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DRMS Recd: July 21,2023

Mr. Dustin Czapla
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Rm. 215
Denver, CO 80203

Project: USPR001303
July 13, 2023

Subject Amendment to Notice of Intent P-2022-019 to Conduct Prospecting Operations for the REX Project in Montrose County, Colorado

Dear Mr. Czapla,

On behalf of Sunrise Minerals Inc. (Sunrise), SRK Consulting (U.S.), Inc. (SRK) submits the enclosed *Notice of Intent to Conduct Prospecting Operations* (NOI) as an amendment to NOI P-2022-019 for the REX Project located in Montrose County Colorado. The NOI is included as Attachment 1. Related figures, drill site coordinates, and claims are included as attachments 2 through 4.

Sunrise proposes to amend the existing NOI to conduct additional exploration drilling for the REX Project in an area that has been accessed for mining and exploration purposes for several decades. Most roads are existing and in many locations the road is on bedrock. The majority of the existing roads will NOT require improvement for access. Areas of existing roads that will require improvement are noted on the figures. Proposed drill pads will be located adjacent to roads whether existing or proposed. The existing roads and laydown yard authorized with the original NOI will continue to be used under this amendment. Disturbance calculations and photographs are included as attachments 6 and 7.

The amended drilling program is expected to start at the earliest in May 2024 at the conclusion of winter range limitations for wildlife and raptor nest and burrowing owl surveys tentatively planned for March/April 2024. Prior to drilling, Sunrise will apply for or renew the access permit as required by Montrose County zoning regulations. Both the Bureau of Land Management Uncompahgre Field Office and Montrose County have been notified of the submission of this NOI as evidenced by attachments 5 and 10, respectively.

Financial warranty documents are a requirement for the submittal of an NOI. The *Affidavit of Authority* and *One Site Prospecting Financial Warranty* paperwork to cover the estimated reclamation cost of disturbance described in the NOI and will be submitted, with wet signatures, once the required amount of warranty has been determined. A reclamation cost estimate has been prepared and can be found in Attachment 9. This estimate is in addition to the current financial warranty in place for the original NOI. Prospecting operations at the REX Project will not begin until the financial warranty has been accepted and approved. Financial warranty documents will be submitted under a separate cover.

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.

Cari Anderson, E.I.
Principal Consultant

Enclosure:

USB Drive containing digital copies of the submittal including GIS data
Application Fee $86.00 check #2110

Attachments:

Attachment 1	Notice of Intent to Conduct Prospecting Operations Form 2
Attachment 2	Figures
Attachment 3	Drill Site Coordinates
Attachment 4	List of Claims
Attachment 5	Evidence of Notification of BLM
Attachment 6	Disturbance Calculations
Attachment 7	Photographs
Attachment 8	BLM West Side Seed Mix
Attachment 9	Reclamation Cost Estimate
Attachment 10	Montrose County Commissioner Notification

Attachment 1 Notice of Intent to Conduct Prospecting Operations Form 2

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

1313 Sherman Street, Room 215
Denver, CO 80203

Form 2 (Public File)
NOTICE OF INTENT TO CONDUCT PROSPECTING OPERATIONS FOR HARD ROCK/METAL MINES

CHECK ONE:

☐ **There is an NOI Number Already Assigned to this Operation** (Please reference the file number assigned to this operation) **NOI # P-** ____ - ____

☐ **New** NOI

☑ **Modification** to an Existing NOI (Provide for Modifications to an existing NOI) **NOI# P-** 2022 - 019

GENERAL OPERATION INFORMATION
Type or print clearly, in the space provided, ALL information described below.

I. GENERAL INFORMATION

1. DATE NOI RECEIVED BY THE DIVISION:

(office use only)

2. PROJECT NAME: REX Property

3. PROSPECTOR:

Malcolm Day
Name

Executive
Title

Sunrise Minerals Inc
Company Name

PERSON MLRB SHOULD CONTACT:

Rodney A Blakestad
Name

Consulting Geologist
Title

Gold Canyon Partners LLC
Company Name

4691 Luna Circle	1602 W Placita Sin Nieve
Street	Street
P.O. Box	P.O. Box
Moab, UT 84532	Sahuarita, AZ 85629
City, State, Zip	City, State, Zip
(435) 260-1787	(520) 465-8650
Telephone	Telephone
( )	( )
Fax	Fax

4. APPLICATION FEE: $86. (NOIs require an **$86** fee which must accompany this notice or it cannot be processed by the Division).

5.

LOCATION INFORMATION:

County:

Principal Meridian (check one):

☐ 6th (Colorado) ☑ 10th (New Mexico) ☐ Ute

Section (write number) 2, 10, 11 TOWNSHIP 47 N ☑ S ☐

RANGE 17 E ☐ W ☑

QUARTER SECTION (check one):

NE ■ NW ■ SE ■ SW ■

QUARTER/QUARTER SECTION (check one):

NE ■ NW ■ SE ■ SW ■

GENERAL DESCRIPTION: (the number of miles and direction to the nearest town and the approximate elevation):

The site is approximately 13 miles northwest of Naturita, CO; Average 5,700 amsl

NOTE: Supply longitude and latitude or UTM coordinates if lands have not been surveyed or as supplemental information to this NOI. GPS measurements will be acceptable for this purpose:

Lat: See Attachments 2 & 3 X: 698900E NAD83

Long: for drill site locations Y: 4246400N NAD83

6. LAND OWNERSHIP:

- [ ] Private
- [x] Public Domain (BLM)
- [ ] National Forest (USFS)
- [ ] State
- [ ] State Sovereign Lands
- [ ] Other (please describe) _____

If prospecting is located on BLM or USFS land the remaining section must be completed, otherwise go to section II Maps & Drawings

7. PROSPECTING ON BUREAU OF LAND MANAGEMENT (BLM) LAND AND U.S. FOREST SERVICE (USFS) LAND

The Division and the BLM/USFS have entered into cooperative agreements that eliminate the need for a prospector to post a financial warranty with each agency and allow them to coordinate the review of the NOI in order to minimize administrative processing time and effort.

