantor is willing to permit Grantee access to perform all necessary surface operations associated with the operation and use of the Permitted Area subject to the terms and conditions described herein.

## Agreement

NOW, THEREFORE, in consideration of the mutual promises, terms and conditions herein, the receipt and sufficiency whereof are acknowledged by each of the parties hereto, it is agreed as follows:

## 1. Allowed Uses and Restrictions.

(a) Grantee, its employees, agents and contractors, and their respective successors and assigns, have permission to enter upon and through the Property, together with the right to occupy and use the Permitted Area in conjunction with the continued operation of Grantee's industrial site and to perform reclamation or repairs to the Permitted Area as set forth in any applicable permit or regulation.

(b) Prior to commencing any new building construction on the Property, Grantee shall obtain the written consent of Grantor, which shall not be unreasonably withheld, conditioned or delayed.

(c) Grantee at all times will fully and promptly comply with all applicable laws, permits, rules and regulations of any lawful governmental authority which apply to its use of the Permitted Area for the hereinabove stated purposes;

<u>2. Term.</u> The term of this Agreement shall commence on the effective date hereof, and shall continue for so long as the Permitted Area is incorporated with the State of Colorado Department of Reclamation, Mining and Safety Permit C-1996-083, unless terminated earlier by

Grantee for any reason upon thirty (30) days' prior written notice to Grantor, upon which Grantee shall thereafter shall be released and relieved from any and all further liability hereunder, except as otherwise incurred prior to termination of this Agreement.

<u>3. Waste.</u> Grantee shall not commit or knowingly allow another to commit any waste or nuisance upon the Property. Grantee shall not destroy, deface or damage any part of the improvements on the Property or knowingly permit any other person to do so.

<u>4. Encumbrances.</u> Grantee shall keep the Property free and clear of any and all liens and encumbrances arising or which might arise, for any reason, out of Grantee's use of the Permitted Area.

5. Further Assurances. Grantor, at the request of Grantee, shall execute and deliver to Grantee any available instruments, agreements, documents, permits or applications, or any other papers reasonably required by Grantee, and Grantor shall do such other acts as may be reasonably requested by Grantee, all to effect the purposes of this Agreement. Conversely, Grantee, at the request of Grantor, shall execute and deliver to Grantor any available instruments, agreements, documents, permits or applications, or any other papers reasonably required by Grantor, and Grantee shall do such other acts as may be reasonably requested by Grantor, all to effect the purposes of this Agreement. Grantor agrees to support Grantee's efforts to obtain any necessary federal, state, and local governmental agencies approval of any leases, NEPA actions, permits, licenses, and any other agreements with landowners, water rights owners, and water users associations in conjunction with Grantee's coal mining operations and/or reclamation activities, or in conjunction with any industrial use of Permitted Area (by Grantee or any successor or assign of Grantee). Grantor, including all heirs, agents, assigns, tenants and occupants of the Property, shall not oppose any of Grantee's permitting activities, including reclamation activities, on or adjacent to the Property and the Permitted Area.

<u>6. Amendment.</u> This Agreement may be amended only by a written amendment executed by both parties.

<u>7. Notices.</u> All notices shall be given (i) by personal delivery, or (ii) by electronic communication, capable of producing a printed transmission, or (iii) by registered or certified mail return receipt requested; or (iv) by overnight or other express courier service. Notices shall be effective and shall be deemed given on the date of receipt at the principal address if received during normal business hours, and, if not received during normal business hours, on the next business day following receipt. Any party may change its address by written notice to the other party.

If to Grantor: John and Sandra George 16118 Farmers Mine Rd Paonia, CO 81428 Phone: (970) 208-3515 Fax: (970) 527-3218 If to Grantee

Bowie Resources, LLC Attn: Land Department 1401 N 1st St., Suite A Grand Junction, CO 81501 Phone: (970) 852-0110 Fax: (970) 263-5161 Email: rwilson@wolverinefuels.com <u>8. Entire Agreement.</u> This instrument constitutes the entire agreement and understanding between the parties hereto, and all parties executing this instrument have received a copy of the same.

<u>9. Recordation.</u> This Agreement shall not be recorded. The parties shall execute a Memorandum of Surface Access for the purpose of recording in the records of Delta County, Colorado.

<u>10. Governing Law.</u> This Agreement shall be construed in accordance with and governed by the laws of the State of Colorado. Each party hereto consents to the jurisdiction of any appropriate court in the State of Colorado in the event there is a dispute or disagreement arising out of this Agreement. Except as otherwise provided in this Agreement, the parties shall be entitled to any and all remedies provided by law.

<u>11. Binding Effect.</u> All the terms, conditions and covenants of this Agreement shall be binding upon and shall inure to the benefit of the successors and assigns, respectively, of each party hereto.

**IN WITNESS WHEREOF**, Grantor and Grantee have executed this Surface Use and Access Agreement in duplicate effective the date first above written.

John H. George

Sandra J. George

**Bowie Resources, LLC** 

Brian S. Settles Chief Administrative Officer and General Counsel

By:

## EXHIBIT A Legal Description

## Parcel 318715400014

A part of the SW¹/₄SE¹/₄ of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, described as follows: Beginning at the Northwest corner of said SW¹/₄SE¹/₄; thence South, along the West line of said SW¹/₄SE¹/₄, a distance of 60 rods; thence due East, 20 rods, thence Northeasterly to the Northeast corner of said SW¹/₄SE¹/₄; thence West, along the North line of said SW¹/₄SE¹/₄, a distance of 80 rods, more or less, to the point of beginning.

## Also,

1

All that part of the NW¼SE¼ of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, lying Southerly and Easterly of the Southerly right of way of the Denver and Rio Grande Western Railway Company

EXCEPT that portion deed by Quit Claim Deed recorded November 4, 1985 in Book 541 at Page 367 by deed recorded August 9,1989 in Book 632 at Page 162.

## Parcel 318715300009

Beginning at a point on the South line of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, 739 feet East of the Southwest corner of thereof; thence East on said South line 415 feet; thence North 20°38' West 542 feet to the intersection of the East line of the right of way of the Denver and Rio Grande Railroad; thence in a Southwesterly direction along the East line of said right of way to point of beginning.

Together with a road right of way 30 feet in width along the East boundary of the following described property: Part of the SW¼SW¼ of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian more particularly described as follows: Beginning at a point on the South right of way line of Highway No. 133 whence the Southwest corner of said Section 15 bears South 18°05' West 616.9 feet; thence North 7°18' East 47.3 feet; thence along the arc of a curve to the right 205.7 feet, with a radius of 211.5 feet and whose long chord is North 34°53' East 197.7 feet; thence North 62°55 East 566 feet; thence leaving said Highway South 3°18' East 433.2 feet; thence South 3°20' East 101.3 feet to the Northerly right of way of the Denver and Rio Grande Railroad as described in deed recorded in Book 53 at Page 313; thence along said railroad along the arc of an curve to the left 344.1 feet, with a radius of 711.3 feet and whose long chord is South 33°50' West 340.7 feet; thence leaving said railroad right of way North 52°59' West 582.0 feet to the point of beginning.

## **EXHIBIT A** (continued)

## Parcel 318715300010

A parcel located in the S¹/₂SW¹/₄ of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian having bearings based on GLO bearing of N°06 East, between GLO Brass Caps marking the SW corner and the W¼ corners respectively of said Section 15, with all other bearings relative thereto, and described as follows: Beginning at a point on the South line of said Section 15, from which the SW corner bears North 88°53'48" West 1154.0 feet; thence running North 20°38' West 516.97 feet, more or less, to the South R.O.W. line of the D&RGW R.R. Co at a point in a curve; thence following the R.O.W. along a curve to the right, said curve ending at a point which bears North 55°10'20" East 211.64 feet; thence continuing along said R.O.W. line North 71°29' East 903.7 feet to Sta. 1972+30 at which point the R.O.W. changes from a 75 foot half width to a 50 foot width; thence North 18°31' West 25.0 feet along said station line; thence North 71°29' East 658.0 feet more or less, to the North-South centerline of Section 15; thence leaving said R.O.W. and following said centerline South 0°16'47" East 1152.65 feet to a point in the North Fork River which is the S¼ corner of said Section 15, marked by Witness Corner on Line 396.03 feet North 0°16'47" West, from said corner: thence following the South line of said Section 15 North 88°53'48" West 1470.42 feet to the Point of Beginning. EXCEPT that part as conveyed to the State Department of Highways in Deed recorded November 5, 1990 in Book 665 at Page 533 described as follows: A tract of land beginning at a point from which the SW corner of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, a GLO brass cap monument, bears South 86°31'00" West, a distance of 2,289.85 feet; thence North 68°40'20" East, a distance of 368.85 feet to the East property line of that parcel described by Book 525 at Page 643 of the Delta County records; thence North 0°12'10" East, along said East line 173.22 feet: thence South 68°40'20" West, a distance of 435.22 feet; thence South 71°36'30" West, a distance of 1,076.46 feet to the intersection with the South line of said Section 15; thence South 87°33'30" East, along the South line, a distance of 599.11 feet; thence North 65°48'40" East, a distance of 527 feet, more or less, to the Point of Beginning. ALSO EXCEPT that part conveyed into the State Department of Highways in Deed recorded November 5, 1990 in Book 665 at Page 535 described as follows: A tract of land beginning at a point from which the SW corner of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, a GLO brass cap monument, bears South 86°31'00" West, a distance of 2,289.85 feet; thence South 65°48'40" West, 527.41 feet to the intersection with the South line of the SE¼SW¼, Section 15; thence South 87°33'30" East, along said South line 817.34 feet to the intersection with the East property line of that parcel described in Book 525 at Page 643 of the Delta County records; thence North 01°12'10" East along said East line 385.16 feet; thence South 68°40'20" West, 368.84 feet, more or less, to the Point of Beginning.

