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Mr. Vincent Beresford Geologist Bureau of Land Management Uncompander Field Office 2465 S. Townsend Ave Montrose, CO 81401

Project: USPR001303 March 14, 2023

Subject

Response to request for further information regarding the Sunrise Minerals Notice of Intent to Conduct Prospecting Operations for the REX Project in Montrose County, Colorado BLM Case File Number COC080843 and NOI # P-2022-019

Dear Mr. Beresford,

On behalf of Sunrise Minerals Inc. (Sunrise), SRK Consulting (U.S.), Inc. (SRK) submits this response to the request for further information by the U.S. Department of the Interior Bureau of Land Management Uncompanier Field office (BLM) received via email January 5, 2023, regarding the *Notice of Intent to Conduct Prospecting Operations* (Notice) for the REX Project located in Montrose County Colorado. This response and the attachments will be provided to the Colorado Division of Reclamation, Mining and Safety (DRMS).

Comment 1: A reclamation cost estimate is required in order for your Notices to be considered complete (43 CFR §3809.301(b)(4). Please provide this estimate in accordance with the requirements at 43 CFR §3809.552.

Response: A reclamation cost estimate has been calculated using the Nevada Standardized Reclamation Cost Estimator (SRCE) 1.4.1 build 17b. The SRCE is an estimation tool for the calculation of bond amounts required to reclaim land that is no longer used for exploration, mining, or processing ore. Cost inputs for the SRCE model are provided from the Nevada Division of Environmental Protection (NDEP) annual Cost Data File updated annually by the BLM and the NDEP. Labor costs are based on Nevada Davis Bacon wage rates, and equipment and supply costs are based on regional rates. The Nevada Davis Bacon wage rates are slightly higher than the Davis Bacon Wage rates for Montrose County Colorado, which should make the estimate more conservative. The SRCE costs are predicated on the reclamation being completed by a third party under agency direction. The cost data information is included on pages 13-56 of the cost estimate.

The reclamation cost for the REX project is estimated as \$19,462 which includes direct costs (drill hole abandonment, exploration road and pad reclamation, etc.) and indirect costs for insurance (1.5% of labor costs), contractor profit (10%), contract administration (10%) and government indirect costs (21% of contract administration). These costs are described at the bottom of page 4 on the *Cost Summary* worksheet. Costs for mobilization/demobilization of equipment and for the removal of sediment control measures (straw wattles, culvert, liner, etc.) was also included and can be found on the *Cost Summary* worksheet (page 3) Section A and Section D of the cost estimate.

Comment 2: A detailed project schedule is required to determine reclamation timing, cost and whether the activity will cause unnecessary or undue degradation. Please note that a Notice can only be accepted for work to be done in a 2-year period. Therefore, the proposed activity schedule should not exceed 2 years. If for some reason the work is not accomplished within 2 years, the Notice may be extended at its expiration date. If you want to conduct additional exploration based on your initial test results, you can request the Notice be modified under 43 CFR §3809.330 to account for additional activity.

Response: Drilling is anticipated to begin in May 2023 and completed by May 2025. Drilling success will determine the reclamation schedule, but disturbances will be reclaimed at the earliest opportunity. Earthwork and revegetation activities are limited by the time of year during which such activities can be effectively implemented. Site conditions and/or yearly climatic variations may require that this schedule be modified to achieve revegetation success. Reclamation activities will be coordinated with the BLM, as necessary. Monitoring of revegetation success will be conducted annually for a minimum of three years, or until revegetation standards have been met.

A link for digital copies of the cost estimate will be provided via email.

Please feel free to contact me at (775) 777-0106 or by email at canderson@srk.com with any question, concerns, or if you need further information.

Regards,

SRK Consulting (U.S.), Inc.

Can L' anderway

Cari Anderson, E.I. Principal Consultant

Cc: Colorado DRMS w/ attachment, Lucas West

Colorado DRMS digital, Dustin Czapla

Attachments:

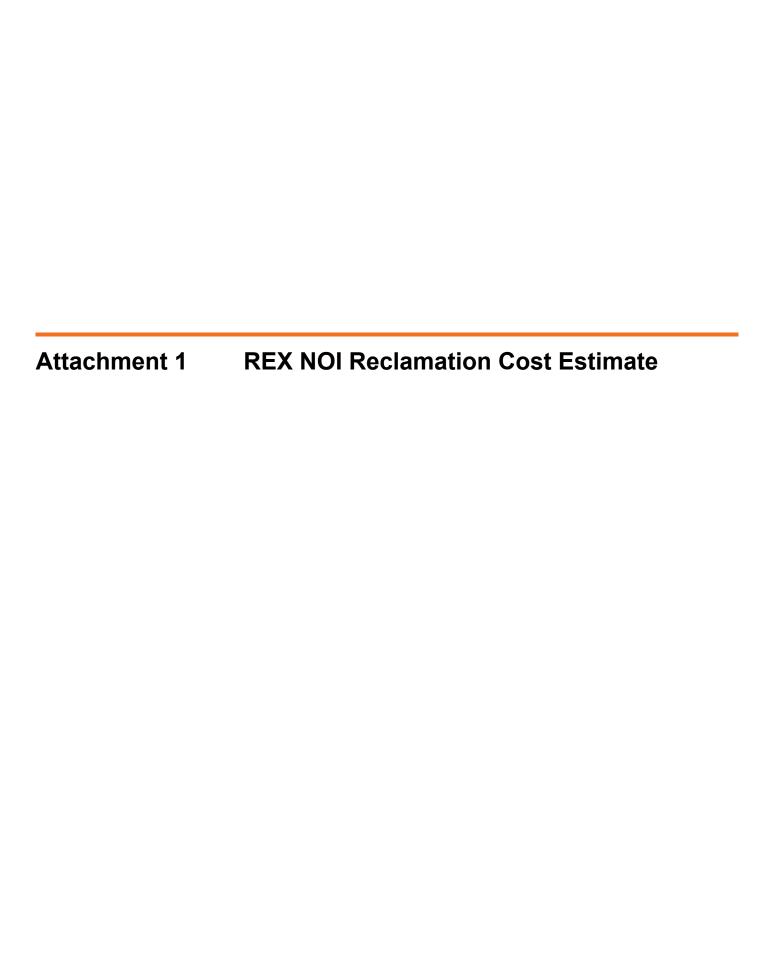
Attachment 1 REX NOI Reclamation Cost Estimate

Canada

Saskatoon 306 955 4778 // Sudbury 705 682 3270 // Toronto 416 601 1445 // Vancouver 604 681 4196 // Yellowknife 867 873 8670

United States

Alaska 907 677 3520 // Clovis 559 452 0182 // Denver 303 985 1333 // Elko 775 753 4151 // Reno 775 828 6800 // Tucson 520 544 3688



Enter Data Below in Green and Blue Spaces

STANDARDIZED RECLAMATION COST ESTIMATOR

Version 1.4.1 Build 017b (Revised 16 May 2019)

Approved for use in Nevada, August 1, 2012

COST DATA FILE INFORMATION	NC	
File Name:	REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm	
Cost Data File:	20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm	
Cost Data Date:	August 1, 2022	
Cost Data Basis:	User Data Data Cost Units: Imperial	
Author/Source:	Nevada Division of Environmental Protection (NDEP) & NV BLM	
PROJECT INFORMATION		
Property/Mine Name:	Sunrise Minerals, REX Property Property Code:	
Project Name:	REX Exploration Montrose County Colorado	
Date of Submittal:	March 2023 Average Altitude: 6000 ft.	
Select One:	☑ Notice or Sm Exploration Plan	
Select One:	□ Private Land □ □ Public or Public/Private	
Cost Estimate Type:	Surety	
Cost Basis Category:	N. Nevada Notice Level	
Cost Basis Description:	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White Pine Counties	

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Closure Cost Estimate Cost Summary

Project Name: REX Exploration Montrose County Colorado Project Date: December 2022 Model Version: Version 1.4.1 File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$711	\$520	\$7	\$1,23
Exploration Roads & Drill Pads	\$1,136	\$2,533	\$0	\$3,66
Roads	\$0	\$0	\$0	\$
Well Abandonment Pits	\$0 \$0	\$0 \$0	\$0 N/A	<u> </u>
Quarries & Borrow Areas	\$0	\$0	\$0	\$
Underground Openings	\$0	\$0	\$0	\$
Process Ponds	\$0	\$0	\$0	<u> </u>
Heaps Waste Rock Dumps	\$0 \$0	\$0 \$0	\$0 \$0	3
Landfills	\$0	\$0	\$0	9
Tailings	\$0	\$0	\$0	(
Foundation & Buildings Areas	\$0	\$0	\$0	
Yards, Etc. Drainage & Sediment Control	\$0 \$0	\$0 \$0	\$0 \$0	
Generic Material Hauling	\$0	\$0	\$0	
Other User Costs (from Other User sheet)	\$0	\$0	\$0	
Other**				
Subtotal	\$1,847	\$3,053	\$7	\$4,9
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	
Mob/Demob	\$2,500	\$2,500		\$5,0
Subtotal "A"	\$4,347	\$5,553	\$7	\$9,90
	1 (0)	(0)		
B. Revegetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
Exploration	\$0	\$0	\$0	
Exploration Roads & Drill Pads	\$1,225 \$0	\$700 \$0	\$569 \$0	\$2,4
Roads Well Abandonment	\$0	\$0	\$0	N
Pits	\$0	\$0	\$0	
Quarries & Borrow Areas	\$0	\$0	\$0	
Underground Openings				N
Process Ponds Heaps	\$0 \$0	\$0 \$0	\$0 \$0	
Waste Rock Dumps	\$0	\$0 \$0	\$0 \$0	
Landfills	\$0	\$0	\$0	
Tailings	\$0	\$0	\$0	
Foundation & Buildings Areas	\$0	\$0	\$0	
Yards, Etc. Drainage & Sediment Control	\$0 \$0	\$0 \$0	\$0 \$0	
Generic Material Hauling	\$0	\$0	\$0	
Other User Costs (from Other User sheet)	\$0	\$0	\$0	
Other**				
Subtotal "B"	\$1,225	\$700	\$569	\$2,49
C. Detoxification/Water Treatment/Disposal of Wastes**	Labor (1)	Equipment (2)	Materials	Total
Process Ponds/Sludge				
Heaps				
Dumps (Waste & Landfill)				
Tailings				
Tailings Surplus Water Disposal Monitoring Miscellaneous				
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site	\$0	\$0	N/A	
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	\$0	\$0	N/A	
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials		-		
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site	\$0 \$0 \$0	\$0 \$0 \$0	N/A \$0 \$0	
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other*	\$0	\$0	\$0	
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet)	\$0	\$0	\$0	
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc.	\$0 \$0 \$0 Labor ⁽¹⁾	\$0 \$0 \$0	\$0 \$0 \$0 S0	Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other " Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas	\$0 \$0 \$0 Labor (1)	\$0 \$0 \$0 Equipment ⁽²⁾	\$0 \$0 \$0 \$0 Materials	Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Disposal Control	\$0 \$0 \$0 Labor (1) \$0	\$0 \$0 \$0 Equipment (2) \$0 \$0	\$0 \$0 Materials	Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal	\$0 \$0 \$0 Labor (1) \$0 \$0 \$0	\$0 \$0 \$0 Equipment (2) \$0 \$0	\$0 \$0 \$0 \$0 Materials	Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other" Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Denotition Equipment Removal Fence Installation	\$0 \$0 \$0 Labor (1) \$0	\$0 \$0 \$0 Equipment (2) \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 Materials \$0 \$0 \$0	Total
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Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other" Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Powerline Removal Powerline Removal Transformer Removal Transformer Removal Transformer Removal Other Misc. Costs Other User Costs (from Other User sheet) Other* Removal of Sediment Control measures Subtotal "D" E. Monitoring Reclamation Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E"	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$0 \$1,50 \$1,50 \$1,50 \$1,50 \$0 \$1,642 \$0 \$0 \$1,642	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$4 \$4 \$3,6 \$3,4 Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Transformer Removal Transformer Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other "Removal of sediment control measures Subtotal "D" E. Monitoring Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "D" F. Construction Management & Support Construction Management	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$0 \$1,500 \$1,642 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Total \$3.0 \$3.4 Total Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal Transformer Removal Pipe Removal Other User Costs (from Other User sheet) Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$0 \$1,500 \$1,642 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Total \$4 \$3,4 Total Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Solis Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Pipe Removal Piper Removal Rip-rap, rock lining, gabions Other Misc. Costs Other Misc. Costs Other Misc. Costs Other User Costs (from Other User sheet) Other " E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "D" F. Construction Management Construction Support	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$3.4 Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Powerline Removal Pipe Removal Other User Costs (from Other User sheet) Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support Construction Support	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$0 \$1,500 \$1,642 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$3,4 Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Fence Installation Culvert Removal Pipe Removal Powerline Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other** Removal of sediment control measures Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$3,4 Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other** Subtotal "C" D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pence Installation Culvert Removal Pipe Removal Pipe Removal Rip-rap, rock lining, gabions Other Misc. Costs Other User Costs (from Other User sheet) Other " Removal of sediment control measures Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support Construction Management Construction Management Construction Support Road Maintenance Other User Costs (from Other User sheet) Other** Subtotal "F"	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$0 \$1,500 \$1,642 Equipment (2) \$0 \$0 \$0 \$0 \$0 \$1,642 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	S3.6 \$3.4 Total
Tailings Surplus Water Disposal Monitoring Miscellaneous Solid Waste - On Site Solid Waste - Off Site Hazardous Materials Hydrocarbon Contaminated Soils Other User Costs (from Other User sheet) Other* D. Structure, Equipment and Facility Removal, and Misc. Foundation & Buildings Areas Other Demolition Equipment Removal Fence Removal Fence Removal Pipe Removal Pipe Removal Powerline Removal Pipe Removal Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Other User Costs (from Other User sheet) Subtotal "D" E. Monitoring Reclamation Monitoring and Maintenance Ground and Surface Water Monitoring Other User Costs (from Other User sheet) Subtotal "E" F. Construction Management & Support Construction Support Road Maintenance Other User Costs (from Other User sheet) Other User Costs (from Other User sheet)	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$142 \$0 \$1,500 \$1,642 \$0 \$0 \$0 \$0 \$1,500 \$0 \$0 \$0 \$1,500 \$0 \$0 \$0 \$1,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$3.4 Total Total Total

^{**} Other Operator supplied costs - additional documentation required.

Closure Cost Estimate Cost Summary

Project Name: REX Exploration Montrose County Colorado

Project Date: December 2022 Model Version: Version 1.4.1

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Indirect Costs		Include?	Total
Engineering, Design and Construction (ED&C) Plan (7)			N/A
2. Contingency (8)			N/A
3. Insurance (9)	\$111		\$111
4. Performance Bond (10)			N/A
Contractor Profit (11)			\$1,585
Contract Administration (12)			\$1,585
7. Government Indirect Cost (13)			\$333
Subtotal Add-On Costs			\$3,614
Total Indirect Costs as % of Direct Cost			23%
GRAND TOTAL			\$19,462

Administrative Cost Rates (%)					
		Cost Rang	ges for Indirect Co	st Percentage	s
	<=	<=	<=	>	
Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	\$25,000,000		\$25,000,000	Small Plan
Variable Rate	8%	6%		4%	0%
	<=	<=	<=	>	
2. Contingency (8)	\$500,000	\$5,000,000	\$50,000,000	\$50,000,000	Small Plan
Variable Rate	10%	8%	6%	4%	0%
3. Insurance (9)		of labor costs			
4. Bond (10)	3.0%	of the O&M costs if	O&M costs are >\$100,000		
Contractor Profit (11)	10%	of the O&M costs			
	<=	<=	<=	>	
Contract Administration (12)	\$1,000,000	\$25,000,000		\$25,000,000	
Variable Rate	10%			6%	
Government Indirect Cost (13)	21%	of contract administ	ration		

- RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES

 1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading,

 2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the

 3. Miscellaneous items should be itemized on accompanying worksheets.

 4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining proper

 5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used, produced,

 6. Any mitigation measures required in the Plan of Operations must be included in the reclamation shittigation measures to avoid,

 7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To

 8. A contingency cost is included in the reclamation cost estimates. Calculate the contingency cost as a percentage of the

 9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the Itemized unit costs.

 10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium is

 11. For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.

 12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a

 13. Government indirect cost rate is 21% of the contract administration costs.

Closure Cost Estimate Reclamation Quantities

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1
Data Cost File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Re	eclamation Quantity Sum	nmary																	
													Unit Costs						
	Description	Total Regrade or Haul Volume cy	Total Regrade or Haul Cost \$	Total Cover Volume cy	Cover Placement Cost \$	Total Growth Media Volume cy	Growth Media Placement Cost \$	Total Surface Area acres	Total Scarify Cost \$	Total Revetation Cost \$	TOTALS \$	Regrade Unit Cost \$/CY	Material Haul or Backfill Unit Cost \$/CY	Cover Unit Cost \$/CY	Growth Media Unit Cost \$/CY	Scarify Unit Cost \$/CY	Area Unit Cost \$/acre		
1	Waste Rock Dumps		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A						
2	Tailings Impoundments		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A	Ĭ .					
3	Heap Leach Pads		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -		N/A				1		
5	Open Pits		\$ -							\$ -	\$ -		N/A				ı		
	Quarries & Borrow Pits		\$ -		\$ -		\$ -		\$	\$ -	\$ -		N/A				1		
6	Roads		\$ -				\$ -		\$	\$	\$ -		N/A				i		
	Landfills		\$ -		\$ -		\$ -		\$	\$ -	\$ -		N/A				1		
8	Buildings				\$ -		\$ -		\$	\$	\$ -		N/A				ı		
	Yards		\$ -		\$ -		\$ -		' 'S	\$	\$ -		N/A				1		
	Ponds		\$ -				\$ -			\$ -	\$ -	N/A					i		
	Exploration Roads	522	\$ 1,989				\$ -	0.97	\$ 1,680	\$ 2,494	\$ 6,163	\$3.81	N/A			\$1,731.96	\$6,353.61		
	Exploration Trenches		\$ -							\$ -	\$ -		N/A				i		
	Diversion Ditches		\$ -							\$ -	\$ -		N/A				1		
	Sediment Ponds		\$ -				\$ -		\$ -	\$ -	\$ -						1		
	Generic Haulage/Backfill		\$ -		\$ -		\$ -		\$ -	\$ -	\$ -	N/A							
	Adit/Decline Backfilling1		\$ -								\$ -	N/A					1		
17	Shaft Backfilling		\$ -								\$ -	N/A					ı		
	TOTALS				\$ -	-	\$ -	0.97					_				<u> </u>		
	Average Costs	per CY	\$3.81	per CY		per CY		per acre	\$1,731.96	\$1.48	\$6,354	per acre	1						

5 of 56 Reclamation Quantities

Closure Cost Estimate Exploration

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$711	\$520	\$7	\$1,238
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$711	\$520	\$7	\$1,238
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$711	\$520	\$7	\$1,238

Exp	loration Drillhole Abandonment - User Inpu	ıt									
	Facility Description		Hole Plugging								
	Description (required)	ID Code	Hole Type (select)	Diameter in	Total Number of Holes	Max Holes Open at One Time	Casing to Remove ft	Average Depth of Hole ⁽¹⁾ ft bgs	Depth to Water ft bgs	Hole Plug Method (select)	
1	Drill holes 7, 8, 11		Reverse Circ	6.0	3.0	1.0	400.0	400.0	400.0	Grout + Backfill	

Notes:

- 1. If core holes are pre-drilled, use length of hole below pre-drilled length
- 2. If Top Plug is selected, assumes maximum 1/2hr laborer time to place plug and backfill with cuttings/soil (including move-to/set up time).

Drill holes range from 90 to 400 feet deep with an average of 166 feet.