A. CLAIMANT:

Name: Sunrise Minerals Inc

Address: 4691 Luna Circle

City, State, Zip: Moab, UT 84532

Telephone: (435) 260-1787

Fax: ( )

B. SITE/CLAIM INFORMATION:
List names, serial numbers and provide legal description to nearest quarter-quarter section of all sites or claims (attach additional page, if necessary).

NAME	SERIAL NUMBER	LEGAL DESCRIPTION
See Attachment 4.	See Attachment 4.	See Figure 2.

C. LOCATION MAP: Attach a USGS 7.5 minute quad, or similar map of adequate scale, which locates the prospecting site(s).

D. Are prospect sites (e.g., drill holes, trench locations, etc.) staked on the ground? Yes ☑ No ☐

E. Specify the Land Management Agency, Address and Telephone Number:

Agency: BLM Uncompahgre Field Office

Address: 2465 S. Townsend Ave

City, State, Zip: Montrose, CO 81401

Telephone: (970) 240-5300

F. The prospector is required to document that the NOI has been sent to the BLM or the USFS. Processing of the NOI will not begin until the prospector has submitted evidence acceptable to the Division that the NOI was sent to the BLM or USFS. Check one:

☑ Evidence of notification is attached to this NOI for BLM Land See Attachment 5

☐ Evidence of notification is attached to this NOI for USFS Land.

☐ Other proof of notice is attached to this NOI

II. MAPS & DRAWINGS

An accurate topographic base map showing the location of the proposed project must be submitted with this notice. The prospector may submit a U.S.G.S. 7.5 minute quadrangle, or similar map of adequate scale that:

1. Identifies the proposed prospecting site(s) or activity areas involving surface disturbance. Activity areas include all drill holes, mud pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads, and

2. Includes sufficient detail to identify and locate known prospecting features and facilities that may be affected and those that are not anticipated to be affected. This includes the location of all drill holes, mud pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads. Color photographs, adequately labeled (including date, orientation and location), of the prospecting site may be used to fulfill this requirement if included with the NOI submittal.

III. PROJECT DESCRIPTION

1. Mineral(s) and/or Resource(s) being Investigated: Vanadium and Uranium

2. Estimated dates of commencement and completion:
   Commencement: 05 / 01 / 2024
   Completion 05 / 01 / 2029

3. Amount of material (specify units) to be extracted, moved or proposed to be moved: NA Units _____

Identify the type or method of prospecting proposed and quantity (place an "X")

☐ Cuts	☐ Pits	☐ Trenches
☐ Shafts	☐ Tunnels	☐ Adits
☐ Declines	☒ Air Drilling	☒ Fluid Drilling
☐ Drilling and Blasting		

5. Describe proposed surface excavation or other land disturbance, including roads, pits, trenches, waste piles, drill pads and collar areas of underground workings, ponds, etc.

Disturbance will occur on, and include existing access, authorized improved exploration roads, existing and proposed exploration roads, and 18 drill pads as shown on figures 3 and 4. The improved existing roads and laydown yard authorized in the original NOI will continue to be utilized for access. Approximately 1,940 feet of existing access road will require improvements to allow safe travel and approximately 3,920 feet of road will need to be constructed. Roads will consist of single lane travel with disturbance widths of 14 feet. Existing roads are 12 feet wide. The drill sites will be approximately 75 feet long by 50 feet wide. The total length for drill pads is 1,350 feet. A sump (mud pit), eight feet wide by ten feet long and four feet deep will be constructed within each drill pad. The disturbance area (3.81 acres) is calculated in the attached REX Road and Pad disturbance worksheet and reclamation cost estimate as Attachment 6.

6. Proposed Disturbance (approximate) Describe the proposed drilling to be conducted, including anticipated number of holes, diameter, depth, location, etc. Submit additional pages if necessary:

A. Drill Pads:

Quantity 18 Average Width (ft) 50 Average Length (ft) 75

B. Drill Holes: Depth 90 to 400 feet, averaging 166 feet deep.

Quantity 18 Depth (ft) 166 avg Diameter (in) 6

C. Mud Pits

Quantity 18 Average Width (ft) 8 Average Length (ft) 10 Average Depth (ft) 4

D. Described proposed underground work, including reopening of old workings, advancement of adits or shafts, trenches, pits, cuts, rock dumps, or other types of disturbance, describe type, quantity and general dimensions:

No underground work is proposed with this amendment to NOI P-2022-019.

E. Other Disturbances (please describe)

Existing roads and trails will be utilized and improved as necessary to allow for safe access. Improvements will include tree trimming/removal, blading, adding fill, and stabilizing washout areas with fill material.

F. Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.

Chemicals and fuels used on-site may include diesel fuel, gasoline, hydraulic fluid, and lubricating grease. Approximately 300 gallons of diesel fuel and gasoline will be stored in fuel delivery systems on drill rigs and support vehicles. Approximately 50 pounds of lubricating grease and 35 gallons of hydraulic fluid will be stored on each drill rig and transported by drill trucks.

G. New Roads:

	Length (ft):	3,920	Width (ft):	14
Significantly Upgraded Roads	Length (ft):	1,940	Width (ft):	12

Are culverts or other crossings proposed? If so, please describe:

None are proposed in the amended NOI.

H. Total project area to be disturbed (acres) 3.82 acres proposed + 0.97 ac authorized; Total 4.79 ac

I. Describe the equipment to be used for the prospecting operations:

Exploration drilling and personnel will access the site in pickup trucks. A reverse circulation (RC) drill will be utilized along with support vehicles, such as a pipe truck or trailer, water truck, forklift, and portable light plant/generator. It is anticipated that only one drill rig will be on site at any one time. A bulldozer or excavator and a backhoe may be utilized for road improvement and reclamation.

J. Describe and locate any structures to be constructed (i.e. stockpiles, ponds, impoundments):

No structures are planned to be constructed.

K. Describe anticipated relationship to surface water and groundwater (proximity to streams, penetration of ground water aquifers):

Prospecting will be conducted in a manner to minimize soil erosion. Equipment will not be operated when ground conditions are such that excessive resource damage or increased sediment transport will occur. Sediment control measures may include, but not be limited to, fabric, certified weed-free straw bales, filter fences, filter berms, mud sumps, and down-gradient drainage channels to prevent degredation to the environment. Groundwater is estimated to be 100 feet below the surface and will be managed with appropriate drill hole sealants if encountered.