Delta County, State of Colorado

#### SPECIAL WARRANTY DEED

THIS DEED is dated December 14, 2018, and is made between Bowie Resources, LLC, a Delaware limited liability company (whether one, or more than one), the "Grantor", of the County of _____ and State of ______, and Kirk Morgan and Sarah Morgan, as joint tenants (whether one, or more than one), the "Grantee," whose legal address is ______ of

the County of Delta and State of Colorado.

WITNESS, that the Grantor, for and in consideration of the sum of Twenty eight thousand and no/100ths---DOLLARS, (\$28,000.00), the receipt and sufficiency of which is hereby acknowledged, hereby grants, bargains, sells, conveys and confirms unto the Grantee and the Grantee's heirs and assigns forever, all the real property, together with any improvements thereon, located in the described as follows:

Part of the SW1/2SW1/2 of Section 15, Township 13 South, Range 91 West of the 6th Principal Meridian, more particularly described as follows:

Beginning at a point on the South right of way line of Highway No. 133 whence the Southwest corner of said Section 15 bears South 19°05 West 616.9 feet; thence North 7°18 East 47.3 feet; thence along the arc of a curve to the right 205.7 feet, with a radius of 211.5 feet and whose long chord is North 34°53 East 197.7 feet; thence North 62°55' East 566.0 feet; thence leaving said highway South 3°17' East 433.2 feet; thence South 3°20 East 101.2 feet to the Northerly right of way of the Denver and Rio Grande Railroad as described in deed recorded in Book 53 at Page 313; thence along said railroad along the arc of a curve to the left 344.1 feet, with a radius of 711.3 feet and whose long chord is South 33°50 West 340.7 feet; thence leaving said railroad right of way North 52°59 West 582.0 feet to the point of beginning.

Delta County, State of Colorado

Grantor shall retain an easement along the existing access road to access the Union Pacific Rail Road.

also known by street address as: vacant ground, Paonia, Co 81428 and assessor's schedule or parcel number: R023167

TOGETHER with all and singular the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues and profits thereof, and all the estate, right, title, interest, claim and demand whatsoever of the Grantor, either in law or equity, of, in and to the above bargained premises, with the hereditaments and appurtenances;

TO HAVE AND TO HOLD the said premises above bargained and described, with the appurtenances, unto the Grantee and the Grantee's heirs and assigns forever. The Grantor, for the Grantor and the Grantor's heirs and assigns, does covenant and agree that the Grantor shall and will WARRANT THE TITLE AND DEFEND the above described premises, *but not any adjoining vacated street or alley*, if any, in the quiet and peaceable possession of the Grantee and the heirs and assigns of the Grantee, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor except and subject to:  $\Box$  none; or  $\boxtimes$  the following matters:

Taxes and assessments for the current year and subsequent years and those specific exceptions described by reference to recorded documents as reflected in the Title Documents accepted by the Buyer in accordance with Section 8.1 ("Title Review") of the contract between the parties hereto for the sale and purchase of the herein described property

No. 16. Rev. 10-09. SPECIAL WARRANTY DEED (Page 1 of 2) Bradford Publishing Co., 1743 Wazee St., Denver, CO 80202 - 303-292-2590 - www.bradfordpublishing.com - cForm IN WITNESS WHEREOF, the Grantor has executed this deed on the date set forth above.

Bowie Resources, LLC, a Delaware limited liability company BY: Brian S. Settles, Chief Administrative Officer STATE OF ntull > Jetterson County of th The foregoing instrument was acknowledged before me this <u>171</u> day of <u>December</u>, 20 Brian S. Settles. Chief Administrative Officer of Bowie Resources, LLC, a Delaware limited liability , 2018, by company Witness my hand and official seal. Notary Public My commission expires: 7/23/22 Name and Address of Person Creating Newly Created Legal Description (§38-35-106.5, C.R.S.)

No. 16. Rev. 12-09. SPECIAL WARRANTY DEED (Page 2 of 2)

#### SURFACE ACCESS AND USE AGREEMENT

This Surface Access and Use Agreement ("Agreement"), dated effective this  $\underline{\mathscr{S}}$  day of December 2017, is made by and between Kevin M. Keeling and Melanie J. Keeling, or their successors as Co-Trustees of KEVIN M. KEELING REVOCABLE TRUST AGREEMENT, dated April 20, 2007, with an address of PO Box 326, Monett, MO 65708 ("Grantor"), and Bowie Resources, LLC, a Delaware limited liability company, with an address at 225 North 5th St, Suite 900, Grand Junction, CO 81501 ("Grantee")

### **Recitals**

WHEREAS, Grantor owns certain private property in Delta County, Colorado in the vicinity of Stevens Gulch Road, as shown in Attachment A (property map) and as described as follows, hereinafter referred to as "the Lands":

A tract of land located in Sections 5, 6, 7, 8, 17, 18 and 19 of Township 13 South, Range 91 West of the 6th P.M. and in Sections 1, 11, 12, 13 and 14 of Township 13 South, Range 92 West of the 6th P.M., more particularly described in the deeds recorded at Reception Numbers: 700035 and 700033 of the Delta County Clerk and Recorder's records.

WHEREAS, Grantee owns and operates an underground coal mine in Delta County, Colorado adjacent to and underlying the Lands.

WHEREAS, Grantor is willing to permit Grantee to perform all necessary surface operations associated with active coal leases on the Lands subject to the terms and conditions described herein.

#### <u>Agreement</u>

NOW, THEREFORE, in consideration of the mutual promises, terms and conditions, the receipt and sufficiency whereof are acknowledged by each of the parties hereto, it is agreed as follows:

## 1. Allowed Uses and Restrictions.

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**RN-05** 

(a) Grantee, its employees, agents and contractors, have permission to enter upon and through the Lands, together with the right to construct, maintain and use on or within the Lands all equipment installed on the Lands, for the following purposes:

i. to survey, place markers, do future surveying and monitoring of actual or potential surface effects reasonably related to Grantee's mining operation below the Lands, and to do the restoration or repair of surface effects on the Lands resulting from said activities;

ii. to explore or vent mine gases by constructing drill sites and access roads and installing drill holes at such site(s) and in such manner mutually agreed to by both Grantor and Grantee, such agreement not to be unreasonably withheld; and,

iii. to conduct other activities related to gathering baseline data as may be necessary or required to fulfill all permitting, leasing, and reclamation requirements.

iv. to perform reclamation or repairs as necessary to any roadways, drill sites, or monitoring sites to the standards set forth in any applicable permit or regulation.

v. to perform Grantee's reclamation and monitoring obligations with respect to the Land under the Colorado Surface Coal Mining Reclamation Act, C.R.S. 34-33-101, et. seq. (the "Act") and associated regulations, Grantee's permit(s) issued under the Act, and any orders of the Office of Mined Land Reclamation within the Division of Reclamation Mining and Safety ("DRMS") or the Colorado Mined Land Reclamation Board ("MLRB"), as such obligations now exist or may later be modified, including the right to bring all equipment, supplies, and personnel onto the Land which may be necessary or convenient to perform such reclamation and monitoring activities.

(b) Prior to commencing any new surface disturbance, including drill sites and access roads. Grantee shall obtain written consent of Grantor. Where possible, site selection and road routes will be mutually agreed to by both Grantor and Grantee.