E	xploration Trenches - User Input													
	Facility Description		Trench Parameters					Backfill			Revegetation			
	Description (required)	ID Code	Trench Length ft	Trench Depth ft	Trench Bottom Width ft	Trench Sideslope Angle degrees	Additional Hrs for Walk-in ⁽¹⁾ hr	Backfill Material (select)	Cut Material Type (select)	Backfilling Fleet (select)	Seed Mix (select)	Mulch (select)	Fertilizer (select)	

Notes:

- 1. Include one-way hours necessary to walk equipment in from drop-off point to work area
- 2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

E	Exploration Drillhole Abandonment													
	Description (required)	Vol/foot of depth ft3	Hole Plugging Material ⁽¹⁾	Total Grout Volume ⁽²⁾ cy	Total Cuttings Volume cy	Total Top Seal Volume ^(3,4) cy	Total Drillhole Abandon. Hours ^(6,7) hrs	Casing Removal Labor Cost ⁽⁵⁾ \$	Casing Removal Equipment Cost \$	Plugging Labor Cost \$	Plugging Equipment Cost \$	Plugging Material Cost \$	Top Seal Material Cost ^(2,3)	Total Cost ^(6,7)
	1 Drill holes 7, 8, 11	0.200	Cuttings	0.00	2.44	0.19	5	\$344	\$368	\$367	\$152	\$0	\$7	\$1,238
					2.44	0.19	5	\$344	\$368	\$367	\$152	\$0	\$7	\$1,238

Notes:

- 1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level, up to 10' (3m) from top of hole
- 2. Assumes 25% loss to formation for grout backfill
- 3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
- 4. Assumes top 20' (6 m) of hole is plugged with cement if "Grout Only", "Backfill + Grout", or "Cement Plug" hole plug method are chosen.
- 5. Assumes that a) casing is not cemented entire length, b) does not include temporary surface casing
- 6. Assumes minimum 1 hr per hole for abandonment (excluding move-to and casing removal)
- 7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivty Sheet) per drill hole (includes rig time if grouting required, labor crew only if cuttings backfill only)

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Closure Cost Estimate Exploration

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$711	\$520	\$7	\$1,238
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$711	\$520	\$7	\$1,238
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$711	\$520	\$7	\$1,238

Page 7 of 56 Exploration

Closure Cost Estimate Exploration

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$711	\$520	\$7	\$1,238
Trench Backfilling Costs	\$0	\$0		\$0
Subtotal Earthworks	\$711	\$520	\$7	\$1,238
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$711	\$520	\$7	\$1,238

Exp	Exploration Trenches - Backfill/Regrading Costs											
Proc	Productivity = Dozer Productivity x Grade Correction x Density Correction x Operator (0.75) x Material x Visibility x Job Efficiency (0.83)											
	Description (required)	Trench Backfill Volume LCY (BCY+30%)	Dozer Push Distance	Equipment Productivity yd3/hr	Dozing Material	Density Correction	Backfilling Fleet	Corrected Hourly Productivity yd3/hr	Total Dozer Hours hr	Trench Backfill Labor Cost	Trench Backfill Equipment Cost	Total Trench Backfill Cost
										\$0	\$0	\$0

Exp	Exploration Trenches - Revegetation Costs								
	Description (required)	Surface Area acres	Revegetation Labor Cost \$	Revegetation Equipment Cost	Revgetation Material Cost \$	Total Revegetation Cost \$			
			\$0	\$0	\$0	\$0			

3/2/2023
Copyright 2004 20099
Exploration 2004 2009
Exploration 2004 2009
Exploration

Closure Cost Estimate Expl. Roads & Pads

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Exploration Roads & Pads - Cost Summary	exploration Roads & Pads - Cost Summary								
	Labor	Equipment	Materials	Totals					
Grading Costs	\$639	\$1,350	N/A	\$1,989					
Cover Placement Cost	\$0	\$0	N/A	\$0					
Ripping/Scarifying Cost	\$497	\$1,183	N/A	\$1,680					
Subtotal Earthworks	\$1,136	\$2,533		\$3,669					
Revegetation Cost	\$1,225	\$700	\$569	\$2,494					
TOTALS	\$2,361	\$3,233	\$569	\$6,163					

Expl	xploration Roads & Pads - User Input You must fill in ALL green cells and relevant blue cells in this section for each road																
	Facility Description					P	hysical (1) - l	MANDATORY					User Overrides		(Growth Media	
	Description (required)	ID Code	Underlying Ground Slope % grade	Ungraded Slope _H:1V	Cut Slope degrees	Road + Drill Pad Length ft	Road Width ft	Number of Drill Pads	Individual Sump Volume cy	Drill Pad Width ft	Drill Pad Length ft	Slope Replacement Percent %	Regrade Volume (if calculated elsewhere) cy	Disturbed Area (if calculated elsewhere) acres	Growth Media Thickness in	Distance to Growth Media Stockpile ft	Slope from Road to Stockpile % grade
1	Laydown Yard		5.0	1.3	60.0	100	12.0	1	0	75.0	100	100%					
2	Drill Pads		5.0	1.3	60.0	225	12.0	3	12	50.0	75	100%					
3	Overland Travel to Site #8		15.0	1.3	60.0	110	14.0	0	0	0.0	0	100%					
4	Proposed Roads to Site #11		15.0	1.3	60.0	50	14.0	0	0	0.0	0	100%					
5	Improved Road 15%		15.0	1.3	60.0	1,110	12.0	0	0	0.0	0	100%					
6	Improved Road 10%		10.0	1.3	60.0	110	12.0	0	0	0.0	0	100%					
7	Improved Road 5%		5.0	1.3	60.0	240	12.0	0	0	0.0	0	100%					

- 1. All Physical parameters must be input even if manual overrides for volume or area are used.
- 2. Slope replacement refers to the percentage of out volumn replaced during regrading.
 3. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivty Sheet)
 4. Sump volume will be applied to all roads on slopes <20%. On slopes >20% pad width (i.e. cut volume) should be adequate to account for sump volume.

Expl	oration Roads & Pads - User Input (cont.)	d relevant blue	cells in this se	ction for each r	oad									
			Grad	ding		Growth Media Revegetation					l			
	Description (required)	Regrade Material Condition (select)	Cut Material Type (select)	Recontouring Equipment Fleet (select)	Additional Hrs for Walk-in ⁽¹⁾	Growth Media Material Type (select)	Growth Media Placement Equipment Fleet (select)	Maximum Fleet Size (user override)	Additional Hrs for Walk-in ⁽¹⁾	Seed Mix (select)	Mulch (select)	Fertilizer (select)	Scarifying/ Ripping? (select)	Ripping Fleet (select)
1	Laydown Yard	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
2	Drill Pads	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
3	Overland Travel to Site #8	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
4	Proposed Roads to Site #11	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
5	Improved Road 15%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
6	Improved Road 10%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
7	Improved Road 5%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer

Notes:

- 1. Include one-way hours necessary to walk equipment in from drop-off point to work area

 2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Page 9 of 56 Expl. Roads & Pads Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

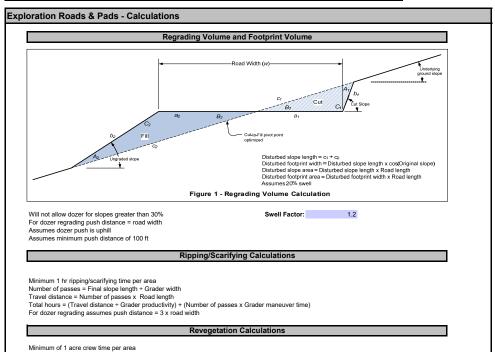
File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Exploration Roads & Pads - Cost Summary									
	Labor	Equipment	Materials	Totals					
Grading Costs	\$639	\$1,350	N/A	\$1,989					
Cover Placement Cost	\$0	\$0	N/A	\$0					
Ripping/Scarifying Cost	\$497	\$1,183	N/A	\$1,680					
Subtotal Earthworks	\$1,136	\$2,533		\$3,669					
Revegetation Cost	\$1,225	\$700	\$569	\$2,494					
TOTALS	\$2,361	\$3,233	\$569	\$6,163					



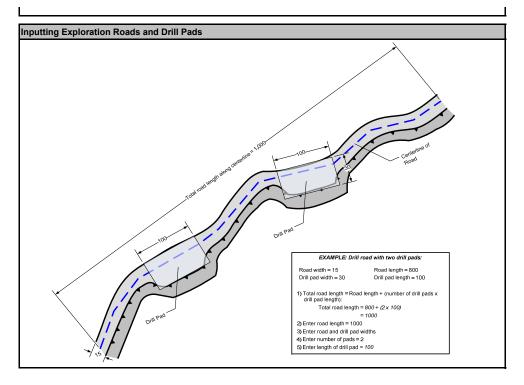
Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Exploration Roads & Pads - Cost Summary								
	Labor	Equipment	Materials	Totals				
Grading Costs	\$639	\$1,350	N/A	\$1,989				
Cover Placement Cost	\$0	\$0	N/A	\$0				
Ripping/Scarifying Cost	\$497	\$1,183	N/A	\$1,680				
Subtotal Earthworks	\$1,136	\$2,533		\$3,669				
Revegetation Cost	\$1,225	\$700	\$569	\$2,494				
TOTALS	\$2,361	\$3,233	\$569	\$6,163				



Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xism
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

- 1 4 - 5 - 1 0 5 1 0 10				
Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$639	\$1,350	N/A	\$1,989
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$497	\$1,183	N/A	\$1,680
Subtotal Earthworks	\$1,136	\$2,533		\$3,669
Revegetation Cost	\$1,225	\$700	\$569	\$2,494
TOTALS	\$2,361	\$3,233	\$569	\$6,163

Expl	oration Roads & Pads - Regrading Costs									
	Description (required)	Total Road Length ft	Total Drill Pad Length ft	Regrading Volume cy	Recontouring Fleet	Equipment Productivity cy/hr	Total Equipment Hours ⁽¹⁾ hr	Total Labor Cost \$	Total Equipment Cost	Total Regrading Cost
1	Laydown Yard	0	100	149	D6R	105	1	\$71	\$150	\$221
2	Drill Pads	0	225	185	D6R	105	2	\$142	\$300	\$442
3	Overland Travel to Site #8	110	0	19	D6R	59	1	\$71	\$150	\$221
4	Proposed Roads to Site #11	50	0	9	D6R	59	1	\$71	\$150	\$221
5	Improved Road 15%	1,110	0	142	D6R	59	2	\$142	\$300	\$442
6	Improved Road 10%	110	0	9	D6R	81	1	\$71	\$150	\$221
7	Improved Road 5%	240	0	9	D6R	105	1	\$71	\$150	\$221
-		1,620	325	522			9	\$639	\$1,350	\$1,989

⁽¹⁾ Includes walk-in time based on distance and travel speed (see Productivity sheet for speeds)

Expl	oration Roads & Pads - Growth Media Cos	ts							
	Description (required)	Growth Media Volume Cy	Growth Media Replacement Fleet	Fleet Productivity LCY/hr	Number of Trucks/ Scrapers	Total Fleet Hours	Total Labor Cost \$	Total Equipment Cost \$	Total Growth Media Cost \$
1	Laydown Yard						\$0	\$0	9
2	Drill Pads						\$0	\$0	9
3	Overland Travel to Site #8						\$0	\$0	9
4	Proposed Roads to Site #11						\$0	\$0	9
5	Improved Road 15%						\$0	\$0	\$
6	Improved Road 10%						\$0	\$0	\$
7	Improved Road 5%						\$0	\$0	9
							\$0	\$0	\$

Expl	Exploration Roads & Pads - Scarifying/Revegetation Costs										
	Description (required)	Surface Area acres	Ripping/ Scarifying Fleet	Ripping Hours hrs	Ripping Labor Costs \$	Ripping Equipment Cost \$	Total Ripping Costs \$	Revegetation Labor Cost \$	Revegetation Equipment Cost \$	Revgetation Material Cost \$	Total Revegetation Cost \$
1	Laydown Yard	0.18	D7R	1	\$71	\$169		\$175	\$100	\$106	\$381
2	Drill Pads	0.27	D7R	1	\$71	\$169	\$240	\$175	\$100	\$158	\$433
3	Overland Travel to Site #8	0.04	D7R	1	\$71	\$169	\$240	\$175	\$100	\$23	\$298
4	Proposed Roads to Site #11	0.02	D7R	1	\$71	\$169	\$240	\$175	\$100	\$12	\$287
5	Improved Road 15%	0.36	D7R	1	\$71	\$169	\$240	\$175	\$100	\$211	\$486
6	Improved Road 10%	0.03	D7R	1	\$71	\$169	\$240	\$175	\$100	\$18	\$293
7	Improved Road 5%	0.07	D7R	1	\$71	\$169	\$240	\$175	\$100	\$41	\$316
		0.97		7	\$497	\$1,183	\$1,680	\$1,225	\$700	\$569	\$2,494

Closure Cost Estimate Labor Rates

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022
File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Color Code Key							
User Input - Direct Input	Direct Input						
User Input - Pull Down List	Pull Down Selection						
Program Constant (can override)	Alternate Input						
Program Calculated Value	Locked Cell - Formula or Reference						

ZONE ADJUSTMENTS		
	N. Nevada Notice	
Cost Basis/Project Region	Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, a
Power Equipment Operators	>300 miles	\$0.00
Truck Drivers	>300 miles	\$0.00
Laborers	>300 miles	\$0.00
INDIRECT COSTS		
Unemployment (%)	3.00%	
Retirement/SS/Medicare (%)	7.65%	
Workman's Compensation (%)	13.10%	
Other Indirects		
State Payroll Tax (13),(15),(17),(1		
		Ĭ
Total Other Indirects	0.00%	

HOURLY LABOR RATE	TABLE									
EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate (\$/hr)	Zone Adjustment (\$/hr)	Hourly Wage (\$/hr)	Fringe (\$/hr)	Retirement/ Medicare (\$/hr)	Unemployment Insurance (\$/hr)	Workman's Compensation (\$/hr)	Other Indirect Costs (\$/hr)	Total (\$/hr)
Equipment Operators (\$	5/hr) (2)									
Bulldozers										
D6R		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
D6R w/ Winch					\$24.80					
D7R		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
D8R		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
D9R		\$37.51 \$37.51	\$0.00 \$0.00	\$37.51	\$24.80	\$1.13	\$2.87 \$2.87	\$4.91 \$4.91	\$0.00	\$71.22
D10R D11R		\$37.51	\$0.00	\$37.51 \$37.51	\$24.80 \$24.80	\$1.13 \$1.13		\$4.91	\$0.00 \$0.00	\$71.22 \$71.22
Wheeled Dozers		φ51.51	φ0.00	\$37.51	Ψ24.00	\$1.13	\$2.07	ψ4.51	\$0.00	φ/1.22
					201.00		1			
824G 834G					\$24.80 \$24.80					
844					\$24.80					
854G					\$24.80					
Motor Graders					↓ 2 1.00					
120H		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
14G/H		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94 \$2.94	\$5.03 \$5.03	\$0.00	\$72.28 \$72.28
16G/H		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
24M		ψου.57	ψ3.00	ψ00.07	\$24.80	ψ1.13	Ψ2.34	ψ3.03	ψ0.00	ψ1 2.20
Track Excavators					72					
312C		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
320C		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
325C		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
330C		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
345B		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
365BL					\$24.80					
385BL		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
Scrapers										
631G		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
637G		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
Wheeled Loaders										
924G		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
928G		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
950G		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
966G		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
972G		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
980G		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
988G		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
990 992G		\$38.37	\$0.00	\$38.37	\$24.80 \$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
994D		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$12.28
L2350					\$24.80					
Shovels					Ψ21.00					
				-	¢24.90		1		1	
PC2000 PC3000					\$24.80 \$24.80					
PC4000					\$24.80					
PC5500					\$24.80					
PC8000					\$24.80					
Hydraulic Hammers										
H-120 (fits 325)										
H-160 (fits 345)										
H-180 (fits 365/385)										
Demolition Shears										
S340 (fits 322/325/330)										
S365 (fits 330/345)										
S390 (fits 365/385)										
Demolition Grapples					_					
G315 (fits 322/325)										
G320 (fits 325/330)										
G330 (fits 345/365)										

Closure Cost Estimate Labor Rates

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022
File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Color Code Key							
User Input - Direct Input	Direct Input						
User Input - Pull Down List	Pull Down Selection						
Program Constant (can override)	Alternate Input						
Program Calculated Value	Locked Cell - Formula or Reference						

ZONE ADJUSTMENTS			
	N. Nevada Notice		-
Cost Basis/Project Region	Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Store	y, Washoe, and W
Power Equipment Operators	>300 miles	\$0.00	
Truck Drivers	>300 miles	\$0.00	
Laborers	>300 miles	\$0.00	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	13.10%		
Other Indirects			
State Payroll Tax (13),(15),(17),(1			
•			
Total Other Indirects	0.00%		

Total Other Indirects	0.00%									
HOURLY LABOR RATE	TABLE									
Other Equipment										
420D 4WD Backhoe		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
428D 4WD Backhoe		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
CS533E Vibratory Roller		\$36.92	\$0.00	\$36.92	\$24.80	\$1.11	\$2.82	\$4.84	\$0.00	\$70.4
CS633E Vibratory Roller					\$24.80					
CP533E Sheepsfoot Compactor					\$24.80					
CP633E Sheepsfoot Compactor					\$24.80					
Light Truck - 1.5 Ton					\$24.80					
Supervisor's Truck					\$24.80					
Flatbed Truck					\$24.80					
Air Compressor + tools		\$35.46	\$0.00	\$35.46	\$24.80	\$1.06	\$2.71	\$4.65	\$0.00	\$68.68
Welding Equipment		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
Heavy Duty Drill Rig		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
Pump (plugging) Drill Rig		\$37.51	\$0.00	\$37.51	\$24.80	\$1.13	\$2.87	\$4.91	\$0.00	\$71.22
Concrete Pump					\$24.80					
Gas Engine Vibrator		\$36.92	\$0.00	\$36.92	\$24.80	\$1.11	\$2.82	\$4.84	\$0.00	\$70.49
Generator 5KW					\$24.80					
HDEP Welder (pipe or liner)					\$24.80					
5 Ton Crane		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
20 Ton Crane		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
50 Ton Crane		\$38.37	\$0.00	\$38.37	\$24.80	\$1.15	\$2.94	\$5.03	\$0.00	\$72.28
120 Ton Crane					\$24.80					
NOTES: (1) Equipment Type: (2) Equipment Operator Source:	Catepillar model or equival D-B NV20220002 3/11/202									
(2) Equipment Operator Source: (3) Zone Basis:										
Truck Drivers (\$/hr) (4)	Tom Washer Co. Courte	,430								
725	ruck Driver > 25 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
730	ruck Driver > 25 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
735	ruck Driver > 25 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
740	ruck Driver > 25 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
769D	ruck Driver > 25 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
773E	ruck Driver > 25 yus 1	\$31.30	\$0.00	\$31.30	\$4.16	\$0.93	\$2.41	\$4.13	\$0.00	\$43.14
777D	ruck Driver > 60 yds	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
785C	ruck Driver > 60 yus 1	\$31.30	\$0.00	\$31.30	\$4.16	\$0.93	\$2.41	\$4.13	\$0.00	\$43.14
793C					\$4.16					
797B					\$4.16					
613E (5,000 gal) Water Wagon	ter Truck > 2,500 gall	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
621E (8,000 gal) Water Wagon	ter Truck > 2,500 gall	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
777D Water Truck	1100K > 2,000 gall	φ31.30	φυ.υυ	φυ1.00	\$4.16	φυ.93	φ∠.+1	φ4.13	90.00	φ 4 υ. 14
785C Water Truck					\$4.16			-	+	
Dump Truck (10-12 yd3)	ruck Driver > 8 vds <	\$31.50	\$0.00	\$31.50	\$4.16	\$0.95	\$2.41	\$4.13	\$0.00	\$43.14
Dump Truck (10-12 yd3)	Tuck Driver > 6 yus 4	φ31.30	\$0.00	φ31.30	Φ4.10	\$0.95	\$2.41	φ4.13	φ0.00	ψ43.14
NOTES:										
(4) Truck Driver Source:	D-B SUNV2017-001 10/1/2	2018								
(4) Truck Driver Source: (5) Zone Basis:										
(3) ZUIIE BASIS.										