IV. OPERATION AND RECLAMATION MEASURES:

1. The Board suggests that a photographic record of the pre-prospecting and post-prospecting conditions be kept by the prospector. These photos should be taken from the same location and by the same method to clearly show the pre-prospecting condition of the land and the reclamation efforts. Upon completion of reclamation and request for bond or surety release, the Board may consider the photos as evidence of adequate reclamation, and thus, be able to act more quickly on the request for release.

2. Provide a description of the native vegetation of the area to be disturbed, including tree, shrub, and grass communities of the area. Color photographs, sufficient to adequately represent the ecology of the site and adequately labeled (including date, orientation and location), may be used in lieu of a written description. Based on the quality of the photographs, the Division may require additional detail.

The prospecting area falls within the Colorado Plateau Pinyon-Juniper Shrubland ecological system. Native vegetation includes pinyon and juniper trees, shrubs (sagebrush, rabbit brush, black brush), and sparse to moderately dense herbaceous layers. See Attachment 7 for photos.

3. Describe the estimated topsoil depth and how topsoil will be salvaged, stockpiled and redistributed for the re-establishment of vegetation. Specify approximate topsoil redistribution depth:

Topsoil is estimated to be minimal. Topsoil present in the areas of the proposed road, and pad surfaces will be stripped and stored along the edges of disturbance to allow for redistribution. Width of disturbance for proposed roads will be 14 feet to allow for a topsoil berm along the road. When the topsoil is redistributed over the surfaces, the depth of topsoil will be similar to existing conditions prior to prospecting.

4. Describe how drill holes will be plugged (refer to Rule 5.4 of the Rules for required abandonment procedures):

Drill holes will be plugged in accordance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board. Each drill hold will be permanently plugged, sealed, or capped before the rig moves from each drill site. Drill holes with artesian flow will be plugged with neat cement grout or similar material. A final report will be submitted no later than sixty (60) days after the abandonment of drill holes with artesian flow at the surface or no later than twelve (12) months after abandonment of any other drill holes. The report will contain information as stated in Rule 5.7. Artesian flow is not anticipated in the proposed drill holes.

5. Describe how portals, adits, shafts, ponds, excavations, or other disturbances will be reclaimed (refer to Rule 3 and Rule 5 for specific reclamation performance standards). You may wish to contact the Division for closure specifications.

Mud pits located within drill pads will be backfilled and the surface reclaimed along with the drill pad.

6. Describe how roads will be reclaimed or returned to their pre-prospecting (or better) condition:

The road surfaces and drill pads will be scarified and left in rough condition to hold seed and optimize germination. Roads will be regraded to direct run-off to natural channels down gradient. Improved roads will be reclaimed to existing width of disturbance prior to prospecting.

7. List the seed mixture to be used in the re-establishment of vegetation. See the attached seed mixture calculation to obtain PLS/acre. For assistance with formulating seed mixtures and rates, contact the local NRCS if on private land, BLM/USFS if on public land or State Land Board if on state land.
   A. Plant name and seeding rate:

Plant Name	Seeding Rate (PLS/Acre)
See Attachment 8 for the seed mix provided by the BLM.	

B. Describe the method for seed bed preparation, and application method for grass/forb seeding:

The final surface of backfilled sumps and scarified travel lanes will have stockpiled growth media, if present, redistributed over them and left in rough condition to hold seed and optimize germination. Reclaimed areas will be hand-broadcast seeded with the BLM approved seed mix. Seeding will be completed at the appropriate time of year as advised by BLM staff. Final revegetation will be consistent with post-exploration land uses.

V. TERMS AND CONDITIONS FOR PROSPECTING OPERATIONS:

1. Reclamation measures shall be fulfilled in a timely manner and completed within five (5) years of completion of prospecting activities.

2. The prospecting operations described in this Notice will be conducted in such a manner as to minimize surface disturbances. In addition to the measures required in Rule 5, precautions to be taken include:

   A. Confinement of operations to areas near existing roads or trails, where practicable. Existing roads which are to remain as permanent roads after prospecting activities are completed shall be left in a condition equal to or better than the pre-prospecting condition;

   B. Drilling shall be conducted in such a way as to prevent cuttings and fluids from directly entering any dry or flowing stream channel. Drill cuttings must be spread to a depth no greater than one-half (1/2) inch or buried in an approved disposal pit;

   C. Proper and timely abandonment of drill holes upon completion of drilling;

   D. Reclamation of affected lands upon completion of operations or phases of an operation;,

   E. Backfilling and revegetating any pits to blend in with the surrounding land surface;

F. Safeguarding mine entries, trenches and excavations from unauthorized entry at all times;

G. Disposal of any trash, scrap metal, wood, machinery, and buildings;

H. Control of noxious weeds within the area affected by the prospector

3. The prospecting operations shall be conducted in such a manner as to comply with all applicable local, state and federal laws and regulations including applicable state and federal air and water quality laws and regulations.

4. The prospecting operations shall be conducted so as to minimize adverse effects upon wildlife to include covering of open drill holes until properly plugged.

5. During the prospecting operations, the operator will perform the necessary stabilization and reclamation work to ensure those areas affected by prospecting activities are erosionally and geotechnically stable.

6. All prospecting operations shall be in compliance with the Colorado Mined Land Reclamation Act, as amended (34-32-101 et seq. C.R.S.), and all rules and regulations currently in effect or promulgated pursuant thereto. See 2 CCR 407-1, Mined Land Reclamation Board Hardrock /Metal Mining Rules.

VI. ADDITIONAL TERMS AND CONDITIONS FOR PROSPECTING ON BLM/USFS LANDS

1. The prospector will supply a copy of this NOI to the appropriate BLM and/or USFS office.
2. The prospector authorizes the MLRB to discuss the information in this Notice of Intent with the BLM and/or USFS.

3. If on BLM land, the prospector will complete reclamation to the standards described in 43 CFR 3809.1-3 (d) and implement reasonable measures to prevent unnecessary or undue degradation of lands during operations.