(c) Grantee at all times will fully and promptly comply with all applicable laws, permits, rules and regulations of any lawful governmental authority which apply to its use of the Lands for the hereinabove stated purposes;

(d) Operations During Archery, Muzzleloading, and Rifle Big Game Hunting Seasons. Grantee understands that Grantor is concerned that Grantee's operations and activities under this agreement will interfere with or negatively impact Grantor's use of the Lands for wildlife habitat improvement and for hunting by Grantor and Grantor's agents, guests and invitees during the above mentioned hunting seasons as established from time to time by Colorado Parks and Wildlife. Grantee agrees that, when reasonable¹ to do so, Grantee's rights of access and use of the Lands under this paragraph 1 shall be subject to the following provisions: To the extent not otherwise required by law, the terms of its permit(s) under the Act, the lawful orders of DRMS, MLRB, or other legal authority, or as necessary to protect public health, safety, and welfare, Grantee will schedule such operations and activities to take place on the Lands at times which do not fall within designated hunting seasons that Grantor, and Grantor's agents, guests and invitees have valid hunting permits for during the months of September, October, and November of each year during the term of this Agreement; and Grantee shall coordinate such activities with Grantor so as to minimize the impact of said inspection on Grantor's hunting and/or Grantor's wildlife habitat improvement activities.

(e) Grantee agrees that its access to the Lands is limited to its employees and contractors, and that this Agreement does not grant to Grantee the right to use the Lands for any purpose other than those specified herein. No firearms, crossbows, other weapons, pets, illegal drugs, alcoholic beverages or hunting will be permitted on the Lands by Grantee's employees and contractors.

2. Term. The term of this Agreement shall commence on the effective date hereof, and shall continue for so long as access to the Lands is required for compliance with State of

¹ By "reasonable", this means Grantee will make every effort possible to avoid accessing the Lands for monitoring and permitting activities during Grantor's desired Colorado Parks and Wildlife sanctioned big game hunting seasons. Grantor shall provide Grantee with written notice annually on or before July 1 of Grantor's desired seasons ("Grantor's Hunting Seasons"), and of any areas of wildlife habitat improvement. Grantee will make every effort possible to avoid access to the Lands during Grantor's Hunting Seasons and habitat improvement areas. Grantor acknowledges that weather and other adverse conditions may affect Grantee's ability to access the Lands and as such Grantee may require access to the Lands during Grantor's Hunting Seasons. If such condition exists, Grantee will coordinate with Grantor to access the Lands at times and/or areas as needed between the parties.

Colorado Division of Reclamation, Mining and Safety Permits C-1981-038 and C-1996-083 unless terminated earlier as provided for below. This Agreement may be terminated sooner as follows:

(a) Grantee may terminate this Agreement for any reason upon thirty (30) days' prior written notice to Grantor and thereafter shall be released and relieved from any and all further liability hereunder, except as otherwise incurred prior to termination of this Agreement; and,

(b) Grantor may terminate this Agreement for Grantee's material breach of any of the terms and conditions of this Agreement as provided below.

<u>3. Surface Disturbance Fee.</u> In the event Grantee elects to construct/install new drill sites, drill holes, and access roads pursuant to Section l(a)(ii) above, then Grantee shall pay to Grantor a one-time payment in the sum of \$1,500 for each new drill site or monitoring site and \$100 per 100 feet for new road construction upon receiving Grantor's written consent and prior to commencement of the activity/construction.

<u>4. Reimbursement for Damages.</u> Grantee agrees to either promptly repair, or pay Grantor for, any damages to the Lands or related structures or facilities thereon resulting from Grantee's mining or mining related activities, or from Grantee's operations and/or activities hereunder.

<u>5. Drill Sites.</u> Drill sites or pads will be designed to minimize surface disturbance. The maximum size of the drill pad will be 200' x 200'. The estimated surface disturbance for the drill pad will be 0.9 of an acre. Construction of the pad would proceed by first selectively clearing

brush/vegetation, removing and stockpiling topsoil for future use in later reclamation, and

leveling the subsoil to form a flat pad.

<u>6. Access Roads.</u> If the construction of new roads is required the road surface will be approximately 16 feet wide. All existing roads used by Grantee will be maintained in their existing condition or upgraded for ease of access, depending on existing road condition. Drill and monitoring well sites will be accessed from new and existing roads. The sections of existing roads used will be maintained in their existing condition or improved for ease of access. New roads shall be constructed as narrow as possible to safely allow access for the drilling equipment and personnel. Typical constructed road widths can be 16 feet wide. All roads shall be used in a reasonable and prudent manner so as to prevent any unnecessary damage. Any damage that occurs will be repaired by Grantee in a timely manner.

<u>7. Gates and Fences.</u> The rights of access granted herein are subject to the right of Grantor to maintain all existing fences and gates, and to modify and/or add such new fences and gates as Grantor deems necessary in its discretion. Gate that are locked by Grantor shall be kept locked by Grantee. Grantor agrees to either provide Grantee with keys or combinations to such locks or Grantee may provide its own locks and, in such event, Grantee shall provide Grantor with keys or combinations to Grantee's locks prior to such installation. All gates utilized by Grantee, whether locked or not, shall be kept closed.

<u>8. Waste.</u> Grantee shall not commit or knowingly allow another to commit any waste or nuisance upon the Lands. Grantee shall not destroy, deface or damage any part of the improvements on the Lands or knowingly permit any other person to do so.

<u>9. Encumbrances.</u> Grantee shall keep the Lands free and clear of any and all liens and encumbrances arising or which might arise, for any reason, out of Grantee's activities on, and use of, the Lands.

<u>10. Hold Harmless.</u> Grantee shall defend, indemnify and save Grantor, or its duly authorized agent, harmless from and against any and all losses, costs, expenses, claims, liabilities, suits or actions (including all reasonable expense, court costs, and attorney's fees) arising out of injuries to or death of any person or person, or arising out of loss of or damage to the property of any person or persons caused by or resulting from, directly or indirectly, any act or omission of Grantee, or any of its agents or employees.

<u>11. Breach and Re-entry</u>. If Grantee commits a material breach of any term of this Agreement and fails or refuses to commence in good faith to remedy the breach within thirty (30) days after Grantor delivers written notice to Grantee, then Grantor may terminate this Agreement upon ten (10) days' written notice to Grantee.

<u>12. Amendment.</u> This Agreement may be amended only by a written amendment executed by both parties.

<u>13. Notices.</u> All notices shall be given (i) by personal delivery, or (ii) by electronic communication, capable of producing a printed transmission, or (iii) by registered or certified mail return receipt requested; or (iv) by overnight or other express courier service. Notices shall be effective and shall be deemed delivered on the date of receipt at the principal address if received during normal business hours, and, if not received during normal business hours, on the next business day following receipt. Any party may change its address or other contact information by written notice to the other party.

<u>If to Grantor</u> Kevin M. Keeling Revocable Trust PO Box 326 Monett, MO 65708 Phone: 417.236.9602 Email: kim@3dsolutions.com

If to Grantee

Bowie Resources, LLC

Attn: Land Department

225 North 5th St., Suite 900

Grand Junction, CO 81501

Phone: (970) 263-5144

Email: rwilson@bowieresources.com

<u>14. Entire Agreement.</u> This instrument constitutes the entire agreement and understanding between the parties hereto, and all parties executing this instrument have received a copy of the same.

15. Recordation. This Agreement shall not be recorded. Concurrently with the execution of this Agreement, the parties shall execute and record a Memorandum of Surface Access and Use Agreement for recording in the form attached hereto as Attachment "B".

16. Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State of Colorado. Each party hereto consents to the jurisdiction of any appropriate court in the State of Colorado in the event there is a dispute or disagreement arising out of this Agreement. Except as otherwise provided in this Agreement, the parties shall be entitled to any and all remedies provided by law.

<u>17. Binding Effect.</u> All the terms, conditions and covenants of this Agreement shall be binding upon and shall inure to the benefit of the successors and assigns, respectively, of each party hereto. Grantee shall provide a copy of this Agreement to any person who may acquire ownership of the Grantee's surface rights to the Lands.

IN WITNESS WHEREOF, Grantor and Grantee have executed this Surface Access and Use Agreement in duplicate effective the date first above written.