3/2/2023	
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Closure Cost Estimate Labor Rates

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022
File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS		
	N. Nevada Notice	
Cost Basis/Project Region	Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, a
Power Equipment Operators	>300 miles	\$0.00
Truck Drivers	>300 miles	\$0.00
Laborers	>300 miles	\$0.00
INDIRECT COSTS		
Unemployment (%)	3.00%	
Retirement/SS/Medicare (%)	7.65%	
Workman's Compensation (%)	13.10%	
Other Indirects		
State Payroll Tax (13),(15),(17),(17)		
·		
Total Other Indirects	0.00%	

OURLY LABOR RATE TABLE												
Laborers (\$/hr) (6,7)												
General Laborer	Group 1	\$28.55	\$0.00	\$28.55	\$14.77	\$0.86	\$2.18	\$3.74	\$0.00	\$50.10		
Skilled Laborer	Group 4	\$29.05	\$0.00	\$29.05	\$14.77	\$0.87	\$2.22	\$3.81	\$0.00	\$50.72		
Driller's Helper	Group 3	\$28.80	\$0.00	\$28.80	\$14.77	\$0.86	\$2.20	\$3.77	\$0.00	\$50.41		
Rodmen (reinforcing concrete)	Group 1	\$28.55	\$0.00	\$28.55	\$14.77	\$0.86	\$2.18	\$3.74	\$0.00	\$50.10		
Cement finisher	Group 3	\$28.80	\$0.00	\$28.80	\$14.77	\$0.86	\$2.20	\$3.77	\$0.00	\$50.41		
Carpenter		\$33.63	\$0.00	\$33.63	\$18.33	\$1.01	\$2.57	\$4.41	\$0.00	\$59.95		
NOTES:	D-B LABO0169-034 10/1/2	2024										

D 1 1 1 1	D : (M) (A) (A) (A) (A)							
(8) Zone Basis:	From Washoe Co. Courthouse							
(7) Carpenter Source:	D-B CARP0971-013 7/1/2021							
	D-B LABO0169-034 10/1/2021							
NOTES:								

Project Management and Te	chnical Labor (\$/hr)	(9)						
Project Manager	\$68.63	\$68.63	\$14.77	\$2.06	\$5.25	\$8.99	\$0.00	\$99.6
Foreman	\$63.56	\$63.56	\$14.77	\$1.91	\$4.86	\$8.33	\$0.00	\$93.4
Field Geologist/Engineer	\$113.13	\$113.13	\$14.77	\$3.39	\$8.65	\$14.82	\$0.00	\$154.7
Field Tech/Sampler	\$76.77	\$76.77	\$14.77	\$2.30	\$5.87	\$10.06	\$0.00	\$109.7
Range Scientist	\$92.93	\$92.93	\$14.77	\$2.79	\$7.11	\$12.17	\$0.00	\$129.7
Senior Planning Engineer			\$14.77					
Project Engineer			\$14.77					
Mechanic/Fitter			\$14.77					
			\$14.77					
			\$14.77					
			\$14.77					
			\$14.77					
		•	•					

NOTES:							
	R.S.Means 2022 Q2 (01 3						
	R.S.Means 2022 Q2 (01 3			justed for Elko, NV			
(9) Techical Labor Source:	Wood plc 2022 Adjusted f	or Zone,Tax and	ins.		Ì		
Other Labor Source:					1		
Other Labor Source:							
†Additional User Markups							
(These are added by the user to the							
base rate to account for site-specific							
conditions or corporate requirements)							

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Closure Cost Estimate Equipment Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration
Date of Submittal: December 2022
File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xism
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xism
Monthly Rental Basis:

40
brs month

EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
D6R	\$4,500.00	\$112.50	\$37.41	\$149.9
D6R w/ Winch	\$4,500.00	\$112.50	\$21.13	\$21.1
D7R	\$5,090.00	\$127.25	\$41.63	\$168.8
D8R D9R	\$9,120.00 \$12,215.00	\$228.00 \$305.38	\$55.87 \$79.51	\$283.8 \$384.8
D10R	\$16,880.00	\$422.00	\$102.07	\$524.0
D11R	N/A	\$0.00	\$89.57	\$89.5
Wheeled Dozers 824G			\$36.34	\$36.3
834G			\$42.59	\$42.5
844			\$50.70	\$50.7
854G Motor Graders			\$64.22	\$64.2
120H	\$4,240.00	\$106.00	\$41.60	\$147.6
14G/H	\$6,045.00	\$151.13	\$60.98	\$212.1
16G/H 24M	N/A	\$0.00	\$76.22 \$52.39	\$76.2 \$52.3
Track Excavators			\$32.39	φυ 2. 3
312C	\$2,015.00	\$50.38	\$16.98	\$67.3
320C	\$2,750.00	\$68.75	\$28.35	\$97.1
325C 330C	\$3,565.00 \$4,920.00	\$89.13 \$123.00	\$35.66 \$43.20	\$124.7 \$166.2
345B	\$6,490.00	\$162.25	\$53.93	\$216.1
365BL			\$44.62	\$44.6
385BL	\$9,965.00	\$249.13	\$84.28	\$333.4
GCrapers 631G	\$7,845.00	\$196.13	\$90.93	\$287.0
637G	\$7,043.00 N/A	\$0.00	\$80.28	\$80.2
Wheeled Loaders			1	
924G 928G	\$1,930.00 \$2,060.00	\$48.25 \$51.50	\$25.62 \$28.52	\$73.8 \$80.0
950G	\$3,310.00	\$82.75	\$37.34	\$120.0
966G	\$4,880.00	\$122.00	\$49.29	\$171.2
972G 980G	\$6,280.00 \$6.280.00	\$157.00 \$157.00	\$55.48 \$62.03	\$212.4 \$219.0
988G	\$6,280.00 \$10,390.00	\$157.00 \$259.75	\$88.81	\$219.0
990			\$57.46	\$57.4
992G	N/A	\$0.00	\$77.74	\$77.7
994D L2350			\$121.68 \$223.08	\$121.6 \$223.0
Shovels				
PC2000			\$125.06	\$125.0
PC3000 PC4000			\$169.00 \$236.60	\$169.0 \$236.6
PC5500			\$402.22	\$402.2
PC8000			\$503.62	\$503.6
Hydraulic Hammers	\$2,505.00	\$62.63	\$7.00	\$69.6
H-120 (fits 325) H-160 (fits 345)	\$2,505.00	\$62.63 \$123.00	\$13.68	\$136.6
H-180 (fits 365/385)	\$6,490.00	\$162.25	\$16.21	\$178.4
Demolition Shears				***
S340 (fits 322/325/330) S365 (fits 330/345)				\$0.0 \$0.0
S390 (fits 365/385)				\$0.0
Demolition Grapples				80.0
G315 (fits 322/325) G320 (fits 325/330)				\$0.0 \$0.0
G330 (fits 345/365)				\$0.0
Other Equipment				
420D 4WD Backhoe 428D 4WD Backhoe	\$1,190.00 \$1,485.00	\$29.75 \$37.13	\$21.07 \$20.91	\$50.8 \$58.0
CS533E Vibratory Roller	\$1,375.00	\$34.38	\$12.68	\$47.0
CS633E Vibratory Roller			\$16.06	\$16.0
CP533E Sheepsfoot Compactor CP633E Sheepsfoot Compactor			\$12.68 \$16.06	\$12.6
Light Truck - 1.5 Ton	\$1,679.00	\$41.98	\$16.06 \$5.42	\$16.0 \$47.4
Supervisor's Truck	\$886.00	\$22.15	\$3.73	\$25.8
Flatbed Truck	\$1,679.00	\$41.98	\$17.84	\$59.8
Air Compressor + tools Welding Equipment	\$1,337.00 \$727.00	\$33.43 \$18.18	\$3.38 \$6.76	\$36.8 \$24.9
Heavy Duty Drill Rig	\$5,745.00	\$143.63	\$40.56	\$184.1
Pump (plugging) Drill Rig	\$5,745.00	\$143.63	\$33.80	\$177.4
	\$3,735.00	\$93.38	\$33.80 \$3.38	\$127.1 \$6.8
Concrete Pump Gas Engine Vibrator	\$137.40	\$3 44		\$14.6
Gas Engine Vibrator Generator 5KW	\$137.40 \$384.80	\$3.44 \$9.62	\$5.07	
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner)	\$384.80 \$1,504.00	\$9.62 \$37.60	\$6.76	
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane	\$384.80 \$1,504.00 \$1,716.00	\$9.62 \$37.60 \$42.90	\$6.76 \$10.14	\$53.0
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane	\$384.80 \$1,504.00	\$9.62 \$37.60	\$6.76 \$10.14 \$13.52 \$15.89	\$53.0 \$271.7 \$274.1
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00	\$9.62 \$37.60 \$42.90 \$258.25	\$6.76 \$10.14 \$13.52	\$53.0 \$271.7 \$274.1
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58	\$53.0 \$271.7 \$274.1 \$17.5
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00	\$9.62 \$37.60 \$42.90 \$258.25	\$6.76 \$10.14 \$13.52 \$15.89	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9
Gas Engine Vibrator Generator 5KW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1720 Ton Crane 1720 Ton Crane 1730 Ton Crane 1735	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 1275 736 737	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73	\$44.3 \$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0
Gas Engine Vibrator Generator SKW HDEP Weider (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 1725 Ton Crane 1725 Ton Tone 1746 Tone 1746 Tone 1747 Tone 1748 Tone 1749 Tone	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$167.50	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2 \$31.2
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 1275 736 737	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1725 730 740 7460 773E 7777 778E 7777 7785	\$384.80 \$1.504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 N/A	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$167.50 \$0.00	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$39.72 \$56.62 \$81.97	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2 \$31.2 \$39.7 \$56.6 \$81.9
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 1270 Ton Crane 1725 730 735 740 769D 7773E 7777D 785C	\$384.80 \$1.504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 N/A	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$167.50 \$0.00	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$56.62 \$56.62	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2 \$31.2 \$39.7 \$56.6 \$81.9
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1725 730 735 740 7660 773E 7777 785 7836 7836 7836 7836	\$394.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$6,700.00 \$6,700.00	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$0.00 \$0.00	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$39.72 \$66.62 \$19.97 \$141.12	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2 \$31.2 \$39.7 \$56.6 \$81.9 \$141.1
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 1270 Ton Crane 1725 730 735 740 769D 7773E 7777D 785C	\$384.80 \$1.504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 N/A	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$167.50 \$0.00	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$56.62 \$56.62	\$53.0 \$271.7 \$274.1 \$17.5 \$216.9 \$218.6 \$232.0 \$234.2 \$31.2 \$39.7 \$56.6
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1725 730 736 737 740 7690 7775 7770 785C 736 737 737 737 738 739 739 739 739 739 739 739 739 739 739	\$384.80 \$1.504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$4,700.00 \$1,700	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$107.50 \$0.00 \$0.00	\$6.76 \$10.14 \$13.52 \$13.89 \$17.58 \$44.42 \$51.11 \$64.55 \$66.73 \$31.27 \$56.62 \$56.62 \$141.12 \$198.58 \$31.83 \$53.37 \$53.37	\$53.0 \$271.7 \$274.4 \$17.5 \$218.6 \$218.6 \$232.0 \$234.2 \$33.2 \$56.6 \$1.9 \$198.5 \$101.8 \$171.8
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane 1725 Ton Crane 1725 Ton Crane 1726 1736 1738 1740 1740 1758 1779 1770 1785 1786 1786 1786 1786 1786 1787 1787 1788 1787 1788 1788	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$7,000.00 \$0,700.00 \$1,000	\$9.62 \$37.60 \$42.90 \$259.25 \$259.25 \$167.50 \$167.50 \$167.50 \$0.00 \$0.00 \$70.03 \$710.51	\$6.76 \$10.14 \$13.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$39.22 \$56.62 \$19.58 \$19.58 \$31.83 \$31.97 \$31	\$53.0.\$ \$271.7.\$ \$274.1.\$ \$17.5.\$ \$216.9.\$ \$218.6.\$ \$232.0.\$ \$339.7 \$312.5 \$312.5 \$31.2.\$ \$31.
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1275 730 736 740 7690 7778 785 7770 786C 7938 7938 615E (5,000 gai) Water Wagon 621E (6,000 gai) Water Wagon	\$384.80 \$1.504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$4,700.00 \$1,700	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$107.50 \$0.00 \$0.00	\$6.76 \$10.14 \$13.52 \$13.89 \$17.58 \$44.42 \$51.11 \$64.55 \$66.73 \$31.27 \$56.62 \$56.62 \$141.12 \$198.58 \$31.83 \$53.37 \$53.37	\$53.0 \$271.7 \$274.4 \$17.5 \$218.6 \$218.6 \$232.0 \$234.2 \$33.2 \$56.6 \$1.9 \$198.5 \$101.8 \$171.8
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 20 Ton Crane 120 Ton Crane 120 Ton Crane 120 Ton Crane 1275 730 735 740 7755 740 7778 785C 789C 789C 789C 789C 793C 793C 793C 797D 813E (5,000 gal) Water Wagon 613E (5,000 gal) Water Wagon 612E (8,000 gal) Water Wagon 777D Water Truck 785C Water Truck	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$6,700.00 \$4,700.00 \$4,740.27 \$2,801.24 \$4,740.27	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$0.00 \$0.00 \$70.03 \$118.51	\$6.76 \$10.14 \$11.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$39.72 \$56.62 \$1141.12 \$144.12 \$19.55 \$6.62 \$1141.12 \$19.55 \$1141.12 \$19.55 \$115,89 \$115,	\$53.0 \$271.7 \$271.7 \$271.7 \$271.5 \$216.5 \$272.4 \$17.5 \$216.5 \$218.6 \$218.6 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$311
Gas Engine Vibrator Generator SKW HDEP Welder (pipe or liner) 5 Ton Crane 20 Ton Crane 50 Ton Crane 120 Ton Crane 120 Ton Crane 1275 Ton Crane 1276 Ton Crane 1277 Water Truck 1277 Water	\$384.80 \$1,504.00 \$1,716.00 \$10,330.00 \$10,330.00 \$6,700.00 \$6,700.00 \$6,700.00 \$7,000.00 \$0,700.00 \$1,000	\$9.62 \$37.60 \$42.90 \$258.25 \$258.25 \$167.50 \$167.50 \$167.50 \$0.00 \$0.00 \$0.00 \$70.03 \$118.51	\$6.76 \$10.14 \$11.52 \$15.89 \$17.58 \$49.42 \$51.11 \$64.55 \$66.73 \$31.27 \$39.72 \$56.62 \$1141.12 \$144.12 \$19.55 \$6.62 \$1141.12 \$19.55 \$1141.12 \$19.55 \$115,89 \$115,	\$53.0 \$271.7 \$271.7 \$271.7 \$271.5 \$216.5 \$272.4 \$17.5 \$216.5 \$218.6 \$218.6 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$234.2 \$311

Closure Cost Estimate Equipment Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration
Date of Submittal: December 2022
File Name: REX_NOL_SRCE_Ver_1_4_1_017_NVb.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm

EQUIPMENT TYPE	PM Cost Per Hour ⁽¹⁾	Under carriage or Tires (2)	G.E.T Consumption (3)	Fuel Use Rate gal/hr (4)	Cost@ 3.38/gal	Total Hourly Equipment Cost
Bulldozers					_	
D6R w/ Winch	\$9.82		\$6.46	6.25 6.25	\$21.13 \$21.13	\$37.4 \$21.1
D7R	\$9.82		\$6.46	7.50	\$25.35	\$41.6
D8R D9R	\$10.36 \$11.82		\$12.55 \$19.52	9.75 14.25	\$32.96 \$48.17	\$55.8° \$79.5°
D10R	\$13.91		\$27.32	18.00	\$60.84	\$102.0
D11R Wheeled Dozers	N/A		N/A	26.50	\$89.57	\$89.5
824G		\$0.00		10.75	\$36.34	\$36.3
834G		\$0.00		12.60	\$42.59	\$42.5
844 854G		\$0.00 \$0.00		15.00 19.00	\$50.70 \$64.22	\$50.70 \$64.23
Motor Graders						
120H	\$5.97	\$8.67		4.00	\$13.52	\$41.6
14G/H 16G/H	\$7.44 \$7.78	\$13.00 \$16.57	\$19.42 \$26.52	6.25 7.50	\$21.13 \$25.35	\$60.9 \$76.2
24M				15.50	\$52.39	\$52.3
Track Excavators 312C	05.04		65.00	4.00	60.05	640.0
320C	\$5.61 \$5.99		\$5.02 \$5.80	1.88 4.90	\$6.35 \$16.56	\$16.9 \$28.3
325C	\$6.03		\$7.32	6.60	\$22.31	\$35.6
330C 345B	\$7.43 \$9.86		\$8.05 \$8.24	8.20 10.60	\$27.72 \$35.83	\$43.2 \$53.9
365BL			\$0.24	13.20	\$44.62	\$44.6
385BL	\$8.27		\$16.86	17.50	\$59.15	\$84.2
Scrapers 631G	\$9.97	\$19.69	\$10.57	15.00	\$50.70	\$90.9
637G	\$9.97 N/A	\$0.00		23.75	\$80.28	\$80.2
Wheeled Loaders						
924G 928G	\$4.96 \$5.33	\$5.60 \$5.60	\$5.76 \$5.76	2.75 3.50	\$9.30 \$11.83	\$25.6 \$28.5
950G	\$6.63	\$6.47	\$10.72	4.00	\$13.52	\$37.3
966G 972G	\$6.91	\$9.49	\$13.45 \$17.04	5.75	\$19.44 \$21.13	\$49.2 \$55.4
972G 980G	\$7.82 \$7.82	\$9.49 \$11.82	\$17.04 \$17.04	6.25 7.50	\$21.13 \$25.35	\$55.4 \$62.0
988G	\$14.64	\$15.01	\$18.26	12.10	\$40.90	\$88.8
990 992G	N/A	\$0.00	N/A	17.00 23.00	\$57.46 \$77.74	\$57.4 \$77.7
994D	IWA	\$0.00	N/A	36.00	\$121.68	\$121.6
L2350				66.00	\$223.08	\$223.0
PC2000		1		37.00	\$125.06	\$125.0
PC3000				50.00	\$169.00	\$169.0
PC4000				70.00	\$236.60	\$236.6
PC5500 PC8000				119.00 149.00	\$402.22 \$503.62	\$402.2 \$503.6
Hydraulic Hammers					,	
H-120 (fits 325)	N/A		\$7.00			\$7.0
H-160 (fits 345) H-180 (fits 365/385)	N/A N/A		\$13.68 \$16.21			\$13.6 \$16.2
Demolition Shears						
S340 (fits 322/325/330)	N/A N/A					\$0.0
S365 (fits 330/345) S390 (fits 365/385)	N/A N/A					\$0.0 \$0.0
Demolition Grapples						
G315 (fits 322/325) G320 (fits 325/330)	N/A N/A					\$0.0 \$0.0
G330 (fits 345/365)	N/A					\$0.0
Other Equipment		***	0.11		*****	***
420D 4WD Backhoe 428D 4WD Backhoe	\$5.52 \$5.23	\$0.94 \$0.94	\$4.47 \$4.60	3.00	\$10.14 \$10.14	\$21.0 \$20.9
CS533E Vibratory Roller			N/A	3.75	\$12.68	\$12.6
CS633E Vibratory Roller CP533E Sheepsfoot Compactor			N/A N/A	4.75 3.75	\$16.06 \$12.68	\$16.0 \$12.6
CP633E Sheepsfoot Compactor			N/A	4.75	\$12.06	\$16.0
Light Truck - 1.5 Ton		\$0.35	N/A	1.50	\$5.07	\$5.4
Supervisor's Truck Flatbed Truck		\$0.35 \$1.95	N/A N/A	1.00 4.70	\$3.38 \$15.89	\$3.7 \$17.8
Air Compressor + tools		Ţ7.00	N/A	1.00	\$3.38	\$3.3
Welding Equipment Heavy Duty Drill Rig			N/A N/A	2.00	\$6.76	\$6.7
Pump (plugging) Drill Rig			N/A N/A	12.00 10.00	\$40.56 \$33.80	\$40.5 \$33.8
Concrete Pump			N/A	10.00	\$33.80	\$33.8
Gas Engine Vibrator Generator 5KW			N/A N/A	1.00 1.50	\$3.38 \$5.07	\$3.3 \$5.0
HDEP Welder (pipe or liner)			N/A	2.00	\$6.76	\$6.7
5 Ton Crane 20 Ton Crane			N/A N/A	3.00	\$10.14	\$10.1 \$13.5
20 Ton Crane 50 Ton Crane			N/A N/A	4.00 4.70	\$13.52 \$15.89	\$13.5 \$15.8
120 Ton Crane			N/A	5.20	\$17.58	\$17.5
725	\$10.98	\$18.55	\$4.01	4.70	\$15.89	***
730	\$10.98 \$10.98	\$18.55 \$18.55	\$4.01 \$4.01	5.20	\$15.89 \$17.58	\$49.4 \$51.1
735	\$10.98	\$24.72	\$4.01	7.35	\$24.84	\$64.5
740 769D	\$10.98 N/A	\$26.90 \$0.00	\$4.01 N/A	7.35 9.25	\$24.84 \$31.27	\$66.7 \$31.2
773E	N/A	\$0.00	N/A	11.75	\$39.72	\$39.7
777D 785C	N/A	\$0.00	N/A	16.75 24.25	\$56.62 \$81.97	\$56.6 \$81.9
785C 793C				24.25 41.75	\$81.97 \$141.12	\$81.9 \$141.1
797B				58.75	\$198.58	\$198.5
613E (5,000 gal) Water Wagon 621E (8,000 gal) Water Wagon	\$6.59 \$9.32	\$4.96 \$7.71		6.00 10.75	\$20.28 \$36.34	\$31.8 \$53.3
621E (8,000 gal) Water Wagon 777D Water Truck	\$9.32	\$1./1		16.75	\$36.34 \$56.62	\$53.3 \$56.6
785C Water Truck				24.25	\$81.97	\$81.9
Dump Truck (10-12 yd3) (5) lotes:	N/A	\$1.12	N/A	5.20	\$17.58	\$18.7
(1) PM Source	: Cashman Equipment 0	Company (July 2022) unless noted			
(2) Undercarriage Source (3) G.E.T. Source	e: Purcell Tire Quote: 202	22				
			r unitess floted			