VII. FINANCIAL WARRANTY

A financial warranty must be provided for the cost of reclamation of the disturbance described in this Notice. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Financial Warranty." **The financial warranty must be submitted and approved by the Division prior to entry upon lands for the purpose of prospecting.**

A One-Site Prospecting Financial Warranty is usually filed by individuals or companies where prospecting activities are limited to a single area. It must be filed in the amount of $2,000 per acre for land to be disturbed, or such other amount as determined by the Division, based on the projected costs of reclamation. A Statewide Financial Warranty is usually filed by companies with multiple prospecting sites. It must be filed in an amount equal to the estimated cost of reclamation per acre of affected land for all anticipated sites statewide. (You may increase the statewide bond at any time in order to cover additional or expanded prospecting activities.) See Attachment 9 for reclamation cost estimate.

VIII. SIGNATURE REQUIREMENT

Please place your initials on the line provided:

_____ I hereby verify that the foregoing information is true and accurate and commit to the reclamation of the aforementioned prospecting site as required by the Colorado Mined Reclamation Act and the rules as specified in the Hard Rock/Metal Mining Rules and Regulations and this NOI form.

_____ I have enclosed the required permit fee.

_____ I authorize the Division to contact and copy the BLM and/or USFS on any correspondence related to the prospecting operation, if the prospecting operation is located on federal public land.

_____ I have also enclosed the appropriate reclamation surety amount or will post an amount as determined by the office, based on the projected costs of reclamation.

_____ I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Reclamation, Mining and Safety.

_____ I accept and agree to comply with the foregoing terms and conditions and with all of the provisions of Rules 3 and 5, and C.R.S. 34-32-101.

_____ I hereby certify that concurrent with submittal of this NOI to the Division, I have sent notice to the Boards of County Commissioners in the counties where the proposed activities will occur. This notice also indicated that non-confidential information regarding the proposed activities will be available for review at the Division's website. See Attachment 10.

This form has been approved by the Mined Land Reclamation Board pursuant to section 34-32-113, C.R.S., of the Mined Land Reclamation Act. Any alteration or modification of this form shall result in voiding any NOI issued on the altered or modified form and subject the operator to cease and desist orders and civil penalties for operating without a NOI pursuant to section 34-32-123, C.R.S.

I, the undersigned, being the NOI holder or the person authorized to sign on behalf of the NOI holder, declare that the information given in this NOI form is true and correct.

SIGNATURES MUST BE IN BLUE INK

Signed and dated this _____ **day of** _____, _____
(date) **(month)** **(year)**

Signature of NOI holder or person authorized to sign: _____

Name (typed or printed): Rodney A Blakestad

Title/Position: Consulting Geologist

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30 Aug 2017

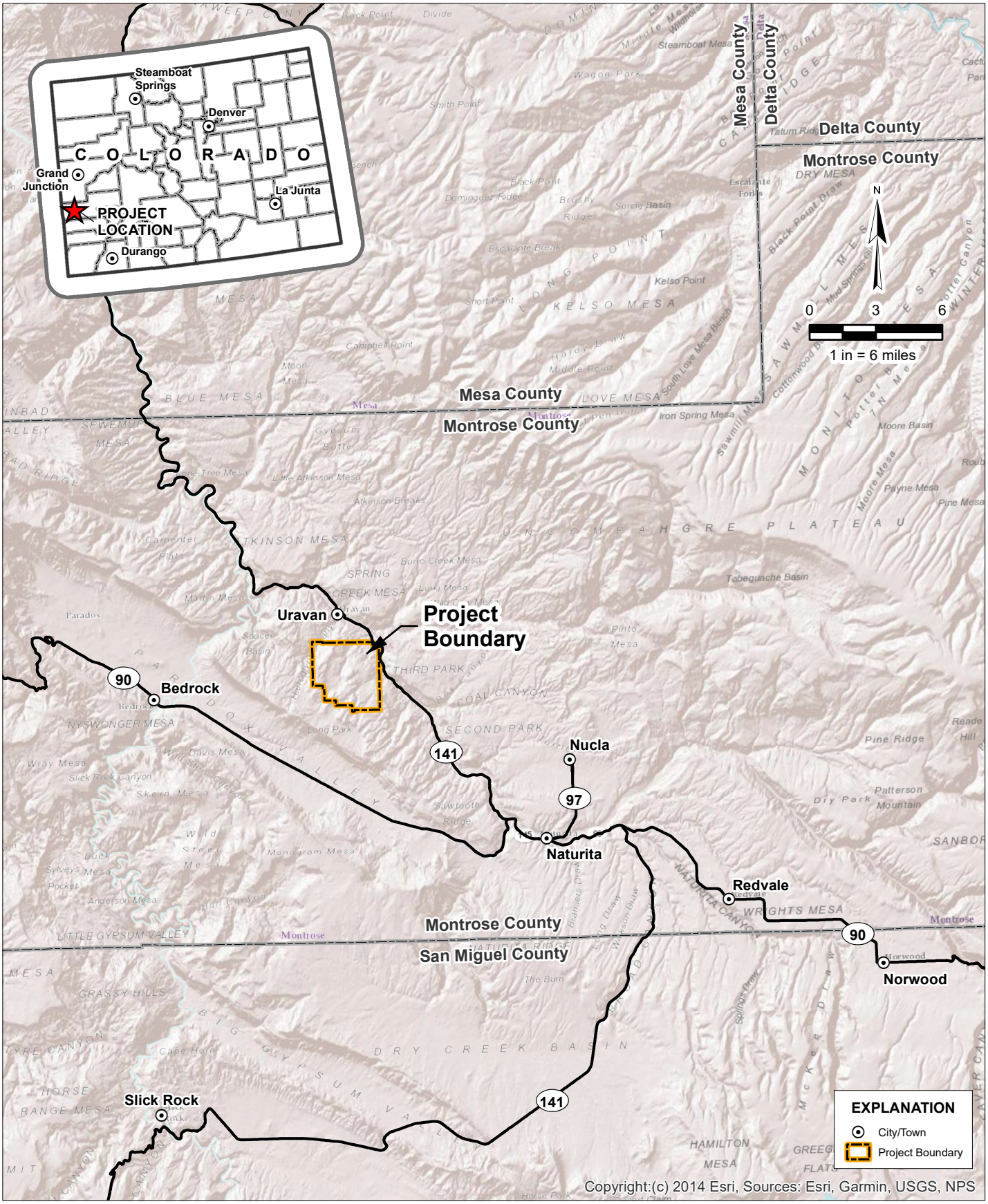
Attachment 2 Figures

Figure 1 Site Location Map

Figure 2 Claims Location Map

Figure 3 Proposed Prospecting (topographic)