Signatures on Following Page

Grantor:

Kevin M. Keeling Revocable Trust Agreement dated April 20, 2007

By:_ Kevin M. Keeling

Its: <u>Co-Trustee</u>

Grantor:

Kevin M. Keeling Revocable Trust Agreement dated April 20, 2007

lup eeling

Its: <u>Co-Trustee</u>

Grantee:

Bowie Resources, LLC

By:_

Gene DiClaudio

Its: Chief Operating Officer

Grantor:

Kevin M. Keeling Revocable Trust Agreement dated April 20, 2007

By:_____ Kevin M. Keeling

Its: <u>Co-Trustee</u>

Grantor:

Kevin M. Keeling Revocable Trust Agreement dated April 20, 2007

By:_____ Melanie J. Keeling

Its: <u>Co-Trustee</u>

Grantee:

Bowie Resources, LLC

By: Gene DiClaudio

Its: Chief Operating Officer

## Attachment A



**VOLUME XI** 

Acres         Depth Ft.         CY         Stockpile         CY         (Req ¹ )           Initial 50 Foot Bench         5.5         1.1         9,761         25,733         700 of Pile         25,733         700 of Pile         70,761         25,733         700 of Pile         700 of Pi		Α	XI - GOB F Appendix A					
Area         *Topool         Topool         Common instance           Acros         Depth FL         CV         CV           Coverfill Pike-East         1:0         1:1         1:7,77           Cond Mine Waste File         1:5.2         1:1         27,756         CV         CV           Totals         19.44         35,754         CV         CV         CV         CV           Cond Mine Waste File         15.2         1:0         25,754         CV		Coal Mine	Waste Disp	osal Are	а		1	1
Area         *Topool         Topool         Common instance           Acros         Depth FL         CV         CV           Coverfill Pike-East         1:0         1:1         1:7,77           Cond Mine Waste File         1:5.2         1:1         27,756         CV         CV           Totals         19.44         35,754         CV         CV         CV         CV           Cond Mine Waste File         15.2         1:0         25,754         CV		Salvage Volun	nes					
Coverfill In Place on outstope (vest end of pile)         Placed in 2020         4.999         4.999         71.116         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <th></th> <th>Area</th> <th>*Topsoil</th> <th></th> <th></th> <th></th> <th></th> <th></th>		Area	*Topsoil					
Coal Mine Waste Pile         15.2         1.1         27.956         Image: Control of Control								
Reclamation Volumes         From         Cover (Rect)         Topoll           Acres         Topsoil         From         Cover (Rect)         Topsoil           Top of Pile         9,761         9,761         9,761         25,333         Reclamation for the standard sta								
Area         Topsoil         Topsoil         Topsoil         Cover (Req)         Total soft and the second se	Totals	19.44		35,754				
Acres         Depth FL         CV         Stockpile         CV         (Req)           Top of Pile         9,7         1,1         17,214         45,333         -           Coverfill Pile         10         0,5         766         766         7,6         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         7,7         <		Reclamation Vol	umes					
Initial 50 Foit Bench       5.5       1.1       9.761       9.761       25.733         Coverfill Pile       9.7       1.1       17.21       17.214       45.383         Coverfill Pile       1.0       0.5       766       766       764         Non-gob pile related reclamation areas       8.6       0.5       6.937       6.937       71.4         Coverfill in Stockpile;       24.75       34.679       34.679       71.116       105.         Coverfill in Stockpile; 2020       20.050       20.050       20.050       20.050         Placed in Coverfill Stockpile (2021)       4.304       76.918       Coverfill in Stockpile;         Placed on outslope (west end of pile)       Placed in 2020       4.698       20.050         Placed on outslope (west end of pile)       Placed in 2021       16.990       21.688       21.688         Coverfill no complete reclamation at #3       71.116       71.116       71.116       71.116       71.116         Coverfill no complete reclamation. Gob Pile #2 and Gob Pile #2;       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116       71.116								Total
Top of Pile         9.7         1.1         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214         17.214 </td <td>Initial 50 Foot Depak</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(Req'd)</td>	Initial 50 Foot Depak							(Req'd)
Coverfill In Pile         1.0         0.5         766         766         n/a           Non-gob pile related reclamation areas         8.6         0.5         6.937         n/a           Coverfill In Stockpile:         34.679         71,116         105,           Coverfill In Stockpile:         20.55         52.564         105,           Coverfill In Stockpile:         20.50         20.50         105,           Placed in Coverfill Stockpile (2020)         20.50         4,304         105,           Coverfill In-Place on outslope of Gob Pile         Placed in 2020         4,698         105,000           Placed on outslope (west end of pile)         Placed in 2020         4,698         104,000         10,690           Coverfill to complete reclamation at #3         Total cover required         71,116         105,000         10,690           Coverfill to complete reclamation at #3         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690         10,690								
Non-gob pile related reclamation areas       8.6       0.5       6.937       n/a         Totals       24.75       34.679       34.679       71,116       105,         Coverfill in stockpile;       52.564       20.050       20.050       20.050         Placed in Coverfill Stockpile (2021)       4.304       20.050       4.304         Coverfill In-Place on outslope of Gob Pile       Placed in 2020       4.698       21.688       For an analysis of the second of pile         Placed on outslope (west end of pile)       Placed in 2020       4.698       21.688       Total Coverfill on Gob Pile         Placed on outslope (west end of pile)       Placed in 2020       4.698       10.000       10.000         Coverfill to complete reclamation at #3       71,116       71.116       10.000       10.000         On gob pile outslope       21.688       Total Coverfill on Gob Pile       21.688       10.000       10.000         Coverfill necessary for gob pile #2 case volume its.App. A)       30.000       30.000       10.000       10.000       10.000       10.000         Coverfill necessary for gob pile #2 case volume its.App. A)       30.000       33.25       Topsoil (In-place and to be salvaged):       CV         Coverfill necessary for gob pile #2 case volume its.App. A)       10.000       <								
Coverfill In Stockpile;       S2 564         Coverfill In stockpile; available for reclamation:       52 564         Placed in Coverfill Stockpile (2020)       4,304         Placed in Coverfill Stockpile (2021)       4,304         Coverfill In-Place on outslope of Gob Pile       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Placed on outslope (west end of Pile)       Placed in 2020         Orgob pile outslope       21,688         Total Cover required       71,116         Or gob pile outslope       21,688         Orgob pile outslope       21,688         Coverfill necessary to complete reclamation. Gob Pile #2 and Gob Pile #3;         Coverfill necessary to gob pile #2 to be hauled to gob pile #2         Coverfill necessary to gob pile #3 to be hauled to gob pile #2         Coverfill necessary for gob pile #3 to be hauled to gob pile #2         Coverfill necessary for gob pile #3 to be hauled to gob pile #2         Coverfill necessary for gob pile #3 to be hauled to gob pile #2         Coverfill necessary for								
Coverfill In stockpile, available for reclamation:       22.564       20.050         Placed in Coverfill Stockpile (2021)       4.304       76.918         Coverfill In-Place on outslope of Gob Pile       Placed in 2020       4.698         Placed on outslope (west end of pile)       Placed in 2020       4.698         Placed on outslope (west end of pile)       Placed in 2020       4.698         Placed on outslope (west end of pile)       Placed in 2020       4.698         Coverfill to complete reclamation at #3       71.116       16.990         Coverfill necessary to complete reclamation. Gob Pile #2 and Gob Pile #2       71.116       16.990         Coverfill necessary to complete reclamation. Gob Pile #2 and Gob Pile #3:       50.000       (chown on Appendix A. Volume IX, App. A)         Remaing cover in stockpile at gob pile #3 to be hauled to gob pile #2       27.490       27.490       16.990         TOPSOIL PILES "F1", (In Place, From UTL) ***       52.865       88.325       Topsoil       16.990         TOPSOIL PILES "F1", (Newly Salvaged)*       35.460       16.990       16.990       16.990       16.990         Coverfill notorspile topsoil (In place and to be salvaged)*       16.990       16.990       16.990       16.990       16.990         Coverfill necessary to complete reclamation. Gob Pile #2 and Cob Pile #2       27.490 </td <td>Totals</td> <td>24.75</td> <td></td> <td>34,679</td> <td>34,679</td> <td>71,116</td> <td></td> <td>105,794</td>	Totals	24.75		34,679	34,679	71,116		105,794
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Total cover required       71,116         On gob pile outslope       21,688         49,428 Required from stockpile         Coverfill necessary to complete reclamation. Gob Pile #2 and Gob Pile #3:         Coverfill necessary for gob pile #2 (see Volume IX, App. A)         Remaing cover in stockpile at gob pile #3 to be hauled to gob pile #2         27,490         Remaing cover in stockpile at gob pile #3 to be hauled to gob pile #2         27,490         Image: Coverfill necessary for gob pile #3 to be hauled to gob pile #2         27,490         Image: Coverfile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #2         Image: Cover in stockpile at gob pile #3 to be hauled to gob pile #3 to be hauled to gob pile #3 to be hauled to gob pile #3 to be hauled					21,688	Total Coverfill	on Gob Pile	
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TOPSOIL PILES "F", (In Place, From UTL) ***         52,865         88,325         Topsoil           TOPSOIL PILES "F1", (Newly Salvaged)**         35,460         Image: CY         Image: C			oile #2					
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CY         CY           TOPSOIL PILES "F.", (In Place, From UTL) ***         52,865         88,325         Topsoil           TOPSOIL PILES "F1", (Newly Salvaged)**         35,460								
TOPSOIL PILES "F", (In Place, From UTL) ***       52,865       88,325       Topsoil         TOPSOIL PILES "F1", (Newly Salvaged)**       35,460					TOTAL Top	soil (In-place a	and to be sa	<u>alvaged):</u>
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WNIFORM TOPSOIL DEPTH ASSUMED IN ORDER TO MATCH QUANTITY CALCULATED  PLEASE SEE VOLUME XI, SECTION "RECLAMATION" FOR A DISCUSSION OF THE SALVAGE vs. ACTUAL TOPSOIL VALUES  ** 6,500 CY ADDED TO PREVIOUS TOTAL OF 28,424 CY based on 04/09/2014 in-field survey	IOPSOIL PILES "F1", (Newly Salvaged)**		35,460					
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100       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       1								 			 	 				 						
343       740       1.125       8.125       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.000       1.0				9250				 			 	 				 						
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303       7.83       1.49       901       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904       904 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th> </th><th></th><th></th><th> </th><th> </th><th></th><th></th><th></th><th> </th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								 			 	 				 						
373       327       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       1.02       <				8325				 		ļ	 	 				 						
37     365     345     332     3332     3332511     331995     3332511     331995     331     331995     331     331995     331     331995     331     331995     331     331995     331     331995     331     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     3319     331				911				 			 	 				 			.;			
Tends     332211     36399     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0								 			 	 				 						
Ofference     Or     Or <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th> </th> <th></th> <th></th> <th> </th> <th> </th> <th></th> <th></th> <th></th> <th> </th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								 			 	 				 						
Amount       Fines Not       Amount       Amount <th>lotais</th> <th>332521</th> <th></th> <th>651995</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th> </th> <th> </th> <th></th> <th></th> <th></th> <th> </th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	lotais	332521		651995							 	 				 						
Amount         Manuel         Amount         Manuel         Amount         Amount<		Difference		417906	CV			 			 	 				 						
HOURLY EQUINE CONT House <		Difference		417800				 			 					 						
HOUR FGUNE FGUNE Housin Use Housin Us								 			 	 				 						
HOURLY EQUINE CONT House <				••••••				 			 	 				 			1			
HOURLY EQUINE CONT House <	CHANGE A	PPI IFS TO DOZER, RIP	PFR - Remove Ripper Ov	n and Operatio	on			 			 	 				 						
Imput         Impu<				operation of the second s				 			 	 				 						
15       538.93       39       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<			1					 				 				 						1
15       538.93       39       0.31       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td< th=""><th>Task</th><th>Amount</th><th># Hours in Use</th><th></th><th></th><th></th><th></th><th> </th><th></th><th></th><th></th><th> </th><th></th><th></th><th></th><th> </th><th></th><th> [</th><th>1</th><th></th><th></th><th>1</th></td<>	Task	Amount	# Hours in Use					 				 				 		 [	1			1
60       \$38.93       0.11       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0				Ĩ												 						Ĩ
61       \$38.93       3.71												 										
62       538.93       2.06 <th>61</th> <th>\$38.93</th> <th>3.71</th> <th></th> <th></th> <th>ļ</th> <th></th> <th></th> <th></th> <th>-</th> <th></th>	61	\$38.93	3.71			ļ				-												
64       338.93       7.69																 						1
65       \$38.93       3.71	63	\$38.93	59.09							-					Ì						l	
66       338.93       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.43       0.44	64	\$38.93	7.69																			
70       \$42.69       116.48       Image: Constraint of the co			3.71																			
72       542.69       2.15										<u>.</u>	 	 				 						
74       \$42.69       2.95								 			 	 				 						
77       \$42.69       2.36								 			 	 				 		į				
78       538.93       5.17								 			 	 				 			ļ			
79     \$38.93     0.74								 			 	 				 						
83     538.93     0.44       84     538.93     0.95       85     538.93     36.6       90     55.52     129.92								 	ļ	Į	 	 				 	ļ	ļ				
84         \$38.93         0.95           85         \$58.93         36.46           90         \$5.52         129.92	79	\$38.93						 			 	 				 	ļ	ļ				
85         \$38.93         36.46           90         \$5.52         129.92								 	ļ	ļ	 	 				 	ļ	ļ				
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	91	\$5.52	16.91			į	<u>.</u>	 	Į		 	 I				 	į	Į				