Closure Cost Estimate Equipment Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration
Date of Submittal: December 2022
File Name: REX_NOL_SRCE_Ver_1_4_1_017_NVb.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm

Equipment	Tire Size	# of Tires Per Piece	Cost Per Tire	Tire Cost ⁽¹⁾⁽²⁾	Life Expectency Hours	Tire Cost per
Equipment Bulldozers	Tire Size	of Equipment	Per Tire	Tire Cost (1)(2)	(Low/Zone A) (3)	Hour
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R D9R			N/A N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		\$0.00	3,500	\$0.0
834G 844	35/65-R33 45/65-R39	4		\$0.00 \$0.00	3,500 3,500	\$0.0 \$0.0
854G	45/65-R45	4		\$0.00	3,500	\$0.0
Motor Graders						
120H	13PR24	6	\$5,059.00	\$30,354.00	3,500	\$8.6
14G/H	20.5R25	6	\$7,581.00	\$45,486.00	3,500	\$13.0
16G/H 24M	23.5R25 23.5R25	6	\$9,668.00	\$58,008.00 \$0.00	3,500 3,500	\$16.5
Track Excavators	20.51125	, ,		\$0.00	3,300	
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B 365BL			N/A N/A			
385BL			N/A			
Scrapers						
631G	37.25R35	4	\$19,690.00	\$78,760.00	4,000	\$19.6
637G	37.25R35	4	N/A	\$0.00	4,000	\$0.0
Wheeled Loaders	47 FD05		60,000,00	60E 000 00	4 500	
924G 928G	17.5R25 17.5R25	4	\$6,300.00 \$6,300.00	\$25,200.00 \$25,200.00	4,500 4,500	\$5.6 \$5.6
950G	26.5R25	4	\$7,283.00	\$29,132.00	4,500	\$6.4
966G	26.5R25	4	\$10,680.00	\$42,720.00	4,500	\$9.4
972G	26.5R25	4	\$10,680.00	\$42,720.00	4,500	\$9.4
980G	29.5R25	4	\$13,298.00	\$53,192.00	4,500	\$11.8
988G 990	35/65-33 41.25/70-39	4	\$16,887.00	\$67,548.00 \$0.00	4,500 4,500	\$15.0
992G	45/65R45	4	N/A	\$0.00	4,500	\$0.0
994D	55/85R57	4		\$0.00	4,500	
L2350	55/85R57	4		\$0.00	4,500	
Shovels		1				
PC2000 PC3000			N/A N/A			
PC4000			N/A			
PC5500			N/A			
PC8000			N/A			
Hydraulic Hammers	1					
H-120 (fits 325)			N/A			
H-160 (fits 345) H-180 (fits 365/385)			N/A N/A			
Demolition Shears						
S340 (fits 322/325/330)			N/A			
S365 (fits 330/345)			N/A			
S390 (fits 365/385)			N/A			
Demolition Grapples		ı	N/A		1	
G315 (fits 322/325) G320 (fits 325/330)			N/A			
G330 (fits 345/365)			N/A			
Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24		\$1,409.50	\$2,819.00	3,000	\$0.9
428D 4WD Backhoe	340/80R18-16.9R28	2	\$1,409.50	\$2,819.00	3,000	\$0.9
CS533E Vibratory Roller CS633E Vibratory Roller			N/A N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepsfoot Compactor			N/A			
Light Truck - 1.5 Ton		4	266	\$1,064.00	3,000	\$0.3
Supervisor's Truck Flatbed Truck		4 22	266 266	\$1,064.00 \$5,852.00	3,000 3,000	\$0.3 \$1.9
Air Compressor + tools		22	266 N/A	φυ,85∠.00	3,000	\$1.8
Welding Equipment			N/A			
Heavy Duty Drill Rig		4		\$0.00	3,000	
Pump (plugging) Drill Rig		4		\$0.00	3,000	
Concrete Pump			N/A N/A			
Gas Engine Vibrator Generator 5KW			N/A N/A			
HDEP Welder (pipe or liner)			N/A			
5 Ton Crane		4		\$0.00	3,000	
20 Ton Crane		4		\$0.00	3,000	
50 Ton Crane 120 Ton Crane		6		\$0.00 \$0.00	3,000 3,000	
Trucks	1			φυ.00	5,500	
725	23.5R25	6	\$6,182.00	\$37,092.00	2,000	\$18.5
730	23.5R25	6	\$6,182.00	\$37,092.00	2,000	\$18.5
735	26.5R25	6	\$8,239.00	\$49,434.00	2,000	\$24.7
740 769D	29.5R25 18.00R33	6	\$8,966.00 N/A	\$53,796.00 \$0.00	2,000 6,000	\$26.9 \$0.0
773E	18.00R33 24.00R35	6	N/A N/A	\$0.00	5,000	\$0.0
777D	27.00R49	6	N/A	\$0.00	5,000	\$0.0
785C	33.00R51	6		\$0.00	4,000	
793C	40.00R57	6		\$0.00	4,000	
797B	40.00R57	6		\$0.00	4,000	
613E (5,000 gal) Water Wagon	23.5R25	6	\$4,959.00	\$29,754.00	6,000	\$4.9 \$7.7
	33.25R29 27.00R49	6	\$10,282.00	\$61,692.00 \$0.00	8,000 5,000	\$7.7
621E (8,000 gal) Water Wagon 777D Water Truck					2,000	
777D Water Truck 785C Water Truck	33.00R51	6		\$0.00	4,000	
777D Water Truck			\$672.00	\$0.00 \$6,720.00	4,000 6,000	\$1.1

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Revegetation Materials						
	Seed Mixes					
Seed Mix	ion	Cost/Acre				
None						
Mix 1	Basins		\$302.50			
Mix 2 Mix 3	Low Hills		\$332.75 \$363.00			
	Uplands					
Mix 4	Riparian or Custom		\$393.25			
User Mix 1 User Mix 2	West End Seed Mix C	0	\$586.50			
User Mix 3 User Mix 4						
OSEI IVIIX 4	Cost/lb	lbs/Acre	Cost/Acre			
User Mix 5 (from Seed Mix sheet)		\$25.97	\$0.00			
Notes:		Ψ20.01	ψ0.00			
	West End Seed Mix C	O guote from Gran	ite Seed			
	January 6, 2023 email					
	•					
	Mulch					
Item	Mulch Cost/lb	lbs/Acre	Cost/Acre			
Item		lbs/Acre	Cost/Acre			
None	Cost/lb	Ibs/Acre	Cost/Acre			
None Straw Mulch	\$0.20	lbs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	Cost/lb	lbs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	\$0.20	Ibs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	\$0.20	Ibs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	\$0.20	Ibs/Acre	Cost/Acre			
None Straw Mulch	\$0.20	Ibs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	\$0.20	lbs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch Fimber Mulch	\$0.20 \$0.36	lbs/Acre	Cost/Acre			
None Straw Mulch Hydro Mulch	\$0.20 \$0.36					
None Straw Mulch Hydro Mulch Fimber Mulch	\$0.20 \$0.36					
None Straw Mulch Hydro Mulch Timber Mulch	\$0.20 \$0.36					
None Straw Mulch Hydro Mulch Fimber Mulch	\$0.20 \$0.36					

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

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File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

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Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

Amendments											
Item	Cost/lb	lbs/Acre	Cost/Acre								
None											
Organic Matter	\$0.80		\$0.00								
Treated Sludge											
Chemical	\$0.67		\$0.00								
Notes:	Western Nevda Sup	oly \$33.30 per 50 lb. l	oag 15-15-15 (Adjuste	ed from 20							

20 of 56 Material Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level **Cost Estimate Type: Surety**

Description	Cost/50lb bag	Units	Cost/unit*
Cement	\$8.11	CV	\$38.63
Grout (Low Grade Bentonite)	\$9.95	cy	\$47.38
Inert Material/Cuttings		су	
		су	
		су	

at 43 gall

* Assumes 1 bag mixes with water to make 0.21 y3 or 0.16 m3 of grout/cement slurry.

Monitoring Costs		
Description	Units	Cost/unit
Monitor Well Pump	ea.	\$3,050.81
Sampling Supplies	ea.	\$7.13
Water Analysis (Profile I) (1)	ea.	\$411.00
Leach Test (MWMP) w/ analysis	ea.	\$483.40
ABA + S speciation	ea.	\$157.00
WAD Cyanide in water	ea.	\$61.00
Water Analysis (Profile II) (1)	ea.	\$461.00
	ea.	
(1) WET Lab, Reno, Nevada (2022)		
Well pump and Sample supply cost		
Original source unknown.		

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm **Cost Estimate Type: Surety** Cost Basis: N. Nevada Notice Level

Fuel, Etc.									
Description	Units	Cost/unit							
Off-road Diesel - delivered (1)	\$/gal	\$3.380							
Pickup Truck Mileage	\$/mi	\$0.585							
Electical Power	\$/kWh	\$0.090							
(1) Source: Oil Price Infomration Se	ervice . average annua	al cost including freigh							
Source: Federal Government Vehi									
Source: NIV Energy (2022) \$0.0907									

nt to Nevada (2022).

Source: NV Energy (2022) \$0.08974

22 of 56 Material Costs

Revegetation Method										
Slopes										
Disturbance Type	Seed Application Method	Labor	Equipment	Total						
		Cost/Acre	Cost/Acre	Cost/Acre						
Waste Rock Dumps	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Heap Leach	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Tailings	Hand Broadcast	\$175.00	\$100.00	\$275.00						
Quarries & Borrow Pits	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
	Flat Areas and Undi	fferentiated								
Disturbance Type	Seed Application Method	Labor	Equipment Cost/Acre	Total						
		Cost/Acre		Cost/Acre						
Exploration Trenches	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Exploration Roads	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Waste Rock Dumps	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Heap Leach	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Tailings	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Quarries & Borrow Pits	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Roads	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Pits	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Haul Material	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Foundations & Buildings	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Sediment & Drainge Control	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Process Ponds	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Landfills	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Yards, Etc.	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						
Revegetation Maintenance	Mechanical Broadcast	\$175.00	\$100.00	\$275.00						

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Conc 12 in (300 mm) thick 02220-130-2500 S.F. B-9 100

Date of Submittal: December 2022

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Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

evegetation										
	Means Number	Unit	Crew	Daily Output	Daily Output User	Materials	Labor	Equipment	Total	Notes
Seeding - Broadcast Hand (1)		acres					\$175.00	\$100.00	\$275.00	
Seeding - Broadcast Mechanical (1)		acres					\$175.00	\$100.00	\$275.00	
Seeding - Drill (1)		acres		365			\$175.00	\$175.00	\$350.00	
Seeding - Hydroseeding (1)				365			\$338.00	\$275.00	\$613.00	
Shrub Planting - bare root 6-10 in (150- 250mm) (2)	02910-400-0561	ea.	1 Clab	365					\$0.00	
Tree Planting - bare root 11-16 in (270- 400mm) (3)	02910-400-0562	ea.	1 Clab	260					\$0.00	
Cactus Planting (4)		ea.	1 Clab						\$0.00	
NOTES:										
(1) Seeding Source:	Source: Kelley Erosion	Control (Ju	ıne 2022).							
(2) Shrub Source:										·
(3) Tree Source:										
(4) Cactus Source:										
Hourly productivity rates and crew composition from Mea						onstruction Da	ta .			
Building and Wall Demolition Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab	or Costs, Equipment Co	sts and Ma	aterial Cost	s spreadshe Daily	ets Daily Output			Para anti-um	Total	Nata
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab				s spreadshe	ets	onstruction Da	ta . Equipment	Premium	Total	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition	or Costs, Equipment Co	sts and Ma	crew	S spreadshe Daily Output	ets Daily Output	Labor	Equipment	Premium		Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel	Means Number 02220-110-0012	Unit	Crew	Daily Output	ets Daily Output	Labor \$0.16	Equipment \$0.22	Premium	\$0.38	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete	Means Number 02220-110-0012 02220-110-0050	Unit C.F. C.F.	Crew B-8 B-8	Daily Output 21500 15300	ets Daily Output	\$0.16 \$0.22	Equipment \$0.22 \$0.30	Premium	\$0.38 \$0.52	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry	Means Number 02220-110-0012 02220-110-0050 02220-110-0080	Unit C.F. C.F. C.F.	Crew B-8 B-8 B-8	Daily Output 21500 15300 20100	ets Daily Output	\$0.16 \$0.22 \$0.17	\$0.22 \$0.30 \$0.23	Premium	\$0.38 \$0.52 \$0.40	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed	Means Number 02220-110-0012 02220-110-0080 02220-110-0100	Unit C.F. C.F. C.F. C.F.	Crew B-8 B-8	Daily Output 21500 15300 20100 20100	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17	\$0.22 \$0.30 \$0.23 \$0.23	Premium	\$0.38 \$0.52 \$0.40 \$0.40	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masony Lg. mixed Sm. steel	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500	Unit C.F. C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3	Daily Output 21500 15300 20100 20100 14800	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.23	Premium	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0500	Unit C.F. C.F. C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3	21500 15300 20100 20100 14800 11300	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17 \$0.22	Premium	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.47	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0600 02220-110-0600	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	B-8 B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3	21500 15300 20100 20100 14800 11300 14800	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17	Premium	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.47 \$0.36	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0500	Unit C.F. C.F. C.F. C.F. C.F. C.F.	Crew B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3 B-3	21500 15300 20100 20100 14800 11300	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17 \$0.22	Premium	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.47	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete	02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0600 02220-110-0600	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3	21500 15300 20100 20100 20100 14800 14800 14800	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17		\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.47 \$0.36	Notes
Hourly productivity rates and crew composition from Mea All equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood	02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0100 02220-110-0500 02220-110-0600 02220-110-0600	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	B-8	Daily Output 21500 15300 20100 20100 20100 14800 14800	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.19 \$0.25 \$0.19 \$0.25	\$0.22 \$0.30 \$0.23 \$0.23 \$0.23 \$0.17 \$0.22 \$0.17 \$0.17	20%	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.36 \$0.36	Notes
Hourly productivity rates and crew composition from Mea NI equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	Crew B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 B-3	Daily Output 21500 15300 20100 20100 20100 14800 14800 14800 180 170	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.19 \$0.25 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.27 \$0.17 \$0.22 \$0.17	20%	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.37 \$0.36	Notes
Hourly productivity rates and crew composition from Mea all equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. concrete Sm. wood	02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0650 02220-110-0650 02220-110-0700	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	B-8	Daily Output 21500 15300 20100 20100 14800 14800 14800 170 150	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.19 \$0.25 \$0.19 \$0.25	\$0.22 \$0.30 \$0.23 \$0.23 \$0.23 \$0.17 \$0.22 \$0.17 \$0.17	20% 20% 20%	\$0.38 \$0.52 \$0.40 \$0.36 \$0.36 \$0.36 \$0.36	Notes
Hourly productivity rates and crew composition from Mea NI equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mixed Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0600 02220-110-0650 02220-110-0700	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. C.	B-8 B-8 B-8 B-8 B-8 B-8 B-9 B-3 B-3 B-3 B-3 B-3 B-3 B-1 Clab 1 Clab	Daily Output 21500 15300 20100 20100 20100 14800 14800 14800 170 150	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25 \$0.19 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17 \$0.22 \$0.17 \$0.17	20% 20% 20% 20%	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.36 \$0.36 \$0.36	Notes
Hourly productivity rates and crew composition from Mea NI equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. masonry Lg. mised Sm. steel Sm. concrete Sm. masonry Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 6 in (200 mm) thick	Means Number 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0700	Unit C.F. C.F. C.F. C.F. C.F. C.F. C.F. S.F. S	B-8 B-8 B-8 B-8 B-8 B-9 B-3 B-3 B-3 B-3 1 Clab 1 Clab 1 Clab	Daily Output 21500 15300 20100 20100 14800 14800 14800 170 150	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.17 \$0.19 \$0.25 \$0.19 \$0.19	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17 \$0.22 \$0.17 \$0.17	20% 20% 20%	\$0.38 \$0.52 \$0.40 \$0.36 \$0.36 \$0.36 \$0.36	Notes
Hourly productivity rates and crew composition from Mea NI equipment, labor and material unit costs are from Lab Building Demolition Lg. steel Lg. concrete Lg. mixed Sm. steel Sm. concrete Sm. ocncrete Sm. wood Wall Demolition Block 4 in (100 mm) thick Block 6 in (150 mm) thick Block 8 in (200 mm) thick Block 12 in (300 mm) thick	02220-110-0012 02220-110-0012 02220-110-0050 02220-110-0080 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0500 02220-110-0700	Unit C.F. C.F. C.F. C.F. C.F. C.F. S.F. S.F	B-8 B-8 B-8 B-8 B-8 B-8 B-3 B-3 B-3 Clab 1 Clab 1 Clab 1 Clab	Daily Output 21500 15300 20100 20100 20100 14800 14800 14800 170 150	ets Daily Output	\$0.16 \$0.22 \$0.17 \$0.19 \$0.25 \$0.19 \$0.25 \$0.19 \$2.23 \$2.36 \$2.67 \$2.67	\$0.22 \$0.30 \$0.23 \$0.23 \$0.17 \$0.22 \$0.17 \$0.17	20% 20% 20% 20%	\$0.38 \$0.52 \$0.40 \$0.40 \$0.36 \$0.36 \$0.36 \$0.36 \$2.83 \$2.83 \$3.20	Notes

\$29.00

\$2.94

10%

\$35.13

24 of 56 Misc. Unit Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

Vaste Disposal										
Unit rates from Means Heavy Construction 2006 Edition	by permission of R.S.Me	ans/Reed	Construction	on Data .						
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment		Total	Notes
ubbish Handling										
Dumpster delivery (average for all sizes)	02220-350-0910	ea.			\$61.50				\$61.50	
Haul (average for all sizes)	02220-350-0920	ea.			\$192.00				\$192.00	
Rent per month (average for all sizes)	02220-350-0940	ea.			\$65.50				\$65.50	
Disposal fee per ton (tonne) (average for all sizes)	02220-350-0950	ton			\$72.00				\$72.00	
NOTES:										
	R.S. Means Heavy Cons									
Dumpster Disposal Fee Source:	R.S. Means Heavy Cons	struction (2	2022 Q2).							
zardous Material Handling - Solids (+ Liqu	ids in drums)									
Pickup fees 55 gal (200 L), drums		ea.			\$280.00				\$280.00	
Bulk material (average)		ton			\$456.00				\$456.00	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)		mile			\$6.58				\$6.58	
Dump site solid disposal fee		ton			\$322.00				\$322.00	
NOTES:	02110 000 0000/0020	1011	I .	J	ψ022.00	<u> </u>			Ψ022.00	
Solid Handling Cost Source	R.S. Means Heavy Cons	struction (2022 ()2)							
Solid Disposal Fee Source:				31						
zardous Material Handling - Liquids		,								
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.	1		\$164.00				\$164.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3110	hr.			\$238.00				\$238.00	
Dump site liquid disposal fee		ton			\$322.00				\$322.00	
Dump site liquid disposal fee NOTES:	02110-300-6000/6020	ton			\$322.00				\$322.00	
Liquid Handling Cost Source	D.C. Maana Haayay Cane	atmention /	2022 (22)							
Liquid Disposal Fee Source:				21						
/drocarbon Contaminated Soils (HCS)	ZUZZ QZ IV.O. MEBIISTIC	savy Cons	i. ave. 02 (71						
, ,	00445 000 0000/0004	0.1/	Г		#04.00				604.00	
	02115-200-2020/2021				\$21.23				\$21.23	
	02115-200-2050/2055	C.Y.			\$311.50				\$311.50	
NOTES:		_		0.5						
Insitu Treatement Cost Source										
HCS Disposal Fee Source:	2022 Q2 R.S. Means He	eavy Cons	t., ave. 02	65						
amanata Cturratura Inatallatian										
oncrete Structure Installation										
eekly dumpster rental rates from Means Heavy Constr			by R.S.M	eans/Reed 0	Construction Data	а.				
eekly dumpster rental rates include haul to off-site dispo	sal site and disposal fee	s								
			_	Daily						
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
inforced Concrete Bulkheads and Shaft Co	overs									
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high		C.Y.	C-14D	80.02	\$193.00	\$149.35	\$15.98		\$358.33	includes reinforcing
Grade walls - 15 in (400mm) thick, 12 ft (3.7m) high	03310-240-4350	C.Y.	C-14D	26.2	\$193.00	\$456.13	\$48.82		\$697.95	includes reinforcing
Elevated conc, 1-way beam & slab - 15ft (4.6m) span	03310-240-2700	C.Y.	C-14B	20.59	\$355.00	\$592.34	\$62.12		\$1,009.46	includes reinforcing
Elevated conc, 1-way beam & slab - 25ft (7.5m) span	03310-240-2750	C.Y.	C-14B	28.36	\$335.00	\$430.05	\$45.10		\$810.15	includes reinforcing
t Gate/Foam Plug Installation										
		1								
Bat Gate (5)		ea.			\$3,684.51					materials \$/ea. Installed
Culvert Gate (5)		ea.			\$7,369.01				1	materials \$/ea. Installed
Adit Foam Plug (6)		ea./C.Y.	1		\$368.45				 	materials \$/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			\$368.45				 	materials \$/cy placed
NOTES:	1	ca./c.1.			ψ500.45				1	materials grey placed
	NV BLM, 2/2006: 8 hr +	1hr mob/e	lemoh + 1	r setun ner	nate (adjusted to	2022)				
	14 V DLIVI, Z/Z000. O III +	THE HIOD/C	ון ד מטוויסג	ii setup per	gate (aujusted to	2022)				
	NV BLM, 2/2006: 8 hr+	1hr moh/d	emoh + 1h	r catun nor c	dit: 16 hre nor n	roduction one	ning (adjusted to	2022)		

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25 of 56 Misc. Unit Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

Misc. Linear Projects

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .

All equipment, labor and material unit costs are from Labor										
	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Fencing Installation										
Barbed 3-strand	02820-170-1650	L.F.	B-80A	760	\$0.87	\$1.58	\$0.50		\$2.95	
Barbed 4-strand	extrapolated	L.F.	B-80A	570	\$1.16	\$2.11	\$0.67		\$3.94	
Barbed 5-strand	02820-130-0920	L.F.	B-80A	456	\$1.45	\$2.64	\$0.83		\$4.92	
Chain link 8-10ft (2.5-3m) Install	02820-130-0920	L.F.	B-80C	180	\$65.50	\$6.68	\$2.11		\$74.29	
Wood stockade fence 6 ft (2 m) high - Install	02820-510-1240	L.F.	B-80C	150	\$22.50	\$8.02	\$2.53		\$33.05	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
Fencing Removal										
Barbed 3-strand Removal	02220-220-1600	L.F.	2 Clab	430		\$1.86	\$0.88		\$2.74	
Barbed 4-strand Removal	extrapolated	L.F.	2 Clab	355		\$2.26	\$1.07		\$3.33	
Barbed 5-strand Removal	02220-220-1650	L.F.	2 Clab	280		\$2.86	\$1.35		\$4.21	
Chain link 8-10 ft (2.5-3 m) Removal	02220-220-1700	L.F.	B-6	445		\$3.08	\$1.44		\$4.52	
Wood, all types 4-6 ft ("1.5-2 m) high - Removal	02220-220-1775	L.F.	2 Clab	430		\$1.86	\$0.88		\$2.74	
	user	L.F.								
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
	user	L.F.							\$0.00	
Culvert Removal										
12 in (300 mm) Diameter	02220-220-2900	L.F.	B-6	175		\$7.84	\$3.66		\$11.50	
18 in (450 mm) Diameter	02220-220-2930	L.F.	B-6	150		\$9.14	\$4.27		\$13.41	
24 in (600 mm) Diameter	02220-220-2960	L.F.	B-6	120		\$11.43	\$5.33		\$16.76	
36 in (1m) Diameter	02220-220-3000	L.F.	B-6	90		\$15.24	\$7.11		\$22.35	
Pipeline Removal										
0.75 in (20mm) - 4 in (100 mm) diameter	02220-381-1600	L.F.	B-20	700		\$2.22	\$0.54		\$2.76	
6 in (150 mm) - 8 in (200 mm)	02220-381-1700	L.F.	B-20	500		\$3.11	\$0.76		\$3.87	
10 in (250 mm) - 18 in (450 mm)	02220-381-1800	L.F.	B-20	300		\$5.18	\$1.26		\$6.44	
20 in (500 mm) - 36 in (1 m)	02220-381-1900	L.F.	B-20	200		\$7.77	\$1.90		\$9.67	
Pipe and Drainpipe Installation										
Water 4in (100mm) 40ft (12m) length, welded HDPE	02510-760-0100	L.F.	B-22A	400	\$2.28	\$5.89	\$6.52		\$14.69	
Water 6in (150mm) 40ft (12m) length, welded HDPE	02510-760-0200	L.F.	B-22A	380	\$4.93	\$6.20	\$6.87		\$18.00	
Water 12in (300mm) 40ft (12m) length, welded HDPE	02510-760-0500	L.F.	B-22A	260	,	\$9.06	\$10.04		\$19.10	
Drain 4in (100mm) perforated PVC	02620-630-2100	L.F.	B-14	315	\$3.41	\$9.30	\$2.49		\$15.20	
Drain 6in (150mm) perforated PVC	02620-630-2110	L.F.	B-14	300	\$6.55	\$9.76	\$2.62		\$18.93	
Drain 4in (100mm) corrugated, perf or plain	02620-660-0040	L.F.	2 Clab	1200	\$1.39	\$0.67	\$0.32		\$2.38	
Drain 6in (150mm) corrugated., perf or plain	02620-660-0060	L.F.	2 Clab	900	\$3.51	\$0.89	\$0.42		\$4.82	
, , , , , , , , , , , , , , , , , , , ,										

26 of 56 Misc. Unit Costs

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety

Cost Basis: N. Nevada Notice Level

Drain Rock Preparation										
Crushing	ı	C.Y.					1		\$0.50	
Screening		C.Y.							\$0.50	
TOTAL	'L								\$1.00	
Misc.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28		\$20.65	\$14.52		\$35.17	
	02210-700-0120	C.T.	D-11IVI	20		\$20.05	\$14.52		\$35.1 <i>1</i>	
Powerline and Transformer Removal	•					1				
Single Pole		mile							\$51,208.05	
Double Pole		mile							\$58,523.49	
Transformer (9		ea.							\$64,549.13	
NOTES										
(7) Single Pole Source: (8) Double Pole Source:	NV Energy estimate (20	109) Adjus	ted to 2022							
(8) Double Pole Source: (9) Transformer Source:										
	INV Energy estimate (20	118) adjus	ied to 2022							
Erosion and Sedimentation Control										
Hourly productivity rates and crew composition from Me						onstruction Da	ta .			
All equipment, labor and material unit costs are from La	oor Costs, Equipment Co	sts and M	aterial Cost		ets					
	Means Number	11-14		Daily	Materials	Labor	F	Premium	Total	Notes
	Means Number	Unit	Crew	Output	Materials	Labor	Equipment	Premium	Total	Notes
Rip-Rap & Rock Lining										
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted		S.Y.	B-13	80	\$27.00	\$36.61	\$27.18		\$90.79	assumes on-site source of rip-rap
Rip-Rap 18 in (450 mm) min thick, no grou		S.Y.	B-13	53	\$8.45	\$55.26	\$41.02		\$104.73	assumes on-site source of rip-rap
Gabions, 6 in (150 mm) deep		S.Y.	B-13	200	\$6.60	\$14.64	\$10.87		\$32.11	assumes on-site source rock fill for gabions
Gabions, 9 in (250 mm) deep		S.Y.	B-13	163	\$11.95	\$17.97	\$13.34		\$43.26	assumes on-site source rock fill for gabions
Gabions, 12 in (300 mm) deep		S.Y.	B-13	153	\$13.25	\$19.14	\$14.21		\$46.60	assumes on-site source rock fill for gabions
Gabions, 18 in (450 mm) deep		S.Y.	B-13	102	\$28.00	\$28.71	\$21.32		\$78.03	assumes on-site source rock fill for gabions
Gabions, 36 in (1m) deep	02370-450-0200	S.Y.	B-13	60	\$31.00	\$48.81	\$36.24		\$116.05	assumes on-site source rock fill for gabions
HDEP Liner Installation										
Finish grading large area	2310-100-0100	S.F.	B-11L	18000		\$0.05	\$0.09		\$0.14	
Compaction-riding, vibrating roller - 12in (300mm) lifts	2315-310-5100	C.Y.	B-10Y	2600		\$0.37	\$0.14		\$0.51	
60 mil HDPE	2660-610-0010	S.F.	3 Skwk	1600	\$1.10	\$1.12	\$0.48		\$2.70	
80 mil HDPE	user	S.F.	3 Skwk	149		\$12.05	\$5.11		\$17.16	
40 mil VLDPE	user	S.F.	3 Skwk	150		\$11.97	\$5.08		\$17.05	
	user	S.F.	3 Skwk	149		\$12.05	\$5.11		\$17.16	
	user	S.F.	3 Skwk	149		\$12.05	\$5.11		\$17.16	
Construction Management Support										
Office Trailer, Furnished, no hook-ups	0150-500-0250	mo.			\$240.00		I		\$240.00	
Toilet Portable, chemica		mo.			\$229.40	i i			\$229.40	
TOTAL					\$469.40	1	l.		\$469.40	
Pump and Casing Removal										
		l								
Pump Type	Measurement	Unit	oxdot			Labor	Equipment		Total	Notes
Pump Removal	T-									
Submersible		L.F.				\$12.45	\$29.32		\$41.77	
Line Shaf	ft to pump	L.F.				\$12.45	\$29.32		\$41.77	
NOTES										
(10) Pump Removal Source:	Boart Longyear Quote:	2022								

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level Cost Estimate Type: Surety

			EQUIPMENT	TOTAL LABOR	TOTAL
ACTIVITY AND I	FLEET	Standard Crew Size	UNIT COST (Hourly)	UNIT COST (Hourly)	COST (Hourly)
RIPPING	LLLI	CIEW SIZE	(Hourly)	(Hourry)	(Hourly)
Rip road Waste rock dumps, heaps, tails Surface preparation Scarify	- rip flat surfaces				
	Small D	ozer w/ multi-sha	nk		
D7R		1	\$168.88	\$71.22	\$240.1
	Totals		\$168.88	\$71.22	\$240.1
	Medium D	Oozer w/ multi-sh	ank		
D9R		1	\$384.88	\$71.22	\$456.1
	Totals		\$384.88	\$71.22	\$456.1
	Large Do	ozer w/ multi-sha	nk		
D10R	Takala	1	\$524.07	\$71.22	\$595.2
	Totals		\$524.07	\$71.22	\$595.2
	Grade	er w/ multi-shank			
16G/H	Totals	1	\$76.22 \$76.22	\$72.28 \$72.28	\$148.5 \$148.5
	lotais		\$10.22	\$12.20	Φ140.:
Grading waste rock dumps and Grading landfills Constructing pit safety berms	heaps				
Grading landfills Constructing pit safety berms	·	all Dozer Fleet			
Grading landfills	·	all Dozer Fleet	\$168.88 \$168.88	\$71.22 \$71.22	
Grading landfills Constructing pit safety berms	Sm Totals	1			
Grading landfills Constructing pit safety berms	Sm Totals		\$168.88	\$71.22	\$240.
Grading landfills Constructing pit safety berms D7R	Sm Totals	ium Dozer Fleet			\$240. \$456.
Grading landfills Constructing pit safety berms D7R	Totals Med Totals	ium Dozer Fleet	\$168.88 \$384.88	\$71.22 \$71.22	\$240.1 \$456.1
Grading landfills Constructing pit safety berms D7R	Totals Totals Lar	ium Dozer Fleet	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22 \$71.22	\$456.1 \$456.1 \$456.2
Grading landfills Constructing pit safety berms D7R D9R	Totals Med Totals	ium Dozer Fleet 1 ge Dozer Fleet	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22	\$456.1 \$456.1 \$456.2
Grading landfills Constructing pit safety berms D7R D9R	Totals Totals Lar	ium Dozer Fleet 1 ge Dozer Fleet	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22 \$71.22	\$456.1 \$456.1 \$456.2
Grading landfills Constructing pit safety berms D7R D9R D10R	Totals Med Totals Lar	ium Dozer Fleet 1 ge Dozer Fleet	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22 \$71.22	\$456.1 \$456.1 \$456.2
Grading landfills Constructing pit safety berms D7R D9R D10R EXPLORATION GRADING Backfilling and grading explorations	Totals Med Totals Lar Totals on trenches	ium Dozer Fleet 1 1 1 1 1 1 1 1 1 1 1 1 1	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22 \$71.22	\$456. \$456. \$456.
Grading landfills Constructing pit safety berms D7R D9R D10R EXPLORATION GRADING Backfilling and grading explorations	Totals Med Totals Lar Totals on trenches	ium Dozer Fleet 1 ge Dozer Fleet	\$168.88 \$384.88 \$384.88 \$524.07	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$240.1 \$456.1 \$456.1 \$595.2
Grading landfills Constructing pit safety berms D7R D9R D10R EXPLORATION GRADING Backfilling and grading explorati Grading flat exploration roads	Totals Med Totals Lar Totals on trenches	ium Dozer Fleet 1 1 1 1 1 1 1 1 1 1 1 1 1	\$168.88 \$384.88 \$384.88	\$71.22 \$71.22 \$71.22 \$71.22	\$240.1 \$456.1 \$456.1 \$595.2 \$595.2
D7R D9R D10R EXPLORATION GRADING Backfilling and grading exploration roads D6R	Totals	ium Dozer Fleet 1 1 1 1 1 1 1 1 1 1 1 1 1	\$168.88 \$384.88 \$384.88 \$524.07 \$524.07	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$240. \$456. \$456. \$595.2 \$595.2
Grading landfills Constructing pit safety berms D7R D9R D10R EXPLORATION GRADING Backfilling and grading explorati Grading flat exploration roads	Totals Med Totals Lar Totals On trenches Sm Totals Med	ium Dozer Fleet 1 1 1 1 1 1 1 1 1 1 1 1 1	\$168.88 \$384.88 \$384.88 \$524.07 \$524.07 \$149.91 \$149.91	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$240.1 \$456.1 \$456.1 \$595.2 \$595.2
D7R D9R D10R EXPLORATION GRADING Backfilling and grading exploration roads D6R	Totals	ium Dozer Fleet ge Dozer Fleet 1 all Dozer Fleet 1	\$168.88 \$384.88 \$384.88 \$524.07 \$524.07	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$240. \$456. \$456. \$595.2 \$595.2 \$221. \$221.
D7R D9R D10R EXPLORATION GRADING Backfilling and grading explorati Grading flat exploration roads D6R D7R	Totals Totals Totals Totals Totals Totals Totals Totals Totals	ium Dozer Fleet 1	\$168.88 \$384.88 \$384.88 \$524.07 \$524.07 \$149.91 \$149.91 \$168.88 \$168.88	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$240.1 \$240.1 \$456.1 \$456.1 \$595.2 \$595.2 \$221.1 \$221.1
D7R D9R D10R EXPLORATION GRADING Backfilling and grading exploration roads D6R	Totals Totals Totals Totals Totals Totals Totals Totals Totals	ium Dozer Fleet ge Dozer Fleet 1 all Dozer Fleet 1 ium Dozer Fleet 1	\$168.88 \$384.88 \$384.88 \$524.07 \$524.07 \$149.91 \$149.91	\$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22 \$71.22	\$24 \$45 \$45 \$55 \$55 \$22 \$22

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level Cost Estimate Type: Surety

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
XCAVATING		1 1	(110 211)	()	(**************************************
Earthen Berms Diversion ditch excavation and backfill Underground openings backfill - excavate and place Pit berm construction (excavator option)					
	Small Ex				
325C Totals	5	1	\$124.78 \$124.78	\$72.28 \$72.28	\$197. \$197.
	Medium E	xcavator			
345B Totals	8	1	\$216.18 \$216.18	\$72.28 \$72.28	\$288. \$288.
	Large Ex	cavator			
385BL Totals	S	1	\$333.41 \$333.41	\$72.28 \$72.28	\$405. \$405.
XCAVATE AND RECONTOUR					
Recontour large roads (haul roads, access roads, etc.) Ponds - Excavate and pull liner and bury					
325C Si	mall Excava	ator + Dozei		¢72.20I	\$197.
D7R		1 1	\$124.78 \$168.88	\$72.28 \$71.22	\$197. \$240.
Total Equipmen	t		\$293.66	\$143.50	\$437.
	dium Exca	vator + Doze			
345B D9R		1 1	\$216.18 \$384.88	\$72.28 \$71.22	\$288. \$456.
Totals	S	·	\$601.06	\$143.50	\$744.
	arge Excava	ator + Dozei			4105
385BL	arge Excava	1	\$333.41	\$72.28 \$71.22	
				\$72.28 \$71.22 \$143.50	\$595
385BL D10R	6	1	\$333.41 \$524.07	\$71.22	\$595.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill	6	1 1 1 1 Dozer	\$333.41 \$524.07 \$857.48	\$71.22 \$143.50	\$595. \$1,000.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour	etc.)	1 1	\$333.41 \$524.07	\$71.22	\$595. \$1,000.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals	etc.)	Dozer 1 Dozer	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91	\$71.22 \$143.50 \$71.22 \$71.22	\$595. \$1,000. \$1,000.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R	etc.) Small	Dozer	\$333.41 \$524.07 \$857.48	\$71.22 \$143.50 \$71.22	\$595. \$1,000. \$221. \$221. \$355.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals	etc.) Small	Dozer 1 Dozer 1	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87	\$71.22 \$143.50 \$71.22 \$71.22	\$595. \$1,000. \$221. \$221. \$355.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals 14G/H	etc.) Small Large	Dozer 1 Dozer 1	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87 \$283.87	\$71.22 \$143.50 \$71.22 \$71.22 \$71.22 \$71.22	\$405. \$595. \$1,000. \$221. \$221. \$355. \$355.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals D8R	etc.) Small	Dozer 1 Dozer 1 der 1	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87 \$283.87	\$71.22 \$143.50 \$71.22 \$71.22 \$71.22 \$71.22	\$595. \$1,000. \$221. \$221. \$355. \$355.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals 14G/H Totals	etc.) Small Large	Dozer Dozer 1 der 1 ccavator	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87 \$283.87	\$71.22 \$143.50 \$71.22 \$71.22 \$71.22 \$71.22 \$72.28	\$595. \$1,000. \$221. \$221. \$355. \$355. \$284. \$284.
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals 14G/H	etc.) Small Large Grants Small Ex	Dozer 1 Dozer 1 der 1	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87 \$283.87	\$71.22 \$143.50 \$71.22 \$71.22 \$71.22 \$71.22	\$595 \$1,000 \$221 \$221 \$355 \$355
385BL D10R Totals XPLORATION ROAD/PAD RECONTOUR Recontour small roads (exploration roads, service roads, Cut and Fill reclamation on slopes Drill pad recountour Drill sump backfill D6R Totals 14G/H Totals	etc.) Small Large Grants Small Ex	Dozer 1 Dozer 1 ccavator	\$333.41 \$524.07 \$857.48 \$149.91 \$149.91 \$283.87 \$283.87 \$212.11 \$212.11	\$71.22 \$143.50 \$71.22 \$71.22 \$71.22 \$71.22 \$72.28 \$72.28	\$595 \$1,000 \$1,000 \$221 \$221 \$355 \$355 \$365

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level Cost Estimate Type: Surety

EQUIPMENT FLEETS					
ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
LOAD, HAUL AND PLACE MATERIAL					<u> </u>
Rock placement Haul overburden for backfill Haul borrow for backfill Haul cover or growth media					
Sm	all Truck/l	oader Flee	t		
725		Calculated	\$216.92	\$43.14	\$260.0
966G	Loader	1	\$171.29	\$72.28	\$243.5
D7R Totals		1	\$168.88 \$557.09	\$71.22 \$186.64	\$240.1 \$743.7
-				, , , , ,	, .
740 Med	ium Truck	/Loader Fle Calculated	et \$234.23	\$43.14	\$277.3
988G	Loader	1	\$234.23 \$348.56	\$72.28	\$420.8
D8R		1	\$283.87	\$71.22	\$355.0
Totals			\$866.66	\$186.64	\$1,053.3
Lai	rae Truck/l	_oader Flee	ıt		
769D	90 1140141	Calculated	\$31.27	\$43.14	\$74.4
988G	Loader	1	\$348.56	\$72.28	\$420.8
D7R		1	\$168.88	\$71.22	\$240.1
Totals			\$548.71	\$186.64	\$735.3
Extra	Large Truc	k/Loader F	leet		
777D	J	Calculated	\$56.62	\$43.14	\$99.7
992G	Loader	1	\$77.74	\$72.28	\$150.0
D7R		1	\$168.88	\$71.22	\$240.1
Totals			\$303.24	\$186.64	\$489.8
	Scraper/Do	zer Fleet			
631G		Calculated	\$287.06	\$71.22	\$358.2
D10R		1	\$524.07	\$71.22	\$595.2
D7R Totals		1	\$168.88 \$980.01	\$71.22 \$213.66	\$240.1 \$1,193.6
			ψοσο.σ τ	Ψ210.00	ψ1,100.0
	andem Sci	raper Fleet			
637G D7R		2	\$80.28	\$72.28	\$152.5
Totals		1	\$168.88 \$249.16	\$71.22 \$143.50	\$240.1 \$392.6
					,
MISC. LOAD AND HAUL AND EARTHWORKS Sludge removal					
Drainage controls					
		1 110 10			
Misc Cat 3:	29B EXCAV	ator / 10-12	yd3 Truck \$124.78	\$72.28	\$197.0
Dump Truck (10-12 yd3)		1	\$124.76	\$43.14	\$156.7
Totals			\$238.35	\$115.42	\$353.7
Misc Cat D9R D	nzer/ Load	or (5 vd3) /	10-12 vd2 Truck	,	
D9R	JZEIT LUdu	er (5 yus) /	\$384.88	\$71.22	\$456.1
966G		1	\$171.29	\$72.28	\$243.5
Dump Truck (10-12 yd3)		1	\$113.57	\$43.14	\$156.7
Totals		<u> </u>	\$669.74	\$186.64	\$856.3
Misc Cat D6 Doz	zer / Cat 96	6 Loader /	10-12 yd3 Truck		
D6R		1	\$149.91	\$71.22	\$221.
966G		1	\$171.29	\$72.28	\$243.5
Dump Truck (10-12 yd3)		1	\$113.57 \$434.77	\$43.14 \$186.64	\$156.7 \$621.4
Totals					