Figure 4 Proposed Prospecting (aerial image)



DESIGN: -	REVIEWED: CA	PREPARED BY: srk consulting	DRAWING TITLE: AMENDMENT TO NOI P-2022-019 BLM CASE FILE NO. COC80843 SITE LOCATION MAP
DRAWN: GK	APPROVED: CA		
COORDINATE SYSTEM: NAD 1983 UTM Zone 12N		PREPARED FOR: REX URANIUM PROJECT SUNRISE MINERALS, INC.	DATE: 5/4/2023 REVISION: A DRAWING NO.: FIGURE 1
IF THE ABOVE BAR DOES NOT MEASURE 1 INCH, THE DRAWING SCALE IS ALTERED			SRK PROJECT NO.: USPR001303.2000

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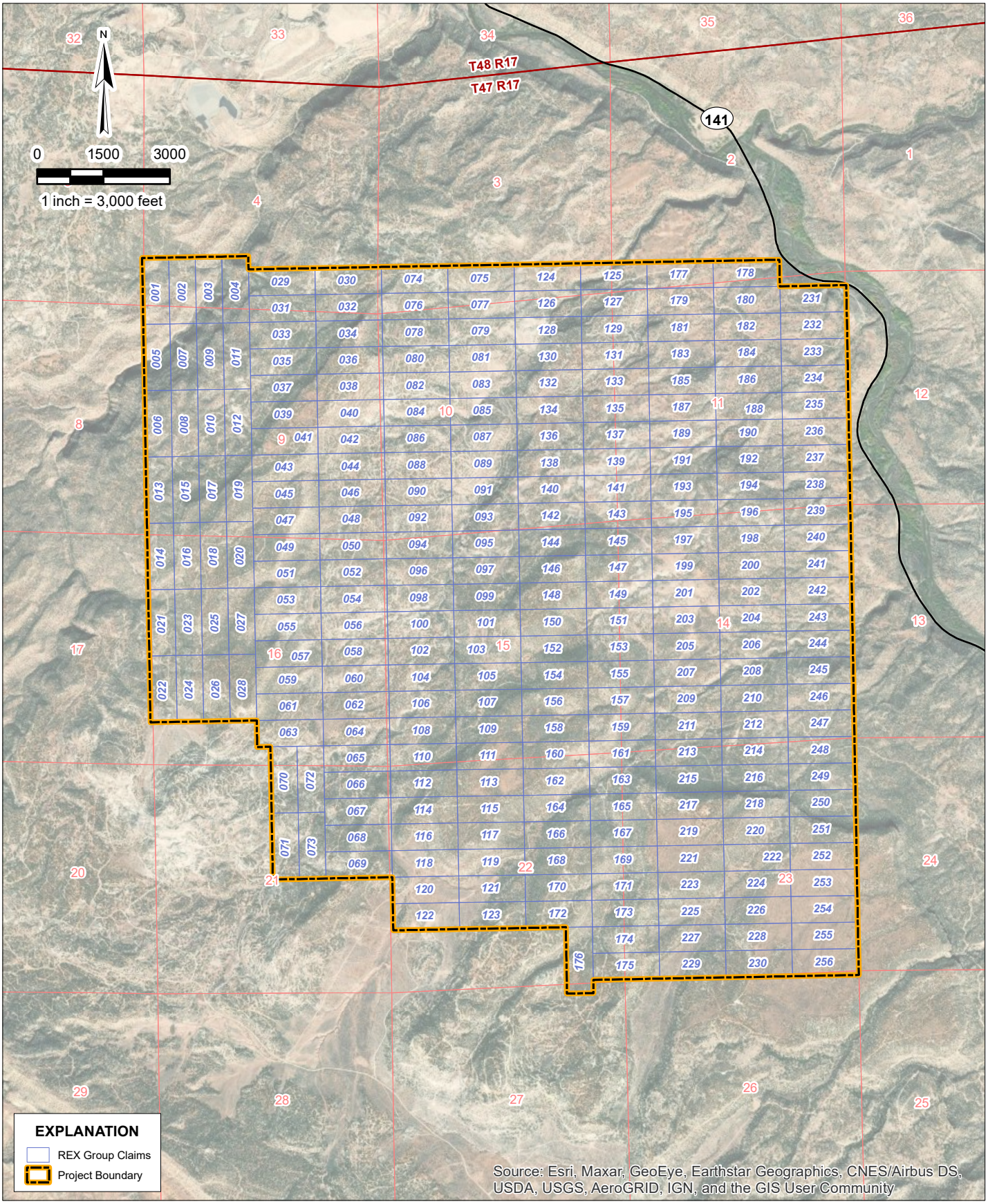

DESIGN: -	REVIEWED: CA	PREPARED BY: srk consulting	DRAWING TITLE: AMENDMENT TO NOI P-2022-019 BLM CASE FILE NO. COC80843 CLAIMS LOCATION MAP
DRAWN: GK	APPROVED: CA		
COORDINATE SYSTEM: NAD 1983 UTM Zone 12N		PREPARED FOR: REX URANIUM PROJECT SUNRISE MINERALS, INC.	DATE: 5/4/2023 / REVISION: A / DRAWING NO.: FIGURE 2
IF THE ABOVE BAR DOES NOT MEASURE 1 INCH, THE DRAWING SCALE IS ALTERED			SRK PROJECT NO.: USPR001303.2000