92	\$5.52		92																		
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129	\$38.93		44					 	Į					 	 	 					 
		611.	34					 						 	 	 					 
Remove Ch	isel Plowing							 						 	 	 					 
Task 150	Drill Seeding																				
154	Broadcast Seed																				
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CHANGE A	PPLIES TO DOZER - A	II to be Changed	to 100 Feet (17	18.9 LCY/HR)				 							 	 					 
	HOURLY PRODUCTION			1				 	1						 	 	<u>.</u>				 
				1				 	1					 	 	 					 
	AVERAGE PUSH DISTA	NCF						 						 	 	 					 
Task		:				1	11	 	( 1	( !				 	 	 	 !				 
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106	CONDTION CORREC	LIION FACTOR													 		 	 	 	1
Operator Skill		0.85	Change from	average to above	average 0.75 to (	).85			1									 		1
Aaterial Consis		0.9																 	 	Į
Oozing Method	d	1													 		 ·····	 	 	
isiblity ob Efficiency		1 0.85	Change from	working 50 minut	es per hour to 51	minutes ne	er hour											 	 	
poil Pile		1	enunge nom												 			 	 	å
ush Gradient		1							ļ						 		 	 	 	Į
ltitude		1													 		 	 	 	Į
Aaterial Weigh lade Type	nt	0.793 1													 		 	 	 	
	Correction	0.52	(0.5156)		·			1							 			 	 	1
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ustification for	or changes																 	 	 	
perator Skill HANGE TO RE	FLECT ABOVE AVER	AGE SKILL OF 0.85%													 			 	 	1
			MENT WITH 10+ YEARS	EXPERIERCE, MA	KING THEM ABOV	/E AVERAGE									 		 	 	 	1
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Aterial Consistence						ļ			ļ						 		 	 	 	ļ
			RIATION IN MATERIALS BOND TO BE ON THE SI												 			 	 	1
																	 	 	 	1
			T, ALTITUDE AND BLAD	E TYPE SHOULD BE	1.00 IN THIS CO	RRECTION F	ACTOR													1
HEY DO NOT E	EFFECT THE JOB CO	NDITION AT THE SITE													 		 	 	 	
Snoi	il Pile refers to mate	erial dug and niled for	storage - does not apply	to reclamation											 		 	 	 	
500	in the refers to mate														 			 	 	1
<u>Push</u>	h Gradient on site is	between 0 and 20% w	vith the majority being	ess the 5%					••••••••••••••••••••••••••••••••••••••			1			 		•		 	<u></u>
															 		 	 	 	Į
Aver	erage Site Altitute is	between 5,000 - 7,500	r' (CAT Table) = 1.0														 	 	 	
b Efficiency						1									 		 	 	 	1
	) MINUTES MINUS 3	- 15 MINUTE BREAKS	PER DAY = 435 MINUTE	S WHICH IS 90% O	F THE TIME THEY	ARE WORK	(ING - 54 mi	nutes per hour										 	 	
			ITES WHICH IS 85% OF												 		 	 	 	Į
HOURS = 480	) MINUTE MINUS 80	MINUTES CAT HANDB	BOOK = EFFICIENCY OF	0.83 WHICH IS WO	ORK BEING PERFC	ORMED 83%	OF THE TIN	1E - 50 minutes	per hour						 		 	 	 	
aterial Weigh	ht														 		 	 	 	1
		DBOOK AND DESCRIBE	S THE MATERIAL OF 50	% ROCK, 50% EAR	TH OR 2,900 LBS/	LCY									 ų.		 	 	 	
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					-										 		 ••••••	 	 	
ANGE APPLI	IES TO TRUCK/LOA	DER													 		 	 	 	1
			Ī															 		Î
FOR	R MATERIAL QUANIT	TIES - SEE TASKS LISTED	ABOVE			ļ			Į								 	 	 	1
יטט						1			1			······			 			 	 	
ΠUL	URLY PRODUCTION																 	 	 	
YLOAD CAPA	ACITY							· · · · · · · · · · · · · · · · · · ·	<u>.</u>	<u>.</u>		1							 	
SK		1	14 27	40	45	45B	45C	45D	45E	75					 			 	 	Į
Truc		42.25	42.25 1	2 22.13	3 12.21	12.21	12.21	12.21	12.21	12.21		Check Task	s 27 thru 7	5	 		 	 	 	ļ
Load	der - Multiple dels	6.9	9.2 4	3 3.14	4.3	4.3	4.3	3 4.3	4.3	6.9		Correct Tas	sk 40							
11100			5.2 4	5.14	+.3	<del>.</del> -	4.3	4.3		0.9		concer ids			 		 	 	 	
	d (volume) Basis - LC	Y													 		 	 	 	
ASK .		1	14 27	40	45	45B	45C	45D	45E	75	L	I			 		 	 	 	1