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level Cost Estimate Type: Surety

ACTIVITY AND FLEET CONCRETE BREAKING Slab demolition Footing demolition Wall demolition Wall offits 325B Excar 325C H-120 (fits 325)	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST
CONCRETE BREAKING Slab demolition Footing demolition Wall demolition Small - Cat 325B Excat 325C		UNIT COST	UNIT COST	COST
CONCRETE BREAKING Slab demolition Footing demolition Wall demolition Small - Cat 325B Excat 325C	Olew Gize	(Hourry)	(Hourry)	(Hourly)
Slab demolition Footing demolition Wall demolition Small - Cat 325B Excat 325C				(Hourly)
Footing demolition Wall demolition Small - Cat 325B Excar 325C				
325C				
H-120 (fits 325)	1	\$124.78	\$72.28	\$197.06
D9R	1	\$69.63 \$384.88	\$0.00 \$71.22	\$69.63 \$456.10
Totals	·	\$579.29	\$143.50	\$722.79
Medium - Cat 345B Exc	avator w/ H18	ND e Hammer		
345B	1 1	\$216.18	\$72.28	\$288.46
H-160 (fits 345)	1	\$136.68	\$0.00	\$136.68
D9R	1	\$384.88	\$71.22	\$456.10
Totals		\$737.74	\$143.50	\$881.24
Large - Cat 385B Exca	vator w/ H180	D s Hammer		
385BL	1	\$333.41	\$72.28	\$405.69
H-180 (fits 365/385)	1	\$178.46	\$0.00	\$178.46
D9R Totals	1	\$384.88 \$896.75	\$71.22 \$143.50	\$456.10 \$1,040.25
Totals	I .	φ090.73	φ143.30	φ1,040.23
DRILL HOLE ABANDONMENT				
	Frout or Ceme			
Pump (plugging) Drill Rig	1	\$177.43	\$71.22	\$248.65
Driller's Helper Totals	2	\$0.00 \$177.43	\$100.82 \$172.04	\$100.82 \$349.47
Totalo	I	ψ177.40	ψ172.04	ψο-1017
Drill Hole - Inert Media (Me		,		
420D 4WD Backhoe General Laborer	1	\$50.82 \$0.00	\$72.28 \$50.10	\$123.10 \$50.10
Totals	'	\$50.82	\$122.38	\$173.20
Drill Hole - Casing F			\$71.00	0055.44
Heavy Duty Drill Rig Driller's Helper	2	\$184.19 \$0.00	\$71.22 \$100.82	\$255.41 \$100.82
Totals	-	\$184.19	\$172.04	\$356.23
MANUTENANOE EL EET				
MAINTENANCE FLEET Road Grading, Dust Suppression, Clean Up				
Maintenance - Small Water	er Truck and	Cat 14G Grader		
613E (5,000 gal) Water Wagon	1	\$101.86	\$43.14	\$145.00
120H	1	\$147.60	\$72.28	\$219.88
Totals		\$249.46	\$115.42	\$364.88
Maintenance - Medium Wa	ter Truck and	Cat 16G Grade	r	
613E (5,000 gal) Water Wagon	1	\$101.86	\$43.14	\$145.00
14G/H	1	\$212.11	\$72.28	\$284.39
Totals		\$313.97	\$115.42	\$429.39
Maintenance - Large Wate	er Truck and	Cat 16G Grader		
621E (8,000 gal) Water Wagon	1	\$171.87	\$43.14	\$215.01
16G/H	1	\$76.22	\$72.28	\$148.50
Totals		\$248.09	\$115.42	\$363.51
PROJECT SUPERVISION				
Foreman	1	\$0.00	\$93.43	\$93.43
Supervisor's Truck	1	\$25.88	\$0.00	\$25.88
Totals		\$25.88	\$93.43	\$119.31

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm Cost Basis: N. Nevada Notice Level Cost Estimate Type: Surety

QUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
	Crew Size	(Hourly)	(Houriy)	(Hourly)
EANS CREW DEFINITIONS Crew composition from Means Heavy Construction 2005 Edition	by permission of P.S	Maans/Pood Cons	truction Data	
For use with misc. unit costs where Means is the source for produ		viodrio/1100d Oorio	adolon Bala .	
1 Clab - Seedling Pla	anting/Block Wa	II Demolition		
General Laborer	1	\$0.00	\$50.10	\$50.
Totals		\$0.00	\$50.10	\$50.
2 Clab - Barbed Wire/Wood Fence Remo	val, Drainpipe In	stallation, Pum		
General Laborer	2	\$0.00	\$100.20	\$100.
Light Truck - 1.5 Ton Totals	1	\$47.40 \$47.40	\$0.00 \$100.20	\$47. \$147.
lotais		\$47.40	\$100.20	\$147.
2 Clab + Excavator	r - Pond Liner Cւ			
General Laborer	2	\$0.00	\$100.20	\$100.
325C Totals	1	\$124.78 \$124.78	\$72.28 \$172.48	\$197. \$297.
Totals		\$124.76	\$172.46	φ297.
	Velder - Bat Gat			
General Laborer	2	\$0.00	\$100.20	\$100.
Welding Equipment Light Truck - 1.5 Ton	1 1	\$24.94 \$47.40	\$72.28 \$0.00	\$97. \$47.
Totals	'	\$72.34	\$172.48	\$244.
		•		
	Foam Adit Plugs		4400.001	0.100
General Laborer 420D 4WD Backhoe	2	\$0.00 \$50.82	\$100.20 \$72.28	\$100. \$123.
Light Truck - 1.5 Ton	1	\$47.40	\$0.00	\$123. \$47.
Totals		\$98.22	\$172.48	\$270.
3 Clah + Weld	der - Culvert Bat	Gate		
General Laborer	2	\$0.00	\$100.20	\$100
Welding Equipment	1	\$24.94	\$72.28	\$97.
420D 4WD Backhoe	1	\$50.82	\$72.28	\$123.
Light Truck - 1.5 Ton Totals	1	\$47.40 \$123.16	\$0.00 \$244.76	\$47. \$367.
Totals	l l	ψ123.10	Ψ244.70	ψοστ
3 Clab D - 3 Laborers				
General Laborer	3	\$0.00	\$150.30	\$150.
Foreman Supervisor's Truck	1	\$0.00 \$25.88	\$93.43 \$0.00	\$93. \$25.
Light Truck - 1.5 Ton	1	\$47.40	\$0.00	\$47.
Totals		\$73.28	\$243.73	\$317.
3 SKWK -	Liner Installation	on		
Skilled Laborer	3	\$0.00	\$152.16	\$152.
HDEP Welder (pipe or liner)	1	\$44.36	\$0.00	\$44.
420D 4WD Backhoe	1	\$50.82 \$0.00	\$72.28	\$123. \$0.
		\$0.00 \$0.00		\$0. \$0.
		\$0.00		\$0.
Totals		\$95.18	\$224.44	\$319.

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-3 - Small	Building Demol	tion		
	LABOR			
General Laborer	2	\$0.00	\$100.20	\$100
Foreman	1	\$0.00	\$93.43	\$93
		\$0.00 \$0.00		\$0 \$0
		\$0.00		\$(
E	QUIPMENT	ψ0.00	ı	Ψ.
928G	1	\$80.02	\$71.22	\$151
Dump Truck (10-12 yd3)	2	\$227.14	\$86.28	\$313
		\$0.00		\$0
		\$0.00		\$0
		\$0.00		\$0
		\$0.00 \$0.00		\$0
		\$0.00		\$(\$(
		\$0.00		\$(
Totals		\$307.16	\$351.13	\$658
		φοσιο	ψουο	φουσ
B-6 - Chain Link	Fence/Culvert F	Removal		
General Laborer	2	\$0.00	\$100.20	\$100
928G	1	\$80.02	\$71.22	\$151
Totals		\$80.02	\$171.42	\$251
201				
B-8 - Large	Building Demoli	tion		
General Laborer	LABOR 2	\$0.00	\$100.20	\$100
Foreman	1	\$0.00	\$93.43	\$93
Toteman		\$0.00	ψ35.45	\$0
		\$0.00		\$0
		\$0.00		\$0
	QUIPMENT			
928G	1	\$80.02	\$71.22	\$151
20 Ton Crane	1	\$271.77	\$72.28	\$344
Dump Truck (10-12 yd3)	2	\$227.14 \$0.00	\$86.28	\$313 \$0
		\$0.00		\$(
		\$0.00		\$(
		\$0.00		\$(
		\$0.00		\$0
		\$0.00		\$0
		\$0.00		\$0
		\$0.00		\$0
		\$0.00		\$0
		\$0.00		\$0
Totals		\$0.00 \$578.93	\$423.41	\$0 \$1,002
i otais		φο <i>ι</i> ο.93	ֆ4∠3.4 I	\$1,002
		tion		
R-9 - Concr	ete Wall Demoli			
	ete Wall Demoli		\$200.401	\$200
General Laborer	4	\$0.00	\$200.40 \$93.43	\$200 \$93
			\$200.40 \$93.43 \$68.68	\$200 \$93 \$105

Closure Cost Estimate Fleets (Crews)

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration

Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

Model Version: Version 1.4.1

Cost Data: User Data

Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Cost Estimate Type: Surety
Cost Basis: N. Nevada Notice Level

QUIPMENT FLEETS				
ACTIVITY AND FLEET	Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
	- General Compacti	` ,,	(1.00.1.)	()
General Laborer	1	\$0.00	\$50.10	\$50.1
CS533E Vibratory Roller	1	\$47.05	\$70.49	\$117.5
Totals		\$47.05	\$120.59	\$167.6
B-11L - Fine Gradir	ng for Evaporation P	ond Liner Base		
General Laborer	1	\$0.00	\$50.10	\$50.
14G/H	1	\$212.11	\$72.28	\$284.
Totals		\$212.11	\$122.38	\$334.
B-1	1M - Backhoe Work			
420D 4WD Backhoe	1 1	\$50.82	\$72.28	\$123.
Totals	·	\$50.82	\$72.28	\$123.
			•	
966G B-12G - Rip-R	Rap Machine Placed	(Modified) \$171.29	\$72.28	\$243.
325C	1	\$171.29 \$124.78	\$72.28	\$243. \$197.
Light Truck - 1.5 Ton	1	\$47.40	\$0.00	\$47.
Totals		\$343.47	\$144.56	\$488.
	•	·		
	ed Rip-Rap & Gabio		4000.401	4000
General Laborer Foreman	4	\$0.00 \$0.00	\$200.40	\$200.
20 Ton Crane	1 1	\$0.00 \$271.77	\$93.43 \$72.28	\$93. \$344.
Totals	'	\$271.77	\$366.11	\$637.
			*******	Ţ
	C Drain Pipe Installa		****	
Foreman General Laborer	1 4	\$0.00 \$0.00	\$93.43 \$200.40	\$93. \$200.
420D 4WD Backhoe	1	\$50.82	\$72.28	\$123.
Light Truck - 1.5 Ton	1	\$47.40	\$0.00	\$47.
Totals		\$98.22	\$366.11	\$464.
B 20) - Remove Pipelines	•		
Foreman B-20	1 - Kelliove Pipelilles	\$0.00	\$93.43	\$93.
Skilled Laborer	1	\$0.00	\$50.72	\$50.
General Laborer	1	\$0.00	\$50.10	\$50.
Light Truck - 1.5 Ton	1	\$47.40	\$0.00	\$47.
Totals		\$47.40	\$194.25	\$241.
B-22A - HDE	P Installation - Pipe	or Liner		
Skilled Laborer	1	\$0.00	\$50.72	\$50.
General Laborer	2	\$0.00	\$100.20	\$100.
D7R	1	\$168.88	\$71.22	\$240.
Light Truck - 1.5 Ton	1	\$47.40 \$50.82	\$0.00 \$72.28	\$47. \$123.
420D AMD Packhas		\$50.82 \$14.69	\$0.00	\$123. \$14.
420D 4WD Backhoe Generator 5KW		φ14.09		\$44.
Generator 5KW	1 1	\$44.36	\$0.00	
	1	\$44.36 \$326.15	\$0.00 \$294.42	\$620.
Generator 5KW HDEP Welder (pipe or liner) Totals	1	\$326.15		
Generator 5KW HDEP Welder (pipe or liner) Totals B-80A - In	nstall Barbed Wire F	\$326.15 ence	\$294.42	\$620.
Generator 5KW HDEP Welder (pipe or liner) Totals	1	\$326.15		

Closure Cost Estimate Fleets (Crews)

Project Name: REX Exploration Montrose County Colorado- Notice or Exploration Date of Submittal: December 2022

File Name: REX_NOI_SRCE_Ver_1_4_1_017_NVb.xlsm

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Cost Data: User Data

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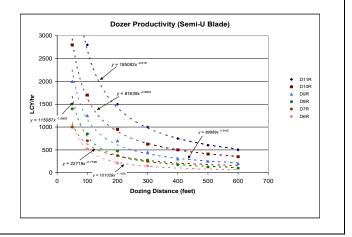
EQUIPMENT FLEETS					
ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
B-80C - Install Chain Li	nk Fence		` ,,	` ,,	(11111)
General Laborer	iik i ciicc	3	\$0.00	\$150.30	\$150.
Light Truck - 1.5 Ton		1	\$47.40	\$0.00	\$47.
Totals			\$47.40	\$150.30	\$197.
Totalo			ψ+1.40	ψ100.00	Ψίοι
C-14B - Elevated Concrete	e Slabs (R	einforced (Concrete Shaft (Covers)	
Foreman		1	\$0.00	\$93.43	\$93
Supervisor's Truck		1	\$25.88	\$0.00	\$25
Carpenter		16	\$0.00	\$959.20	\$959
General Laborer		2	\$0.00	\$100.20	\$100
Rodmen (reinforcing concrete)		4	\$0.00	\$200.40	\$200
Cement finisher		2	\$0.00	\$100.82	\$100
Gas Engine Vibrator		1	\$6.82	\$70.49	\$77
Concrete Pump		1	\$127.18	\$0.00	\$127
Totals			\$159.88	\$1,524.54	\$1,684
C-14D - Concrete Walls Forme	d in Place	(Reinforce	d Concrete Adit	: Bulkheads)	
Foreman		1	\$0.00	\$93.43	\$93
Supervisor's Truck		1	\$25.88	\$0.00	\$25
Carpenter		18	\$0.00	\$1,079.10	\$1,079
General Laborer		2	\$0.00	\$100.20	\$100
Rodmen (reinforcing concrete)		2	\$0.00	\$100.20	\$100
Cement finisher		1	\$0.00	\$50.41	\$50
Gas Engine Vibrator		1	\$6.82	\$70.49	\$77
Concrete Pump		1	\$127.18	\$0.00	\$127
Totals			\$159.88	\$1,493.83	\$1,653

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Productivity - Bulldozers

Dozer Specifications										
Description	D11R	D10R	D9R	D8R	D7R	D6R				
Blade Width (SU) (ft)	18.33	15.92	14.17	12.92	12.08	10.67				
Shank Guage (3 shanks) (ft)	9.83	8.67	7.67	7.08	6.5	6.5				
Pocket Spacing (ft)	4.75	4.33	3.87	3.58	3.25	3.25				
Ripping Width (Ripper + 1 Pocket) (ft)	14.58	13	11.54	10.66	9.75	9.75				
Ripping Speed (mph)	1	1	1	1	1	1				
Ripping Maneuver (turn) Time (min)	0.25	0.25	0.25	0.25	0.25	0.25				
Altitude Deration Factor	1	1	1	1	1	1				
Ripping Hourly Production (excluding maneuvering time) (ft)	5,280	5,280	5,280	5,280	5,280	5,280				

	Production (LCY/hr)										
Average Dozing Distance (feet)	D11R	D10R	D9R	D8R	D7R	D6R					
50	4.800	2.800	2.000	1.400	1.000						
100	2,800	1,700	1,250	850	700	520					
200	1,500	950	700	475	375	210					
300	1,000	625	450	275	250	150					
400	750	500	300	175							
500	600	410	250	125							
600	500	350	200	100							
			Source: C	aterpillar Perforr	mance Handbook	Edition 35					
dozer productivity = k >	Dozing Distance										
(see graph)	-										
k =	185082	81639	89889	115087	22719	10102					
p =	-0.919	-0.8502	-0.9425	-1.0809	-0.7796	-1.150					



Productivity - Bulldozers (cont.)

% Grade vs. Doz	ing Factor
% Grade	Dozing Factor
-30	1.6
-20	1.4
-10	1.2
0	1
10	0.8
20	0.55
30	0.3
	Performance Handbook Edition 35

Average	0.75
MATERIAL (1)	
Loose stockpile	1.2
Normal	1
Hard to cut; frozen —	
with tilt cylinder	0.8
Hard to drift; "dead" (dry,non-cohesive	
material) or very sticky material	0.8
Rock, ripped or blasted	0.6
SLOT DOZING OR SIDE BY SIDE (1)	1.2
VISIBILITY	
Good conditions	1
JOB EFFICIENCY	
50 min/hr	0.83

Material Der	nsities(1)	
Material	lb/cy	kg/m³
Alluvium	2,900	1,720
Basalt	3,300	1,960
Clay - Dry	2,500	1,480
Granite - broken	2,800	1,660
Gravel	2,550	1,510
LS - broken	2,600	1,540
LS - crushed	2,600	1,540
Sandstone	2,550	1,510
Shale	2,100	1,250
Stone - crushed	2,700	1,600
Tailings - Coarse (dry, loose sand)	2,400	1,420
Tailings - Slimes (loose sand & clay)	2,700	1,600
Topsoil	1,600	950
(1) Source	ce: Caterpillar Performano	e Handbook Edition 35

Note: uses Sand & Gravel - Dry from Caterpillar Handbook

Productivity - Scrapers

Description	631G	637G
Empty Weight	100,600	112,760
Payload Capacity (cy)		
Struck	24	24
Heaped	34	34
Average	29	29
Loaded by	One D10R	Self*
Load Time (min)	1	1
Maneuver and Spread (min)	1	1
Job Efficiency	1	1
Rolling Resistance**	3	3
Altitude Deration Factor	1	1

* Requires pair

*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under oad or undulating, maintained fairly regularly, watered

				Dov	nhill Scrape	r Speed - Gr	ade Retardir	ng vs. Effect	tive Grade	(Grade - F	colling Res	istance)		
Weight of M	Materials				63	1G					637G	PP		
Material	lb/cy	Scraper Load	Loaded Weight (Ibs)	22	16	10	5	1	Loaded Weight (lbs)	25	15	10	5	1
Alluvium	2,900	84,100	184,700	7.5	10	13	33	33	196,860	7	10	18.5	34	34
Basalt	3,300	95,700	196,300	7.5	10	13	24.5	33	208,460	7	10	18.5	25	34
Clay - Dry	2,500	72,500	173,100	7.5	10	13	33	33	185,260	7	10	18.5	34	34
Granite - broken	2,800	81,200	181,800	7.5	10	13	33	33	193,960	7	10	18.5	34	34
Gravel	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
LS - broken	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
LS - crushed	2,600	75,400	176,000	7.5	10	13	33	33	188,160	7	10	18.5	34	34
Sandstone	2,550	73,950	174,550	7.5	10	13	33	33	186,710	7	10	18.5	34	34
Shale	2,100	60,900	161,500	7.5	10	18	33	33	173,660	10	13.5	18.5	34	34
Stone - crushed	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Tailings - Coarse (dry, loose sand)	2,400	69,600	170,200	7.5	10	13	33	33	182,360	7	10	18.5	34	34
Tailings - Slimes (loose sand & clay)	2,700	78,300	178,900	7.5	10	13	33	33	191,060	7	10	18.5	34	34
Topsoil	1,600	46,400	147,000	7.5	10	18	33	33	159,160	10	13.5	18.5	34	34
			Empty	10	18	24.5	33	33	Empty	10	13.5	18.5	34	34
									•		Source: (Caterpillar Perfo	rmance Handb	ook Edition 34

Productivity - Scrapers (cont.)

Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	825	2,250	5,300				2142.7	1.34
2	750	1,800	4,600				1838.1	1.30
4	550	1,400	3,000	4,800	6,700		1310.7	1.18
6	490	1,000	2,200	3,300	4,500	5,600	1022.1	1.0
8	375	750	1,600	2,500	3,300	4,200	769.01	1.05
10	300	700	1,300	2,000	2,750	3,450	645.84	1.04
12	250	550	1,100	1,700	2,250	2,800	531.04	1.04
14	225	450	900	1,400	1,850	2.250	452.07	1.00

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

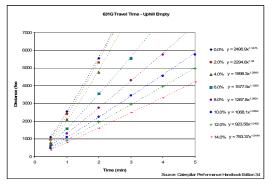
Source: Caterpillar Performance Handbook Edition 35

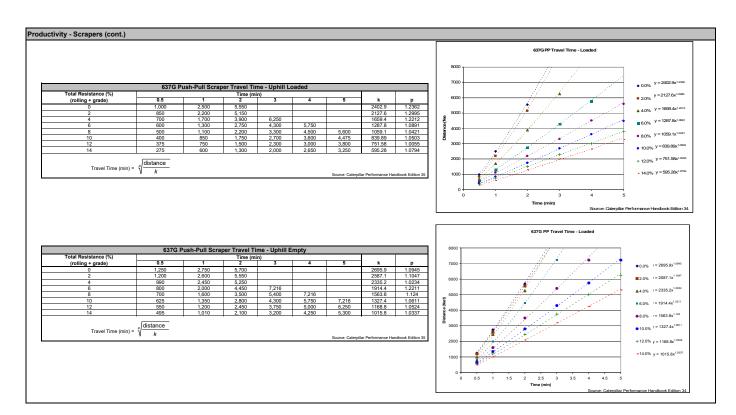
			631G1	Travel Time	- Loaded		
	7000		1	7	- A		
	6000		-1/		/-		♦ 0.0% = 2142.7x ^{1.3418}
	5000		- //	ممي		المعمولين	■ 2.0% '= 1838.1x ^{1.3083}
			11	, in the second	- Ja - 1997		▲ 4.0% r = 1310.7x ^{1.1888}
Distance (fee	4000	1	$\mathcal{F}\mathcal{F}$	200	erit. Serie		■ 6.0% r = 1022.1x ^{1.000}
Dista	3000	1/	Control of the Contro			2000 T	• 8.0% /=769.01x ^{1.0558}
	2000		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				• 10.0% y = 645.84x1.0424
		مراجع المراجع			and the second		+ 12.0% y = 531.04x ^{1.0453} - 14.0% y = 452.07x ^{1.0089}
	1000		111111				14.0% y = 452.0/x
	0 	1	2	3	4	5	
			Time (m	nin)	Source	Nerville Def	ormance Handbook Edition 34

Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	
0	1,100	2,550	5,550				2496.9	1.
2	950	2,400	5,300				2294.8	1
4	800	2,100	4,750				1998.3	1.3
6	700	1,600	3,550	5,550			1557.5	1.1
8	600	1,300	2,750	4,300	5,750		1287.8	1.0
10	500	1,100	2,250	3,450	4,550	5,750	1068.1	1.0
12	450	900	1,950	2,950	3,950	4,950	923.56	1.
14	375	800	1.600	2.500	3.300	4.200	783.37	1.

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

ravel Time (min) = $\sqrt[k]{\frac{\text{distance}}{k}}$





Productivity - Haul Trucks

Haul Truck Specifications												
Description	769D	773E	777D	785C	793C	797B						
Chassis Weight (lb)	53,506	70,330	113,160	170,000	259,500	473,600						
Body Weight (lb)	17,350	20,300	34,785	36,788	70,785	104,200						
Standard Liner Weight (lb)	7,000	8,600	12,040	16,846	24,418	8,800						
Total Truck Weight (lb)	77,856	99,230	159,985	223,634	354,703	586,600						
Payload Capacity (cy)												
Struck	21.6	34.8	55	78.5	126	228						
Heaped	31.7	46	78.6	102	169	290						
Average	26.65	40.4	66.8	90.25	147.5	259						
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7	0.7	0.7						
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1	1.1	1.1						
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83						
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5						
Altitude Deration Factor	1	1	1	1	1	1						

"A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

							Downhi	I Haul Trucl	k Speed - (Grade Retar	ding vs. I	Effective (Grade (Gra	ade - Rol	ling Resis	stance)			
	Weight of Mate	rials			769D				773E					777D					
Material	lb/cy	Truck (769D) Load lb	Truck (773E) Load Ib	Truck (777D) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	77,285	117,160	193,720	155,141	11	11	15	26	216,390	7	7	13	23	353,705	7	9	12	29
Basalt	3,300	87,945	133,320	220,440	165,801	11	11	11	20	232,550	7	7	13	23	380,425	7	7	12	21
Clay - Dry	2,500	66,625	101,000	167,000	144,481	11	11	15	26	200,230	7	9	13	23	326,985	7	9	16	29
Granite - broken	2,800	74,620	113,120	187,040	152,476	11	11	15	26	212,350	7	7	13	23	347,025	7	9	12	29
Gravel	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
LS - broken	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
LS - crushed	2,600	69,290	105,040	173,680	147,146	11	11	15	26	204,270	7	9	13	23	333,665	7	9	12	29
Sandstone	2,550	67,958	103,020	170,340	145,814	11	11	15	26	202,250	7	9	13	23	330,325	7	9	16	29
Shale	2,100	55,965	84,840	140,280	133,821	11	11	15	26	184,070	7	9	13	31	300,265	7	9	16	29
Stone - crushed	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Tailings - Coarse (dry, loose sand)	2,400	63,960	96,960	160,320	141,816	11	11	15	26	196,190	7	9	13	23	320,305	7	9	16	29
Tailings - Slimes (loose sand & clay)	2,700	71,955	109,080	180,360	149,811	11	11	15	26	208,310	7	7	13	23	340,345	7	9	12	29
Topsoil	1,600	42,640	64,640	106,880	120,496	11	11	15	26	163,870	7	9	17	31	266,865	9	12	16	29
	•		•	•	Empty	15	15	26	36	Empty	13	17	23	42	Empty	16	16	29	39

					Downhill Haul Truck Speed -					Grade Reta	rding vs.	Effective (Grade (Gr	ade - Rol	ling Resis	tance)			
	Weight of Mate	rials					785C					793C			797B				
Material	lb/cy	Truck (785C) Load lb	Truck (793C) Load Ib	Truck (797B) Load Ib	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	261,725	427,750	751,100	485,359	8	8	14	27	782,453	7	7	10	17	1,337,700	7	7	9	17
Basalt	3,300	297,825	486,750	854,700	521,459	8	8	14	27	841,453	7	7	10	17	1,441,300	7	7	9	17
Clay - Dry	2,500	225,625	368,750	647,500	449,259	8	11	14	36	723,453	7	7	10	25	1,234,100	7	7	9	23
Granite - broken	2,800	252,700	413,000	725,200	476,334	8	8	14	27	767,703	7	7	10	17	1,311,800	7	7	9	17
Gravel	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
LS - broken	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
LS - crushed	2,600	234,650	383,500	673,400	458,284	8	8	14	27	738,203	7	7	10	25	1,260,000	7	7	9	23
Sandstone	2,550	230,138	376,125	660,450	453,772	8	8	14	36	730,828	7	7	10	25	1,247,050	7	7	9	23
Shale	2,100	189,525	309,750	543,900	413,159	8	11	14	36	664,453	7	7	10	25	1,130,500	7	7	13	23
Stone - crushed	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Tailings - Coarse (dry, loose sand)	2,400	216,600	354,000	621,600	440,234	8	11	14	36	708,703	7	7	10	25	1,208,200	7	7	9	23
Tailings - Slimes (loose sand & clay)	2,700	243,675	398,250	699,300	467,309	8	8	14	27	752,953	7	7	10	17	1,285,900	7	7	9	23
Topsoil	1,600	144,400	236,000	414,400	368,034	8	11	19	36	590,703	7	10	13	25	1,001,000	7	9	13	23
					Empty	14	19	36	36	Empty	10	13	17	33	Empty	13	17	23	42
																Source: Ca	ternillar Perfor	mance Handbo	ok Edition 35

Productivity - Haul Trucks (cont.)

	769D Haul Truck Travel Time - Uphill Loaded												
Total Resistance (%)		Time (min)											
(rolling + grade)	0.4	1	2	3	4	5	k	р					
0	1,148	3,428	7,183				3316.3	1.1422					
4	689	1,984	4,198	6,330			1928.3	1.1033					
6	508	1,427	2,952	4,510	6,002		1386.4	1.0725					
8	394	1,082	2,263	3,411	4,592	5,740	1061.8	1.06					
10	328	869	1,771	2,690	3,608	4,510	857.82	1.0373					
15	213	574	1,181	1,804	2,394	3,018	565	1.0482					

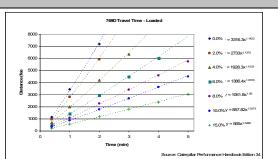
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

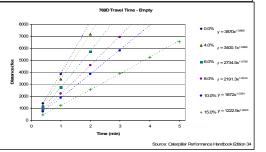
Source: Caterpillar Performance Handbook Edition 35

	769D Haul Truck Travel Time - Uphill Empty												
Total Resistance (%)			Time (mi	n)									
(rolling + grade)	0.4	1	2	3	4	5	k	р					
0	1,427	3,870					3870	1.0888					
4	1,246	3,444	7,183				3400.1	1.0895					
6	1,017	2,755	5,740				2734.5	1.0759					
8	820	2,230	4,592	6,954			2191.3	1.0614					
10	722	1,870	3,870	5,838			1872	1.0391					
15	459	1,246	2,558	3,903	5,248	6,560	1222.9	1.0523					

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Server Catarrillas Dadamanas Handhask Edition





Productivity - Haul Trucks (cont.)

773E Haul Truck Travel Time - Uphill Loaded												
Total Resistance (%)		Time (min)										
(rolling + grade)	0.4	1	2	3	4	5	k	р				
0	1,066	3,117	6,496				3027.4	1.1254				
4	656	1,952	4,035	6,168			1863.1	1.1109				
6	492	1,312	2,756	4,167	5,577	6,955	1304.2	1.0507				
8	394	1,017	2,100	3,182	4,265	5,315	1018.2	1.0326				
10	328	853	1,804	2,690	3,609	4,528	856.36	1.041				
15	226	525	1,083	1,673	2,231	2,789	549.25	1.0038				

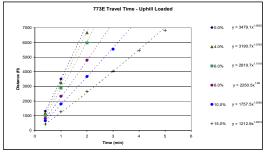
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Source: Caternillar Performance Handbook Edition 35

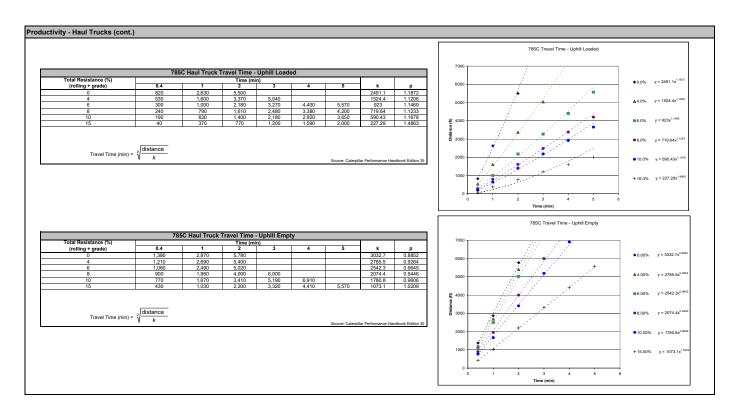
	773E Travel Time - Uphill Loaded		
7000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	◆0.0%	y = 3027.4x ^{1.125}
6000		▲4.0%	y = 1863.1x ^{1.110}
4000		■6.0%	y = 1304.2x ^{1.050}
3000		●8.0%	y = 1018.2x ^{1.002}
2000	Colored American	• 10.0%	y = 856.36x ^{1.04}
1000	e de la companya del companya de la companya del companya de la co	+ 15.0%	y = 549.25x ^{1.000}
0	1 2 3 4 5	6	

773E Haul Truck Travel Time - Uphill Empty Total Resistance (%) Time (min)												
		Time (mi	n)			T .						
0.4	1	2	3	4	5	k	р					
1,312	3,510	7,218				3479.1	1.0602					
1,181	3,248	6,660				3190.7	1.0763					
1,017	2,887	5,971				2819.7	1.1018					
820	2,329	4,790	7,218			2250.5	1.08					
656	1,804	3,675	5,545			1757.5	1.0592					
427	1,280	2,657	4,035	5,446	6,824	1212.9	1.0915					
	0.4 1,312 1,181 1,017 820 656	0.4 1 1,312 3,510 1,181 3,248 1,017 2,887 820 2,329 656 1,804	0.4 1 2 1,312 3,510 7,218 1,181 3,248 6,660 1,017 2,887 5,971 820 2,329 4,790 656 1,804 3,675	Time (min)	Time (min)	Time (min)	Time (min)					

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$



Productivity - Haul Trucks (cont.) 777DTravel Time - Uphill Loaded 777D Haul Truck Travel Time - Uphill Loaded Total Resistance (%) (rolling + grade) Time (min) ♦ 0.0% y = 2403.1x^{1.3876} | 2403.1 | 1.3876 | 5.215 | 7.085 | 1412 | 1.1863 | 3.706 | 5.018 | 6.298 | 1111 | 1.0949 | 2.837 | 3.772 | 4.756 | 922.57 | 1.0197 | 2.165 | 2.919 | 3.008 | 721.44 | 1.027 | 1.558 | 2.034 | 2.591 | 520.56 | 0.9905 | 6,068 3,313 2,460 1,886 1,443 1,017 656 459 394 ▲ 4.0% y = 1421x^{1.1863} ■6.0% y = 1111x1.0949 ₫ 4000 • 8.0% y = 922.57x^{1.0197} Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ • 10.0% y=721.44x1.0027 + 15.0% y = 520.56x^{0.990} Source: Caterpillar Performance Handbook Edition 34 777D Travel Time - Uphill Empty 777D Haul Truck Travel Time - Uphill Empty Total Resistance (%) (rolling + grade) 0.4 2 6,560 6,068 5,182 4,248 3,378 2,460 k p 2929.3 1.192 2532.8 1.2999 2167.3 1.2873 1846.2 1.1831 1528.4 1.1332 1139.7 1.072 968 754 656 607 525 410 3,034 2,657 2,247 1,935 1,607 1,197 ◆ 0.0% y = 2929.3x1.192 6,560 5,215 3,706 ▲ 4.0% y = 2532.8x^{1,2999} ■ 6.0% y = 2167.3x1.2873 **4000** Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ • 8.0% y = 1846.2x1.1031 • 10.0% y = 1528.4x^{1.1332} + 15.0% y = 1139.7x1.072 1000 Source: Caterpillar Performance Handbook Edition 34



Productivity - Haul Trucks (cont.)

	793C Haul Truck Travel Time - Uphill Loaded												
Total Resistance (%)													
(rolling + grade)	0.5	1	2	3	4	5	k	р					
0	1,230	2,570	5,300				2558.8	1.0537					
4	800	1,600	3,400	5,190	7,000		1634.8	1.0485					
6	520	1,090	2,300	3,560	4,760	5,970	1091.9	1.0635					
8	390	810	1,760	2,700	3,630	4,570	820.99	1.0743					
10	260	630	1,200	2,180	2,930	3,690	589.82	1.1481					
15	150	380	810	1,300	1,760	2,210	355.44	1.1605					

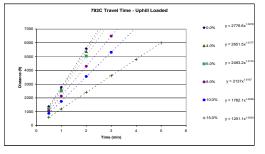
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Source: Caternillar Performance Handbook Edition 3

	793C Travel Time - Uphill L	oaded	
7000	<u> </u>	◆0.0%	y = 2558.8x ^{1.053}
6000		▲4.0%	y = 1634.8x ^{1.040}
5000		● ■6.0%	y = 1091.9x ^{1.060}
3000 H	A STATE OF THE STA	• 8.0%	y = 820.99x ^{1.07}
2000 -		+	y = 589.82x ^{1.16}
1000		+ 15.0%	y = 355.44x ^{1.10}
0	1 2 3 4 Time (min)	5 6	

793C Haul Truck Travel Time - Uphill Empty Total Resistance (%) Time (min)												
		Time (mi	n)				,					
0.5	1	2	3	4	5	k	р					
1,380	2,780	5,580				2776.6	1.0078					
1,310	2,650	5,370				2651.5	1.0177					
1,230	2,500	5,040				2493.2	1.0174					
1,060	2,140	4,300	6,490			2137	1.0107					
880	1,750	3,560	5,310			1762.1	1.0059					
600	1,200	2,410	3,610	4,800	6,000	1201.1	1.0003					
	0.5 1,380 1,310 1,230 1,060 880	0.5 1 1,380 2,780 1,310 2,650 1,230 2,500 1,060 2,140 880 1,750	Time (mi 0.5 1 2 1,380 2,780 5,580 1,310 2,650 5,370 1,230 2,600 5,040 1,060 2,140 4,300 880 1,750 3,560	Time (min)	Time (min) 0.5 1 2 3 4 1,380 2,780 5,580 1,310 2,650 5,370 1,230 2,500 5,040 1,060 2,140 4,300 6,490 880 1,750 3,560 5,310	Time (min)	Time (min)					

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

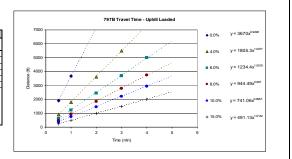


Productivity - Haul Trucks (cont.)