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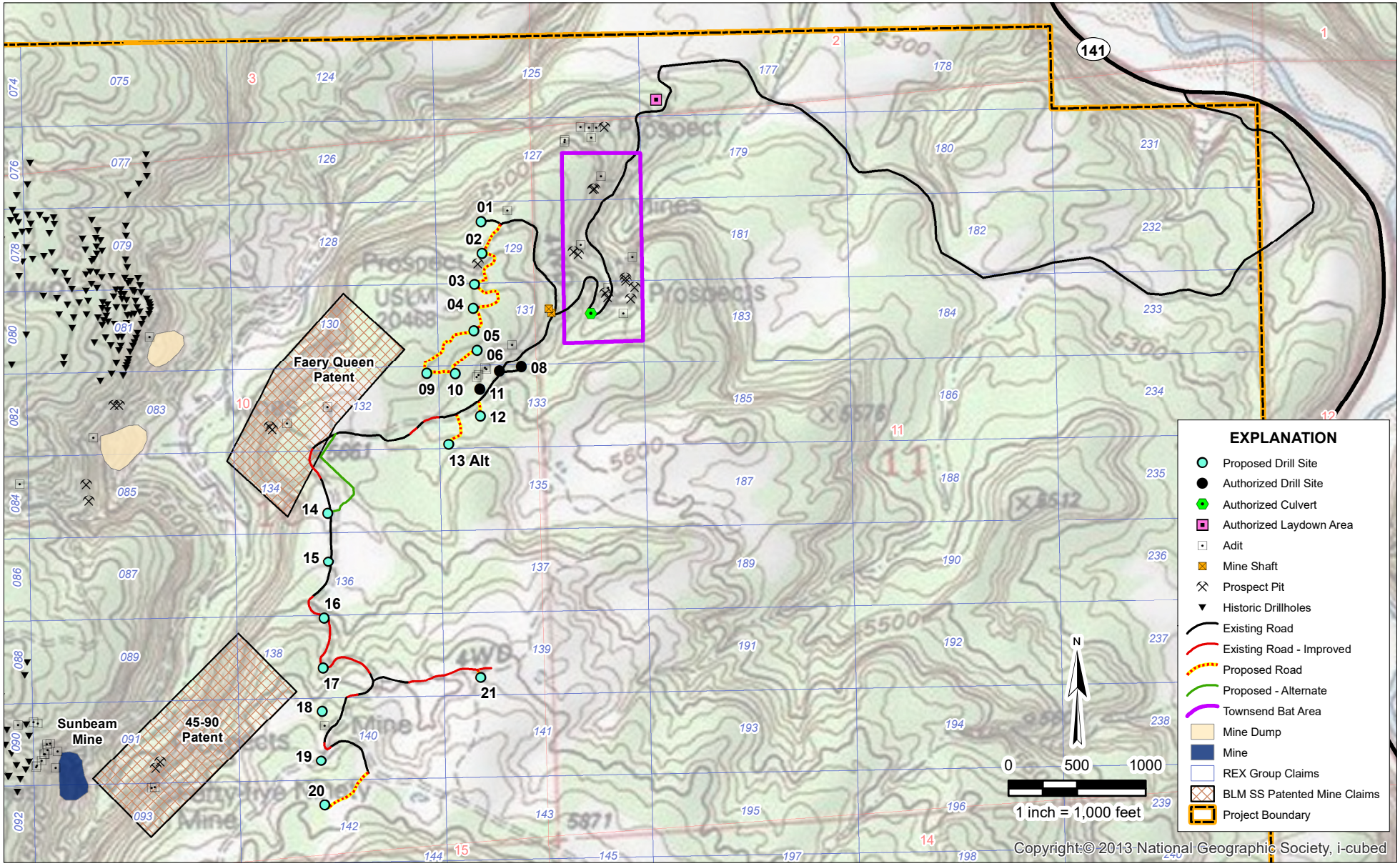

DESIGN: -	REVIEWED: CA	PREPARED BY: srk consulting	DRAWING TITLE: AMENDMENT TO NOI P-2022-019 BLM CASE FILE NO. COC80843 PROPOSED PROSPECTING
DRAWN: GK	APPROVED: CA		
COORDINATE SYSTEM: NAD 1983 UTM Zone 12N		PREPARED FOR: REX URANIUM PROJECT SUNRISE MINERALS, INC.	DATE: 5/4/2023 REVISION: A
IF THE ABOVE BAR DOES NOT MEASURE 1 INCH, THE DRAWING SCALE IS ALTERED			SRK PROJECT NO.: USPR001303.2000
			DRAWING NO.: FIGURE 3