Character Markage								······	25								·····		······	·····÷·					E
Struck Volume Heaped Volume	3 46.	35 35 .5 46.5							35 46.5																
Average Volume	40.7		<u>ğ</u> ı						40.75																
Adjusted Capacity	42.2								42.25																
Final Truck Volume	42.2	40.25							42.26		Correct to 4	42.25 LCY													
Generic 6X4 Truck Bed (volume) I	Basis - LCY																								
Struck Volume			1		.0 10			10	10																
Heaped Volume			1		.2 12			12	12																
Average Volume Adjusted Capacity			1		.1 11 .2 12			11 12	11 12																
Final Truck Volume			11.6				10.97		.0.64		Correct to 2	11 LCY													
Loading Tool Capacity/Model #	365CC	988H	345DL	345DL	345DL		345DL 345DL	345DL	365CC																
Rated Capacity Change to Bucket Fill Factor		.9 9.2 1 1				3 4.3 1 1	4.3	4.3	4.3 6.9 1 1		Correct Tas		tor to 1 for	Rock Dirt N	Rock Dirt M	ixtures and	1 Moist Loam	(CAT Handboo	nk)						
Adjusted Capacity		.9 9.2					4.3	4.3	4.3 6.9																
CHANGE APPLIES TO SCRAPER																									
TASK		13	2	2 4	2 43	3 44	46	71	73 80	110	111	112	113	115	117	118	121	123	124	125	127	128			
Scraper Bowl (volume) Basis - Pay	load Capacity																								
Struck Volume Heaped Volume		15.7 22			.7 15.7 22 22		15.7 22	15.7 22	15.7 15.7 22 22	15.7 22	15.7 22	15.7 22	15.7 22	15.7 22	15.7 22	15.7 22		15.7 22	15.7 22	15.7 22	15.7 22	15.7 22			
Average Volume		18.85					18.85		8.85 18.85			18.85			18.85	18.85			18.85	18.85	18.85	18.85			
Adjusted Capacity		18.21					18.21		8.53 18.21		5 C	18.85	18.85		18.85	18.85			18.85	18.85	18.85	18.85		Change all	to 18.85
		10.01	10.0				10.01	10.00	0.50 10.01	20.74		20.74	20 74			20.74	20.74	20.74						a	
Payload Capacity		18.21	18.2	1 18.2	1 18.21	1 18.21	18.21	18.86 1	8.53 18.21	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71	20.71		Change all	to 18.85
Haul Distances have been measu	red and need to	la a navida a di Mura								5	ā										į.		••••••		§ · · · · · · · · · · · · · · · · · ·
	icu unu necu to i	be revised. Num	bers have bee	n rounded to the	nearest whole no	umber											1								
			bers have bee	n rounded to the	nearest whole n	umber																			
Task DRMS Bond (ft)	Actual (ft)	Difference		n rounded to the	nearest whole n	umber																			
Task DRMS Bond (ft) 13 800	Actual (ft)	Difference 5 135		n rounded to the	nearest whole n	umber																			
Task DRMS Bond (ft) 13 800 42 3200 43 1500	Actual (ft) D 66 D 85 D 208	Difference 55 135 50 2350 30 -580		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46:         2600	Actual (ft) Actual (ft) 66 85 208 190	Difference 55 135 00 2350 00 -580 00 700		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850	Actual (ft) 2 66 2 85 2 208 3 190 5 576	Difference           55         135           60         2350           80         -580           90         700           8         1082		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46:         2600	Actual (ft) Actual (ft) 85 2 208 2 208 2 190 2 576 2 262	Difference 5 135 0 2350 0 -580 0 700 8 1082 11 -21		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000	Actual (ft) 2 66 2 85 2 08 2 09 2 09 2 09 2 576 2 62 2 62 3 60 0 838	Difference 5 135 0 2350 0 -580 0 700 8 1082 11 -21 14 296 14 -384		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6855           73         2600           80         3900           110         8000           111         2000	Actual (ft) 66 85 208 190 576 262 262 263 263 263 263 263 26	Difference 5 135 0 2350 0 -580 0 700 8 1082 1 -21 4 226 4 -384 1 -781		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000	Actual (ft) Actual (ft) 665 208 208 208 208 208 208 208 208	Difference 55 135 10 2350 10 2350 10 700 10 700		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000	Actual (ft) Actual (ft) 85 208 208 208 208 208 208 208 208	Difference 5 135 0 2350 0 -588 0 -588 0 700 8 1082 1 -21 4 296 4 -384 1 -781 0 4840 5 -35		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           10         8000           110         8000           111         2000           112         8000           113         3900           115         3900           121         8000	Actual (ft) Actual (ft) 8 8 2 8 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Difference 55 1355 1355 10 2350 10 -580 10 700 18 1082 11 -21 1 -21 14 2296 14 -384 11 -781 10 4840 15 -355 15 -355 10 2650 10 2650		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6855           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         8000           123         1000	Actual (ft) Actual (ft) 665 2085 2085 209 209 209 200 200 200 200 200	Difference 55 135 10 2350 10 - 580 10 - 700 18 1082 11 -211 14 296 14 -384 11 -781 10 4840 15 -355 10 2655 10 26555 10 26555 10 26555 10 26555 10 26555 10 26555 10		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           10         8000           110         8000           111         2000           112         8000           113         3900           115         3900           121         8000	Actual (ft) Actual (ft) 667 208 208 208 208 208 208 208 208	Difference 55 135 10 2350 10 2350 10 700 10 700 10 700 10 700 10 700 10 2350 10 2350 10 2350 11 -21 14 2296 14 384 15 -355 10 2450 13 5 13 5 15 13 5 15 15 15 15 15 15 15 15 15 15 15 15 15		n rounded to the	nearest whole n	umber																			
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Jak         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           115         3900           121         8000           122         1000           123         1000           125         1000	Actual (ft) Actual (ft) 85 208 208 208 208 208 208 208 208	Difference 5 135 0 2350 0 -580 0 -580 0 -700 8 1082 1 -21 4 296 4 -384 1 -781 0 4840 5 -35 0 2650 0 -350 0 -350		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           115         3900           121         800           122         1000           123         1000           124         1000           125         1000	Actual (ft) Actual (ft) 85 208 208 208 208 208 208 208 208	Difference 5 135 0 2350 0 -580 0 -580 0 -700 8 1082 1 -21 4 296 4 -384 1 -781 0 4840 5 -35 0 2650 0 -350 0 -350		n rounded to the	nearest whole n	umber																			
DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           800         3900           110         8000           111         2000           112         8000           113         3900           123         1000           125         1000           127         1000	Actual (ft) Actual (ft) 3 66 2 85 2 208 2 208	Difference 5 135 0 2350 0 -580 0 700 8 1082 1 -21 4 295 4 -384 1 -781 0 4840 0 4840 0 4840 0 -350 0 2650 0 -1300 0 -350 8 222 4 714 0 -800		n rounded to the	nearest whole n	umber																			
Task         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6855           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         800           123         1000           125         1000           127         1000           128         1000           129         1000           120         1000           121         800           123         1000           124         1000           125         1000           126         1000           127         1000           128         1000           129         1000           120         1000           121         1000           125         1000           126         1000           127         1000           128         1000 <td>Actual (ft) Actual (ft) 8 8 2 8 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>Difference 55 1355 1355 1350 2350 10 -580 10 -700 8 1082 11 -21 4 296 4 -384 11 -21 0 4840 15 -385 0 4840 15 -355 0 2655 0 350 1300 1300 0 -350 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 10 -350 10 -35</td> <td></td>	Actual (ft) Actual (ft) 8 8 2 8 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Difference 55 1355 1355 1350 2350 10 -580 10 -700 8 1082 11 -21 4 296 4 -384 11 -21 0 4840 15 -385 0 4840 15 -355 0 2655 0 350 1300 1300 0 -350 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 1300 10 -350 10 -35																							
Task         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6855           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         800           122         1000           123         1000           124         1000           125         1000           126         1000           127         1000           According to the manufacturer th	Actual (ft) Actual (ft) 660 870 190 208 209 200 200 200 200 200 200 200	Difference 55 135 10 2350 10 700 10 700 1					en the																		
Task         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         8000           122         1000           123         1000           124         1000           125         1000           127         1000           128         1000           129         1000           120         1000           121         800           122         1000           123         1000           124         1000           125         1000           126         1000           127         1000           128         1000           129         1000           120         1000           121         800           122         1000 <th>Actual (ft) Actual (ft) 5 2 2 2 2 2 2 2 2 2 2 2 2 2</th> <th>Difference 5 135 0 2350 0 -580 0 700 8 1082 1 -721 4 296 4 -384 1 -781 0 4840 0 4840 0 -350 0 2650 0 -350 0 2650 0 -350 0 -35</th> <th>h a 3-shank rip</th> <th></th> <th></th> <th></th> <th>en the</th> <th></th>	Actual (ft) Actual (ft) 5 2 2 2 2 2 2 2 2 2 2 2 2 2	Difference 5 135 0 2350 0 -580 0 700 8 1082 1 -721 4 296 4 -384 1 -781 0 4840 0 4840 0 -350 0 2650 0 -350 0 2650 0 -350 0 -35	h a 3-shank rip				en the																		
Task         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         800           123         1000           124         1000           125         1000           126         1000           127         1000           128         1000           129         1000           120         800           121         800           122         1000           123         1000           125         1000           127         1000           128         1000           129         1000           120         1000           121         800           122         1000           123         1000           124         1000	Actual (ft) Actual (ft) Actual (ft) 85 208 209 200 200 200 200 200 200 200	Difference 55 1355 1355 1355 1357 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 1377 137	h a 3-shank rip	pper, making it un	neccesary to alte	rnate betwe	en the																		
Task         DRMS Bond (ft)           13         800           42         3200           43         1500           46         2600           71         6850           73         2600           80         3900           110         8000           111         2000           112         8000           113         3900           121         8000           122         1000           123         1000           124         1000           125         1000           127         1000           128         1000           129         1000           120         1000           121         800           122         1000           123         1000           124         1000           125         1000           126         1000           127         1000           128         1000           129         1000           120         1000           121         800           122         1000 <td>Actual (ft) Actual (ft) Actual (ft) 85 208 209 209 209 209 209 209 209 209</td> <td>Difference 55 1355 1355 1350 2350 10 2350 10 700 18 1082 11 -211 1 -2</td> <td>h a 3-shank rip</td> <td>pper, making it un</td> <td>neccesary to alte</td> <td>rnate betwe</td> <td>en the</td> <td></td>	Actual (ft) Actual (ft) Actual (ft) 85 208 209 209 209 209 209 209 209 209	Difference 55 1355 1355 1350 2350 10 2350 10 700 18 1082 11 -211 1 -2	h a 3-shank rip	pper, making it un	neccesary to alte	rnate betwe	en the																		