	797B Haul Truck Travel Time - Uphill Loaded													
Total Resistance (%)			Time (mi	n)										
(rolling + grade)	0.5	1	2	3	4	5	k	р						
0	1,900	3,670					3670	0.9498						
4	900	1,800	3,620	5,480			1805.3	1.0077						
6	620	1,230	2,450	3,700	5,000		1234.4	1.0019						
8	480	940	1,850	2,790	3,750		944.49	0.987						
10	370	750	1,460	2,220	2,950		741.06	0.9957						
15	240	500	1,000	1,480	2,000		491.13	1.0142						

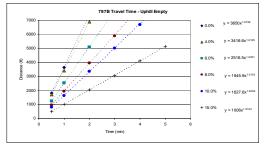
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Source: Caternillar Performance Mandhook Edition 35



	797	B Haul Truck	Travel Time	- Uphill Emp	ty			
Total Resistance (%)			Time (mi	n)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	1,800	3,650					3650	1.0199
4	1,700	3,400	6,900				3416.6	1.0105
6	1,240	2,520	5,100				2516.5	1.0201
8	960	1,950	3,960	5,900			1945.9	1.0152
10	800	1,620	3,350	5,000	6,700		1627.6	1.0239
15	500	1,000	2,040	3,050	4,100	5,130	1006	1.0124

Travel Time (min) = $\sqrt[\beta]{\frac{\text{distance}}{k}}$



Productivity - Articulated Trucks

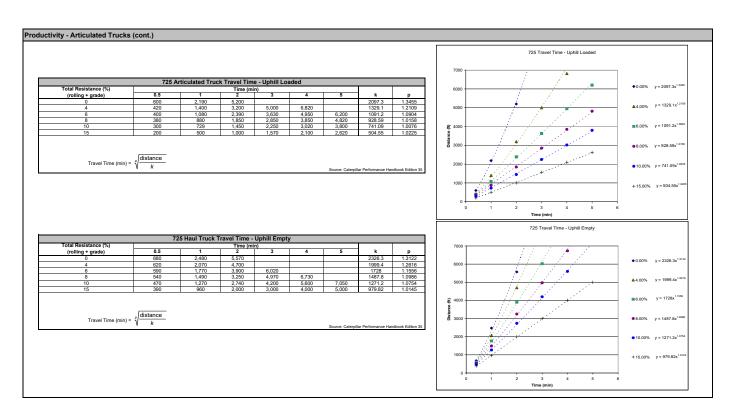
Artic	culated Truck Spe	cifications		
Description	725	730	735	740
Chassis Weight (lb)				
Body Weight (lb)				
Standard Liner Weight (lb)				
Operating Weight (Empty) (lb)	50,120	51,220	65,830	72,070
Payload Capacity (cy)				
Struck	14.5	17.1	19.3	23.3
Heaped	18.8	22.1	31.8	30.2
Average	16.65	19.6	25.55	26.75
Maneuver to Load Time (min)	0.7	0.7	0.7	0.7
Maneuver and Dump Time (min)	1.1	1.1	1.1	1.1
Job Efficiency	0.83	0.83	0.83	0.83
Rolling Resistance**	2.5	2.5	2.5	2.5
Altitude Deration Factor	1	1	1	1

*A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

					Downhill Hau	Truck Speed	- Grade Retai	rding vs. Effe	ective Grade	(Grade - I	Rolling Res	istance)	
Weigl	ht of Materials					725					730		
Material	lb/cy	Truck (725) Load lb	Truck (730) Load Ib	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	48,285	56,840	98,405	9	9	13	30	108,060	5	8	13	29
Basalt	3,300	54,945	64,680	105,065	5	9	13	22	115,900	5	8	13	29
Clay - Dry	2,500	41,625	49,000	91,745	9	13	13	30	100,220	8	8	13	29
Granite - broken	2,800	46,620	54,880	96,740	9	13	13	30	106,100	5	8	13	29
Gravel	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
LS - broken	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
LS - crushed	2,600	43,290	50,960	93,410	9	13	13	30	102,180	8	8	13	29
Sandstone	2,550	42,458	49,980	92,578	9	13	13	30	101,200	8	8	13	29
Shale	2,100	34,965	41,160	85,085	9	13	22	30	92,380	8	13	13	29
Stone - crushed	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Tailings - Coarse (dry, loose sand)	2,400	39,960	47,040	90,080	9	13	13	30	98,260	8	8	13	29
Tailings - Slimes (loose sand & clay)	2,700	44,955	52,920	95,075	9	13	13	30	104,140	8	8	13	29
Topsoil	1,600	26,640	31,360	76,760	9	13	22	30	82,580	8	13	22	35
				Empty	13	13	22	30	Empty	13	13	22	35

					Downhill Hau	Truck Speed	- Grade Reta	rding vs. Eff	ective Grade	(Grade -	Rolling Res	istance)	
Weig	ht of Materials					735					740		
Material	lb/cy	Truck (735) Load Ib	Truck (740) Load lb	Loaded Weight (lbs)	20	15	10	5	Loaded Weight (lbs)	20	15	10	5
Alluvium	2,900	74,095	77,575	139,925	7	9	13	27	149,645	7	9	17	23
Basalt	3,300	84,315	88,275	150,145	7	9	13	27	160,345	7	9	13	23
Clay - Dry	2,500	63,875	66,875	129,705	7	9	13	27	138,945	9	13	17	31
Granite - broken	2,800	71,540	74,900	137,370	7	9	13	27	146,970	7	9	17	23
Gravel	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
LS - broken	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
LS - crushed	2,600	66,430	69,550	132,260	7	9	13	27	141,620	7	9	17	31
Sandstone	2,550	65,153	68,213	130,983	7	9	13	27	140,283	7	9	17	31
Shale	2,100	53,655	56,175	119,485	9	9	18	27	128,245	7	13	17	31
Stone - crushed	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Tailings - Coarse (dry, loose sand)	2,400	61,320	64,200	127,150	7	9	13	27	136,270	9	13	17	31
Tailings - Slimes (loose sand & clay)	2,700	68,985	72,225	134,815	7	9	13	27	144,295	7	9	17	23
Topsoil	1,600	40,880	42,800	106,710	9	13	18	36	114,870	9	13	17	31
				Empty	13	18	27	42	Empty	17	17	23	31
				Empty	13	18	27	42	Empty		17 Caterpillar Perf		

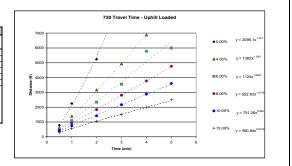


Productivity - Articulated Trucks (cont.)

	730 A	rticulated Truc	k Travel Tim	e - Uphill Lo	aded			
Total Resistance (%)			Time (m	in)				
(rolling + grade)	0.5	1	2	3	4	5	k	р
0	780	2,250	5,240				2095	1.374
4	610	1,390	3,170	4,930	6,880		1382	1.1651
6	540	1,100	2,340	3,550	5,780	6,000	112	1.0847
8	460	920	1,840	2,810	3,770	4,760	922.63	1.0145
10	390	750	1,420	2,170	2,880	3,600	751.26	0.965
15	300	560	1,050	1,500	1,995	2,500	560.84	0.9152

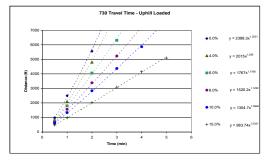
Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$

Source: Caterpillar Performance Handbook Edition 35

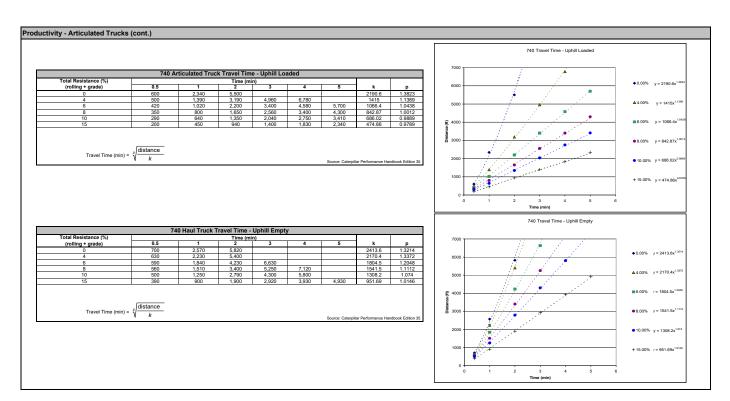


	730 Haul Truck Travel Time - Uphill Empty										
Total Resistance (%)		Time (min)									
(rolling + grade)	0.5	1	2	3	4	5	k	р			
0	980	2,500	5,560				2388	1.25621			
4	810	2,100	4,810				2015	1.285			
6	770	1,800	4,060	6,310			1767	1.1766			
8	680	1,560	3,390	5,230	7,070		1520.2	1.1252			
10	595	1,340	2,840	4,370	5,870		1304.7	1.0994			
15	480	980	2,020	3,090	4,150	5,090	983.74	1.0321			

Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$



Productivity - Articulated Trucks (cont.) 735 Travel Time - Uphill Loaded 735 Articulated Truck Travel Time - Uphill Loaded Total Resistance (%) (rolling + grade) Time (min) ♦ 0.00% y = 2166x^{1.2254} 4 5 k p 2166 12264 1.2254 6,100 1410.5 1.0528 4,570 5,770 1095.6 1.0223 3,370 4,200 879.73 0.9546 2,800 3,500 754.84 0.9332 1,900 2,390 519.31 0.9268 2,200 1,350 1,020 5,020 2,950 2,200 1,650 1,400 970 4,520 3,400 2,530 2,100 1,400 ▲4.00% y = 1410.5x^{1.052} 810 700 500 ■6.00% y = 1095.6x^{1.02} ●8.00% y = 879.73x^{0.9546} Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ • 10.00% y = 754.84x^{0.90} + 15.00% y = 519.31x^{0.5058} Time (min) 735 Travel Time - Uphill Empty 735 Haul Truck Travel Time - Uphill Empty Total Resistance (%) Time (min) (rolling + grade) 0.5 2 3 4 5 5.140 4,760 6.370 2.900 4.400 5.950 2.600 4.030 5.450 6.900 1.660 2.540 3.390 4.200 k p 2200.2 1.2606 1999.7 1.2795 1751.7 1.1953 1414.4 1.0306 1203 1.0924 871.57 0.969 2,300 2,070 1,770 1,370 1,200 840 680 610 580 560 440 ♦0.00% y = 2200.2x^{1.2606} ▲4.00% _/ = 1999.7x^{1.2795} ■6.00% /= 1751.7x^{1.1953} Travel Time (min) = $\sqrt[p]{\frac{\text{distance}}{k}}$ ●8.00% /= 1414.4x^{1.0306} . +15.00% y = 871.57x^{0.969} Time (min)



Source: Caterpillar Performance Handbook Edition 35; LeTourneau/actual Chilean mine operating data for L2350.

Productivity - Wheel Loaders

				Whee	el Loader Spe	ecifications								
Description	924G	928G	950G	966G	972G	972G (2)	980G	988G	988G(2)	990	992G	992G(2)	994D	L2350
Payload Capacity (cy)														
Struck	2.2	2.5	3.46	4.46	4.71	4.71	6.34	6.9	6.9	9.5	13.2	13.2	18	
Heaped	2.7	3.25	4	5.25	5.5	5.5	7.25	8.33	8.33	11.25	16	16	22.5	
Average	2.45	2.875	3.73	4.855	5.105	5.105	6.795	7.615	7.615	10.375	14.6	14.6	20.25	53
Matched Truck	N/A	N/A	N/A	725	730	735	N/A	740	769D	773D	777D	785C	793C	797B
Average Cycle Time (min)	0.45	0.45	0.5	0.5	0.5	0.5	0.55	0.55	0.55	0.55	0.6	0.6	0.6	0.75
Passes to Fill Truck	N/A	N/A	N/A	3	4	5	N/A	4	3	4	5	6	7	5
Altitude Deration Factor	1	1	1	1	0.92	0.92	1	1	1	1	1	1	1	1
Operator Efficiency	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	N/A	N/A	N/A	1.5	1.84	2.3	N/A	2.2	1.65	2.2	3	3.6	4.2	3.75
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Loader matched to small truck fleet Loader matched to medium truck fleet Loader matched to large truck fleet Loader matched to extra large truck fleet



**A firm, smooth, rolling roadway with dirt or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 992G (2) - can be used to load 785 with 6 passes

Wheeled Loaders	General Purpose	Spade Nose- Rock
928G	3.25 cubic yard	not available
966G	5.0 cubic yard	not available
972G	5.5 cubic yard	not available
988G	not available	8.3 cubic yard
992G	not available	16.0 cubic vard

note: capacities are 2:1 heaped, SAE standards
NOTES: Buskets for both Track Excavators and Wheel Loaders are offered by CECo &
variables for the rental rates quoted. Busket sizes and capacities obtained from CATERPILLAR
PERFORMANCE HANDBOOK, ED 34, Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, i.e., shot, loose, sight bank, stockpile, rook, etc. Typical Newada applications were used to determine above bucket capacities as related to materi

Productivity - Shovels

Shove	I Specification	s (Komatsu eq	juivalent)		
Description	PC2000	PC3000	PC4000	PC5500	PC8000
Payload Capacity (cy)					
Struck	10.46	18.84	26.16	33.48	47.09
Heaped	14.39	25.9	35.97	46.04	64.75
Average	12.43	22.37	31.07	39.76	55.92
Matched Truck	740	777D	785C	793C	797B
Average Cycle Time (min)	0.49	0.49	0.59	0.59	0.69
Passes to Fill Truck	2.05	2.84	3.38	4.69	5.11
Altitude Deration Factor	1	1	0.9	1	1
Operator Efficiency	1	1	1	1	1
Job Efficiency	0.83	0.83	0.83	0.83	0.83
Time to Fill Truck	1.68	2.33	3.32	4.61	5.86
Rolling Resistance**	2.5	2.5	2.5	2.5	2.5

Shovel matched to small truck fleet Shovel matched to medium truck fleet
Shovel matched to large truck fleet
Shovel matched to extra large truck fleet

"A firm, smooth, rolling roadway with drit or light surfacing, flexing slightly under load or undulating, maintained fairly regularly, watered 1900 (27) - can be used to load 178 with 6 passes Source Categorian Categorian Performance Handbook Edition 30, Komateu actual Pervisian mine (Lagunas Norte) operating data for PC4000.

Productivity - Motor Graders

Motor Grader Specifications									
Description	120H	14G/H	16G/H	24M					
Grader Width (ft)	8	9.25	10.08	14.04					
Blade Width (ft)	12	14	16	16					
Ripper Width (7 shanks) (ft)	7.6	8.5	9.75	12.83					
Road Maintence Speed (mph)									
Minimum	3	3	3	3					
Maximum	9.5	9.5	9.5	9.5					
Average	6.25	6.25	6.25	6.25					
Hourly Production	33,000	33,000	33,000	33,000					
Ripping Speed (mph)	1	1	1	1					
Minimum	0	0	0	0					
Maximum	3	3	3	3					
Average	1.5	1.5	1.5	1.5					
Altitude Deration Factor	1	1	1	1					
Hourly Production (with job efficiency									
correction & altitude deration factors)									
(excluding manuever time)	6,574	6,574	6,574	6,574					
Maneuver time per pass (min)	0.5	0.5	0.5	0.5					
Operator Efficiency	1	1	1	1					
Job Efficiency	0.83	0.83	0.83	0.83					

Productivity - Excavators

Track Excavator Specifications									
Description	312C	320C	325C	330C	345B	365BL	385BL		
Bucket Capacity (cy)	0.68	1.57	2.22	2.22	3	4.6	7.3		
Fill Factor	0.9	0.9	0.9	0.9	0.9	0.9	0.9		
Average Bucket Load (cy)	0.612	1.413	1.998	1.998	2.7	4.14	6.57		
Soil Type	packed earth	hard clay							
Job Condition	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard		
Cycle Times (minutes) - based on hard cla	ay								
Load Bucket	0.07	0.09	0.09	0.09	0.13	0.1	0.19		
Swing Loaded	0.06	0.06	0.06	0.07	0.07	0.09	0.06		
Dump Bucket	0.03	0.03	0.04	0.04	0.02	0.04	0.03		
Swing Empty	0.05	0.05	0.06	0.07	0.06	0.07	0.07		
Total Cycle Time	0.21	0.23	0.25	0.27	0.28	0.3	0.35		
Job Efficiency	0.83	0.83	0.83	0.83	0.83	0.83	0.83		
Operator Efficiency	1	1	1	1	1	1	1		
Altitude Deration Factor	1	0.9	1	1	1	1	1		
Corrected Productivity (LCY/hr)	145	275	398	369	480	687	935		
Exploration Road Cycle Time (1) (min)	N/A	0.38	0.4	N/A	0.42	N/A	N/A		
Exploration Road Corr Prod (LCY/hr)	N/A	167	249	N/A	320	N/A	N/A		
Track Width (ft)	8.17	9.17	9.83	10.5	11.42	11.5	11.5		
Ditch/Trench Excavation									
Bucket Capacity (cy)	0.42	0.58	0.88	0.89	2.09	3.27	2.75		
Fill Factor	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
Corrected Productivity (LCY/hr)	50	57	88	82	186	271	196		

Track Excavators	Hvy Duty Rock	Extreme Service Exc	Hvy Duty Trench
		(e.g. haulroad recontour)	
312C	30", 0.68 cubic yd	47", 0.94 cubic yd	22", .42 cubic yd
320C	30", 0.90 cubic yd	55.1", 1.57 cubic yd	23.6", .58 cubic yd
325C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .88 cubic yd
330C	36", 1.25 cubic yd	60", 2.22 cubic yd	30", .89 cubic yd
345B	43.2", 1.69 cubic yd	65", 3.0 cubic yd	48", 2.09 cubic yd
365BL	60", 3.25 cubic yd	82", 4.6 cubic yd	59", 3.27 cubic yd
385BL	85", 6.30 cubic yd.	96.0, 7.30 cubic yd	57", 2.75 cubic yd

Note: capacities are 2:1 heaped, SAE standards NOTES: Buckets for both Track Excavators and Wheel Loaders are offered by CECo &

available for the rental rates quoted. Bucket sizes and capacities obtained from CATERPILLAR PERFORMACE HANDBOOK ED 34. Section 12, Wheel Loader and Section 6, Excavators Bucket capacity and with dictable by material weight and configuration, i.e. shot, loss tight bank, shockpie, rock, etc. Tylical Nevoda applications were used to determine above bucket capacities as related to materials & denoties. Job vile specifics may alter specific bucket requirements (Cashama Equipment, Elso, Nevoda - February 21, 2005)

(1) Exploration cycle time assumes feathering/smoothing performed by excavator

Concrete Breaking Production

345B s H160D s oncrete	385BL H180D s
oncrete	
200	
	350
850	1,550
575	950
0.83	0.83
1	1
	575

Source: Caterpillar Performance Handbook Edition 35

Page 54 of 56 Productivity

Drill Hole Plugging Productivity

Description	g Productivity Drill Rig Pump Rig		
Move-to-hole, set-up, tear-down(1)	2	2	
Move-to-riole, set-up, tear-down	2		
Trip in tremmie pipe (1)	500		
ттр тт и и и и и и и и и и и и и и и и и	000		
Pulling casing (threaded, not cemented)	200		
Single-pass perforating (water wells)	Productivity(all p	Passes	
4	60	4	
6	60	4	
8	50	4	
12	45	6	
18	40	9	
24	28	12	
Perforation setup,trip in/out,tear-down	2		
Perforation tool cost (wear cost)(3)	2.5		
Inert Material Placement (backfill) Grouting/Cement (4) (cy/hr)		5.33	
Cuttings (see below) (cy/hr)		3.5	
Sources:	Drillers daily logs Barrick, New W Eagle, Idaho Ge	est Gold, Agn	
	Drillers daily logs Barrick,	from Newmo	
	Drillers daily log 4. WDC Explo		
outtings Placement Productivity	Soumoe: WDC E	xploration, Dec 2	
Shift productivity (Means 02210-700-			
0120: Crew B11M)	28	cy / shift	
Shift length	8	hours	
Estimated Hourly Productivity	0	cy / hour	

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	0.700	700 4500	Elevation	0000 0000	2000 2000	0000 4000
	0-760 m (0-2500')	760-1500 m (2500-5000')	1500-2300 m (5000-7000')	2300-3000 m (7500-10,000')	3000-3800 m (10,000-12,000')	3800-4600 m (12,500-15,000')
MODEL dozers	CAT User	CAT User	CAT User	CAT User	CAT User	CAT User
aozers R	100	100	100	100	92	84
R w/ Winch	100	100	100	100	92	84
R	100	100	100	100	100	96 77
BR	100	100	100	93	85	77
R	100	100	100	93	85 97	77 89
OR 1R	100	100	100	93	85	77
eled Dozers	100	100	100	85	0.0	- ''
4G	100	100	100	100	92	84
4G	100	100	100	100	92	84
4	100	100	100	100	100	96
4G ders	100	100	100	93	85	77
oers OH	100	100	100	100	96	93
G/H	100	100	100	100	98	96
G/H	100	100	100	100	98	96
M	100	100	100	100	98	96
ivators						
2C	100	100	100	83	78	73
0C 5C	100 100	100	90	87 100	83 100	76 100
0C	100	100	100	100	100	100
5B	100	100	100	100	93	93
5BL	100	100	100	86	86	86
5BL	100	100	100	93	85	78
npers	400	400	400	400	0.7	00
1G	100	100	100	100	97	90
7G ders	100	100	100	95	87	80
4G	100	100	100	100	97	89
8G	100	100	100	100	92	85
0G	100	100	100	100	100	100
6G	100	100	100	100	96	88
2G	100	100	92	84	77	70
0G	100	100	100	100	96	88
8G 0	100 100	100	100 100	95 100	85 92	75 85
2G	100	100	100	100	92	87
4D	100	100	100	100	96	88
350	100	100	100	100	96	90
vels						
22000	100	100	100	100	96	90
3000	100	100	100	100	96	90
24000 25500	100	100	100 100	100	96 96	90
28000	100	100	100	100	96	90
er Equipment	·					
DD 4WD Backhoe	99	97	95 95	91	91	91
8D 4WD Backhoe	99	97		91	91	91
6533E Vibratory Roller 6633E Vibratory Roller	100	100	98 100	95 100	91	86 86
533E Vibratory Roller 533E Sheepsfoot Compactor	100	100	98	95	91	100
P633E Sheepsfoot Compactor	100	100	100	100	91	86
tht Truck - 1.5 Ton	100	100	100	100	91	00
pervisor's Truck						
atbed Truck						
Compressor + tools						
elding Equipment						
eavy Duty Drill Rig						
Imp (plugging) Drill Rig						
oncrete Pump as Engine Vibrator						
enerator 5KW						
DEP Welder (pipe or liner)						
Ton Crane						
Ton Crane						
Ton Crane						
0 Ton Crane						
:ks	400	400	400	400	400	05
5	100	100	100	100	100	95
5	100 100	100	100 100	100 100	100 99	95 91
0	100	100	100	100	99	91
9D	100	100	100	93	88	82
3E	100	100	100	100	93	85
7D	100	100	100	100	93	87
5C	100	100	100	93	86	80
3C	100	100	100	100	100	93
7B	100	100	100	100	100	93
3E (5,000 gal) Water Wagon 1E (8,000 gal) Water Wagon	100 100	100	100 100	100 100	95 97	87 90
	100	100	100	100	97	87
7D Water Truck	100	100	100	93	86	80
7D Water Truck	100					
7D Water Truck 5C Water Truck	100		, , , , , , , , , , , , , , , , , , ,			
D Water Truck	100	100				