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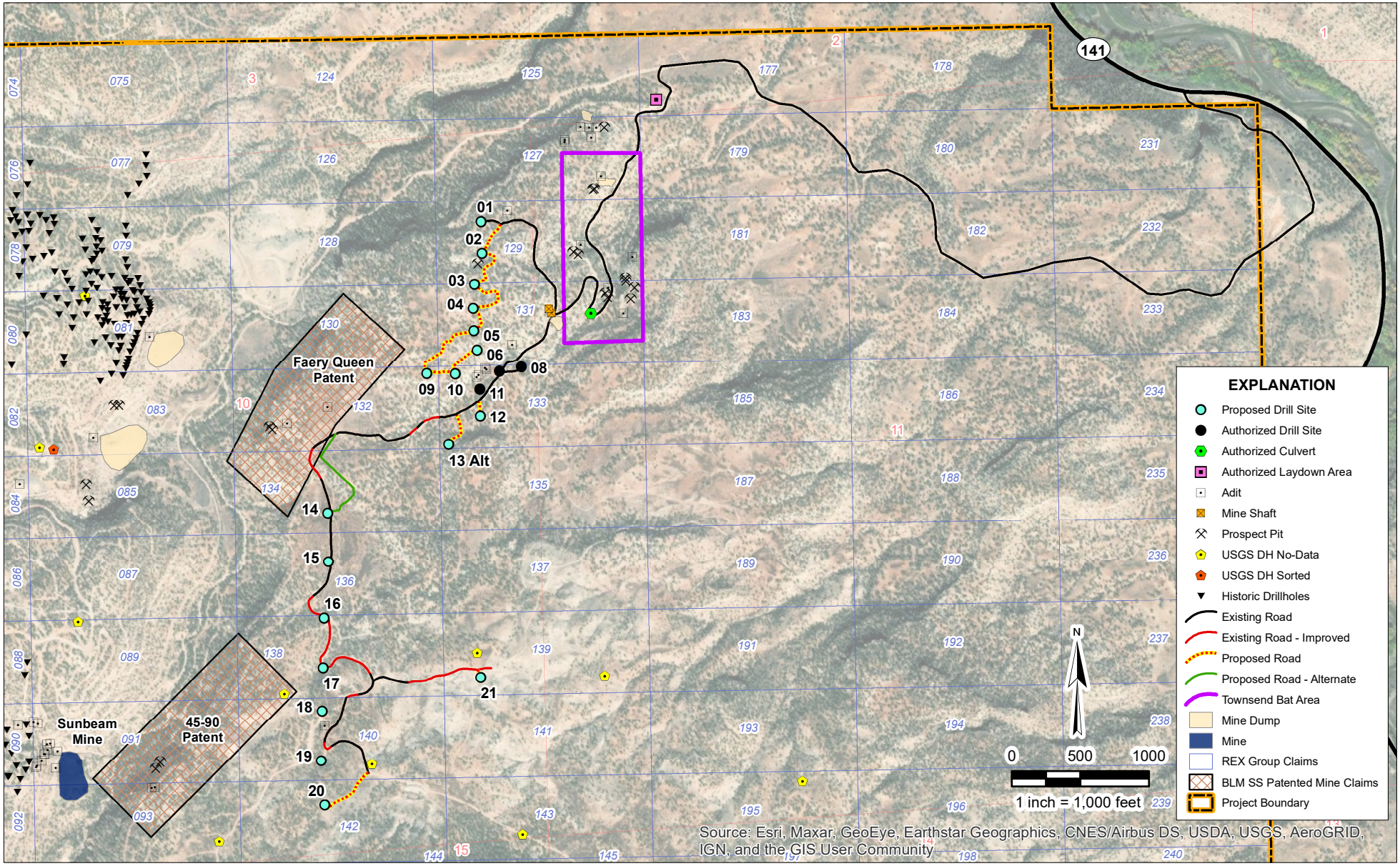

DESIGN: -	REVIEWED: CA	PREPARED BY: srk consulting	DRAWING TITLE: AMENDMENT TO NOI P-2022-019 BLM CASE FILE NO. COC80843 PROPOSED PROSPECTING
DRAWN: GK	APPROVED: CA		
COORDINATE SYSTEM: NAD 1983 UTM Zone 12N		PREPARED FOR: REX URANIUM PROJECT SUNRISE MINERALS, INC.	DATE: 5/4/2023 REVISION: A
IF THE ABOVE BAR DOES NOT MEASURE 1 INCH, THE DRAWING SCALE IS ALTERED			SRK PROJECT NO.: USPR001303.2000
			DRAWING NO.: FIGURE 4

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Attachment 3 Drill Site Coordinates

Rex Project

Sunrise Minerals, Inc.
Montrose County, Colorado
Drill Site Coordinates

Drill Site	Latitude	Longitude	NAD83 Y	NAD83 X
REX Site #1	38.34608	-108.724013	4246665	698896
REX Site #2	38.34544	-108.724010	4246594	698898
REX Site #3	38.34483	-108.724224	4246526	698881
REX Site #4	38.34436	-108.724273	4246473	698878
REX Site #5	38.34390	-108.724264	4246423	698880
REX Site #6	38.34352	-108.724196	4246380	698887
REX Site #7 Authorized	38.34308	-108.723649	4246333	698936
REX Site #8 Authorized	38.34315	-108.723087	4246342	698985
REX Site #9	38.34307	-108.725492	4246328	698775
REX Site #10	38.34305	-108.724772	4246327	698838
REX Site #11 Authorized	38.34274	-108.724152	4246294	698893
REX Site #12	38.34219	-108.724158	4246233	698894
REX Site #13 Alt	38.34164	-108.724976	4246170	698824
REX Site #14	38.34033	-108.728095	4246018	698555
REX Site #15	38.33936	-108.728102	4245910	698557
REX Site #16	38.33822	-108.728252	4245784	698547
REX Site #17	38.33723	-108.728306	4245674	698545
REX site #18	38.33637	-108.728356	4245578	698543
REX Site #19	38.33538	-108.728409	4245468	698541
REX Site #20	38.33449	-108.728346	4245369	698549
REX Site #21	38.33697	-108.724310	4245653	698895
Laydown Area Authorized	38.34842	-108.721949	4246936	699284

Attachment 4 List of Claims

Sunrise Minerals, Inc. Lode Mining Claims

List of Claims
Sunrise Minerals, Inc. Lode Mining Claims
Montrose County, Colorado
Number of Claims: 256