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CHANGES APPLIES TO MOTOR	GRADER													 					
Task 093 needs to have the Tot	tal area changed to 53.88 acres													 1			 		
										[				 			 		<u>i</u>
CHANGES APPLY TO DEMOLITI	ON WORK																		
										<u>.</u>	 								
Demolish and Removal of Stru	ictures						 							 					
Examples provided below of Cl	nanges to Task 165. The task is 22	pages long and can be provided in	n a redline/strike-o	out versior	۱.									 			 		1
	vill be provided when requested.						 				 ļ			 	ļ		 		<u>.</u>
Changes are redlined - deletior	ns are relined and struck through.																 		
	.65											1	1	 1	1		 		
Date: 11/22/20 User: RDZ	)21	Filename:	C083-165				 				 			 ļ	ļ		 		<u>.</u>
User: RDZ		Agency or organ	nization name: DRI	MS															
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UNIT COSTS		Location adjust	ment: 102.20 %				 				<u>.</u>	ļ		 	<u>.</u>		 ļ		
UNITCOSTS														 			 		[
Structure or Item Description	Dimensions	Demolition Menu Selection			Unit Cost					<u>.</u>	ļ			 	ļ		 		
Office and Bath House Superstructure	120'x50'x24'	Bldg. (MN) demo./on- site disposal in excavated pit	144,000.00	CF	\$0.24	\$33,984.00													
Superstructure		Max. 10,000 ft. haul												 1			 		1
floor	120'x50'x6"	Demo. and on-site disposal	6,000.00	SF	\$1.05	\$6,318.00	 							 			 		
		in excavated pit, 6 in. thick - Max. 200 ft. push																	
footing	1.5'x2'	Demo. and on-site disposal	340	LF	\$6.32	\$2,148.80													
		in excavated pit, 1.5' x 2'-					 			ļ				 					<u>.</u>
		Max. 200 ft. push																	
MCC Building Superstructure	18'x42'x11'	Bldg. (SC) demo./on- site	8,316.00	CF	<del>\$0.27</del>					<u>.</u>						<u>.</u>			
D-Seam Portal		disposal in excavated pit Max. 10,000 ft. haul			\$0.24	\$1,995.84					 			 			 		<u>.</u>
floor	18'x42'x6'	Demo. and on-site disposal	756.00	SF	\$1.05	\$796.07								 			 		
		in excavated pit, 6 in. thick -					 							 					
footing	1.5'x2'	Max. 200 ft. push Demo. and on-site disposal	120	LF	\$6.32	\$758.40	 							 	1		 		·····
Tooting	1.5 AL	in excavated pit, 1.5 ft. x 2 ft		<u> </u>		<i>975</i> 0.40													
		Max. 200 ft. push					 	-	ļ						ļ				<u>.</u>
2k gal oil tank remove/haul	NA	Haul tank to certified salvage	1.00	EA	\$760.00	\$760.00								 	••••••		 		
		dump - 3,000 to 5,000 gal									1								
sludge removal	NA	tank	<del>1.00</del>	<del>EA</del>	<del>\$238.00</del>	<del>\$238.00</del>	 				 			 	• • • • • • • • • • • • • • • • • • • •		 		
sludge removal	•••	Remove sludge, water and rem. product from tank -	<del>1.00</del>	EA	<del>3238.00</del>	<del>7230.00</del>											 		
		<del>3,000 to 5,000 gal.</del>																	
sludge disposal	NA	Dispose of tank sludge off-site Average	<del>200</del>	GAL	<del>\$6.80</del>	<del>\$1,360.00</del>								 					<u>.</u>
insert CO2	NA	Insert dry ice (CO2) into tank to	→ <del>30</del>	LB	<del>\$1.71</del>	<del>\$51.30</del>				1									
		produce inert gas - 1.5 lbs/					 			Į				 1					<u>.</u>
		<del>100 gal.</del>								l		[······		 			 		
Stacking Tube	12' diam. X 100' x 12"	Demo. and on-site disposal	3,770.00	SF	\$2.21	\$8,331.70	 Is the tube m			?				 			 		
		in excuvated pit, 12 in. thick-					Should the u	nit be SF, LF,	or CF?			ļ		 			 		
foundation	2' x 3'	Max. 200 ft push Demo. and on-site disposal	38	LF	\$12.64	\$480.32													
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		in excuvated pit, 2.0 ft. x									Į											
		<del>3 ft Max. 200 ft push</del>													į							
							Į				Į											
crete Fan Housing	6'x6'x8'	Bldg. (SN) demo./on- site	288	CF	\$0.22	\$61.92		Is the housing			oth?		į						į			
		disposal in excavated pit						Should the ur	nit be SF, LF,	or CF?												
		Max. 10,000 ft. haul																				
																	1	1				
<del>izardous Waste Removal</del>	NA	Hazardous waste removal-	<del>20</del>	DRUM	<del>\$572.93</del>	<del>\$11,458.60</del>										-	1	-				
		Drum solids/liquids, per																				
		<del>drum, (7+ drum job)</del>											1		1	1	-		1			
<del>est</del>	NA	Hazardous waste sampling and	<del>20</del>	EA	<del>\$224.61</del>	<del>\$4,492.20</del>							1				1	1				Ĩ
	1	analysis, per sample					-			1												Ī
ansport to dump	NA	Solid transport, large truck	<del>150</del>	MI	<del>\$7.25</del>	<del>\$1,087.50</del>				1	[·····								1			<u>e</u>
		(max 80 drums, 25 cy. or 18									[								1			···· 🗄
		tons) - Maximum	1				1			1	[·····					·•••••••••••••••••••••••••••••••••••••			1			···· î ··
Imp charges	NA	Dumpsite disposal charge -	6	TON	<del>\$277.50</del>	\$1.665.00				1		1				······			1			
		Average					••••••											÷	1		• • • • • • • • • • • • • • • • • • • •	
		, the tage					1		• • • • • • • • • • • • • • • • • • • •		·····					•••••••••••••					••••	···· 🗄 ··
aul road pavement removal	RS Means	Pavement, bituminous,	33,367,00	SY	<u>¢1 66</u>	\$155,490.22																
	32 01 16.71 5330	demolition only – 3 in. thick	55,507,00	31	\$1.12														·			
isposal	RS Means	Loading and 2 mile haul, no	5,578	CV .		\$101,798.50																
isposai			3,376	CI	\$4.84	<u>.</u>																
	31 23 23.20 1018	salvage – Machine loading			<b></b> \$4.64	\$20,997.52	ļ										÷	÷				
			1 1				-			-	1					÷	1				-	-
			\$*******	•••••			· · · · · · · · · · · · · · · · · · ·			· [· · · · · · · · · · · · · · · · · ·	2	- E			•••••••••••••••••••••••••••••••••••••••			÷	·•••••••••••••••••••••••••••••••••••••	••••••	••••	···· §···
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sk 165 DEMOLITION WORK – E	Explanation and Justification																					
		ables the same. In conjunction the	e Total Costs have	e been corr	ected to cor	respond. Sugge	ested change	s are present i	n red.													
nit Costs have been rectified to	make the cost throughout the t																					
it Costs have been rectified to	make the cost throughout the t	ables the same. In conjunction the								rofit as well												
it Costs have been rectified to	make the cost throughout the t	ns Catalog, where recommended c	costs include equij	pment and	labor, it is a	lso possible tha	It the costs m	nay include ove	erhead and p	1												
it Costs have been rectified to	make the cost throughout the t with cost data from the RS Mear	s Catalog, where recommended c	costs include equip ole descriptions. T	pment and The most p	labor, it is a rominent is t	lso possible tha	It the costs m	nay include ove	erhead and p	1		ated during dem	plition will be	buried on site	e against a h	ighwall or b	uried in pla	Ce.				
it Costs have been rectified to	make the cost throughout the t with cost data from the RS Mear	ns Catalog, where recommended c	costs include equip ole descriptions. T	pment and The most p	labor, it is a rominent is t	lso possible tha	It the costs m	nay include ove	erhead and p	1		ated during dem	olition will be	buried on site	e against a h	ghwall or b	uried in pla	CCE.				
it Costs have been rectified to it costs appear to correspond the column labeled "Demolitic Beneath the permitte	with cost data from the RS Mean with cost data from the RS Mean on Menu Selection" changes hav d quantity of fill/soil. The termi	ns Catalog, where recommended of the second se	costs include equip ble descriptions. T ed" therefore does	pment and The most p s not apply	labor, it is a rominent is t	lso possible tha	t the costs m reference to	nay include ove an "existing pi	rhead and p t or excavate	1		ated during dem	Dirtion will be	buried on site	e against a h	ghwall or b	uried in pla	ice.				
it Costs have been rectified to it costs appear to correspond the column labeled "Demolitic Beneath the permitte	with cost data from the RS Mean with cost data from the RS Mean on Menu Selection" changes hav d quantity of fill/soil. The termi	s Catalog, where recommended c	costs include equip ble descriptions. T ed" therefore does	pment and The most p s not apply	labor, it is a rominent is t	lso possible tha	t the costs m reference to	nay include ove an "existing pi	rhead and p t or excavate	1		ated during dem	olition will be	buried on site	e against a h	ighwall or b	uried in pla	CCE.				
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### EQUIPMENT RATE SCHEDULE

General Service Work for Snowcap Coal Company, Inc. Service Agreement SNCPRE010

#### HEAVY EQUIPMENT

Fueled Maintained and Operated

Description	Model and Make	Hou	urly Rate
Dozer w/ Ripper	D8N Caterpillar	\$	150.00
Dozer w/ Ripper	D5C Caterpillar	\$	90.00
	D6H Caterpillar	\$ \$ \$ \$ \$	90.00
Loader	3 CY 950-Rubber Tire Cat	\$	75.00
LUddel	85XT Case Skidsteer	\$	50.00
	310 John Deere Back hoe loader	\$	75.00
Backhoe	310D Rubber Tire John Deere	\$	60.00
Excavator	200 John Deere w/ Thumb	\$	115.00
Exolution	200 John Deere w/ Hydra Hammer	\$ \$ \$ \$ \$	160.00
	450 DLC John Deere	\$	190.00
	235X3 Linkbelt	\$	170.00
	350G John Deere		180.00
Grader w/ Ripper	140G Caterpillar	\$	75.00
Older in hipper	143H Caterpillar	\$	95.00
Roller	Ingersol Rand Compactor	\$	55.00
	815B Cat Roller	\$	120.00
Heavy Trucks	Deere 6x6 Articulated Dump Truck	\$ \$ \$	155.00
Trucks	3/4 Ton 4x4 Pickup	\$	10.00
THURKO	12 CY Tandem Dump Truck	\$	75.00
	35 Ton Tractor/Lowboy	\$	115.00
	Tractor/Float	\$	115.00
	2000 Gallon Water Truck	\$	65.00
	Peterbilt 386 Tractor w/side dump	\$	195.00
	Add \$15.00 per hour for rock excav	vation	
		The second s	

Add \$15.00 per hour over 40 hours per week for overtime

LABOR RATES					SMALL EQUIPMENT			
Designation				ime Hourly	Without Fuel or Oper	ator		
Superintendent	\$	34.70	\$	44.70		Da	ily Rate	
Foreman	ŝ	30.75	\$	40.75	Jack Hammer	\$	10.00	
Operator	ŝ	27.25	\$	37.25	Wacker	\$	50.00	
Driver	ŝ	24.50	\$	34.50	185 CFM Air Compressor	\$	90.00	
Carpenter	ŝ	29.75	\$	39.75	4 KW Generator	\$	50.00	
Ironworker	\$	32.25	\$	42.25	15 KW Generator	\$	80.00	
Welder (In house)	φ 2	35.25	\$	45.25	2" Submersible Pump	\$	40.00	
the state of the s	¢	25.50	\$	35.50	3" Submersible Pump	\$	50.00	
General Laborer Field Mechanic	\$	65.00	\$	75.00				

#### MOBILIZATION

Subcontract Rate : Cost + 10%

#### MISCELLANEOUS Cost + 15%

Materials/Subcontractors/Subscriptions: Hourly Concrete Work:

Labor Rate + 15% for Small Tools Additional \$1.50 per Square Foot of Forming for Consumables \$5.00 per day per concrete blanket

Concrete Heating is cost + 12%

**** ISNetworld subscription required by AEP of \$1,410.00 annually with one time sign up fee \$200.00. ***Reflect current fuel prices (Based on Dyed Diesel @ \$3.50 per gallon) and are subject to change

Revised 9/23/19

## 31258 J ROAD HOTCHKISS, CO 81419 FAX (970) 872-3258 JAKE: 201-0079 SETH: 234-4263



(970) 872-4141 HOTCHKISS, CO

# **Tribble & Sons Construction Equipment List:**

Labor	\$40.00
Cat 345B Excavator	\$200.00
Cat D-8 R Dozer	\$210.00
John Deere 470 G Excavator	\$200.00
Cat 315C Excavator	\$130.00
Volvo 235E Excavator	\$150.00
John Deere 50 G Excavator	\$90.00
Cat D-6N Dozer	\$130.00
Cat D-6N Dozer with GPS	\$180.00
4000 Gallon Water Truck	\$100.00
Volvo 30 Ton Haul Truck	\$145.00
Volvo 35 Ton Haul Truck	\$155.00
Cat 14M Grader	\$150.00
Compactor 54"	\$110.00
10 Yard Highway Dumptrucks	\$ 100.00
Skid Steers	\$ 100.00
Backhoe	\$ 100.00
PC88-18,000# Excavator	\$ 100.00
Hammer Hoe	\$200.00
Loader(3 yard)	\$140.00
Cat 330 Excavator	\$160.00
Transport	\$120.00
Pickup	\$ 40.00
Side Dumps	\$120.00
Cat 615 Scaper	\$160.00
Cat 815 Compactor	\$160.00
Scalper 107 Track screening plant	\$150.00