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12/15/2020	SUNRISE MINERALS INC	REX-001	CO105227373	T47N R17W	4	SW
					9	NW
2/25/2021	SUNRISE MINERALS INC	REX-002	CO105227374	T47N R17W	4	SW
					9	NW
12/15/2020	SUNRISE MINERALS INC	REX-003	CO105227375	T47N R17W	4	SW
					9	NW
12/15/2020	SUNRISE MINERALS INC	REX-004	CO105227376	T47N R17W	4	SW
					9	NW
12/15/2020	SUNRISE MINERALS INC	REX-005	CO105227377	T47N R17W	9	NW
12/15/2020	SUNRISE MINERALS INC	REX-006	CO105227378	T47N R17W	9	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-007	CO105227379	T47N R17W	9	NW
12/15/2020	SUNRISE MINERALS INC	REX-008	CO105227380	T47N R17W	9	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-009	CO105227381	T47N R17W	9	NW
12/15/2020	SUNRISE MINERALS INC	REX-010	CO105227382	T47N R17W	9	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-011	CO105227383	T47N R17W	9	NW
12/15/2020	SUNRISE MINERALS INC	REX-012	CO105227384	T47N R17W	9	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-013	CO105227385	T47N R17W	9	SW
12/15/2020	SUNRISE MINERALS INC	REX-014	CO105227386	T47N R17W	9	SW
					16	NW
12/15/2020	SUNRISE MINERALS INC	REX-015	CO105227387	T47N R17W	9	SW
12/15/2020	SUNRISE MINERALS INC	REX-016	CO105227388	T47N R17W	9	SW
					16	NW
12/15/2020	SUNRISE MINERALS INC	REX-017	CO105227389	T47N R17W	9	SW
12/15/2020	SUNRISE MINERALS INC	REX-018	CO105227390	T47N R17W	9	SW
					16	NW
12/15/2020	SUNRISE MINERALS INC	REX-019	CO105227391	T47N R17W	9	SW
12/15/2020	SUNRISE MINERALS INC	REX-020	CO105227392	T47N R17W	9	SW
					16	NW
12/15/2020	SUNRISE MINERALS INC	REX-021	CO105227393	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-022	CO105227394	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-023	CO105227395	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-024	CO105227396	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-025	CO105227397	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-026	CO105227398	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-027	CO105227399	T47N R17W	16	SE
12/15/2020	SUNRISE MINERALS INC	REX-028	CO105227400	T47N R17W	16	SW
12/15/2020	SUNRISE MINERALS INC	REX-029	CO105227401	T47N R17W	4	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-030	CO105227402	T47N R17W	4	SE
					3	SW
12/15/2020	SUNRISE MINERALS INC	REX-031	CO105227403	T47N R17W	4	SE
						SW
					9	NW
						NE
12/15/2020	SUNRISE MINERALS INC	REX-032	CO105227404	T47N R17W	4	SE
					3	SW
					3	NW
					4	NE
12/15/2020	SUNRISE MINERALS INC	REX-033	CO105227405	T47N R17W	9	NW
						NE
12/15/2020	SUNRISE MINERALS INC	REX-034	CO105227406	T47N R17W	9	NE
					10	NW
12/15/2020	SUNRISE MINERALS INC	REX-035	CO105227407	T47N R17W	9	NE
						NW
12/15/2020	SUNRISE MINERALS INC	REX-036	CO105227408	T47N R17W	9	NE
					10	NW
12/15/2020	SUNRISE MINERALS INC	REX-037	CO105227409	T47N R17W	9	NE
						NW

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12/15/2020	SUNRISE MINERALS INC	REX-038	CO105227410	T47N R17W	9	NE
					10	NW
12/15/2020	SUNRISE MINERALS INC	REX-039	CO105227411	T47N R17W	9	NW
						NE
12/15/2020	SUNRISE MINERALS INC	REX-040	CO105227412	T47N R17W	9	NE
					10	NW
12/15/2020	SUNRISE MINERALS INC	REX-041	CO105227413	T47N R17W	9	NW
						NE
						SE
						SW
12/15/2020	SUNRISE MINERALS INC	REX-042	CO105227414	T47N R17W	9	NE
						SE
					10	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-043	CO105227415	T47N R17W	9	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-044	CO105227416	T47N R17W	9	SE
					10	SW
12/15/2020	SUNRISE MINERALS INC	REX-045	CO105227417	T47N R17W	9	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-046	CO105227418	T47N R17W	9	SW
					10	SE
12/15/2020	SUNRISE MINERALS INC	REX-047	CO105227419	T47N R17W	9	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-048	CO105227420	T47N R17W	9	SE
					10	SW
12/15/2020	SUNRISE MINERALS INC	REX-049	CO105227421	T47N R17W	9	SW
						SE
					16	NE
						NW
12/15/2020	SUNRISE MINERALS INC	REX-050	CO105227422	T47N R17W	9	SE
					10	SW
					15	NW
					16	NE
12/15/2020	SUNRISE MINERALS INC	REX-051	CO105227423	T47N R17W	16	NW
						NE
12/15/2020	SUNRISE MINERALS INC	REX-052	CO105227424	T47N R17W	16	NW
					15	NE
12/15/2020	SUNRISE MINERALS INC	REX-053	CO105227425	T47N R17W	16	NW
						NE
12/15/2020	SUNRISE MINERALS INC	REX-054	CO105227426	T47N R17W	16	NE
					15	NW
12/15/2020	SUNRISE MINERALS INC	REX-055	CO105227427	T47N R17W	16	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-056	CO105227428	T47N R17W	16	NE
					15	NW
12/15/2020	SUNRISE MINERALS INC	REX-057	CO105227429	T47N R17W	16	NW
						NE
						SE
						SW
12/15/2020	SUNRISE MINERALS INC	REX-058	CO105227430	T47N R17W	16	NE
						SE
					15	NW
						SW
12/15/2020	SUNRISE MINERALS INC	REX-059	CO105227431	T47N R17W	16	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-060	CO105227432	T47N R17W	16	SE
					15	SW
12/15/2020	SUNRISE MINERALS INC	REX-061	CO105227433	T47N R17W	16	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-062	CO105227434	T47N R17W	16	SE
					15	SW

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12/15/2020	SUNRISE MINERALS INC	REX-063	CO105227435	T47N R17W	16	SW
						SE
12/15/2020	SUNRISE MINERALS INC	REX-064	CO105227436	T47N R17W	16	SE
					15	SW
12/15/2020	SUNRISE MINERALS INC	REX-065	CO105227437	T47N R17W	16	SE
					15	DW
					2	NW
					21	NE
12/15/2020	SUNRISE MINERALS INC	REX-066	CO105227438	T47N R17W	21	NE
					22	NW
12/15/2020	SUNRISE MINERALS INC	REX-067	CO105227439	T47N R17W	21	NE
					22	NW
12/15/2020	SUNRISE MINERALS INC	REX-068	CO105227440	T47N R17W	21	NE
					22	NW
12/15/2020	SUNRISE MINERALS INC	REX-069	CO105227441	T47N R17W	21	NE
					22	NW
12/15/2020	SUNRISE MINERALS INC	REX-070	CO105227442	T47N R17W	16	SW
						SE
					21	NE
12/15/2020	SUNRISE MINERALS INC	REX-071	CO105227443	T47N R17W	21	NE
12/15/2020	SUNRISE MINERALS INC	REX-072	CO105227444	T47N R17W	16	SE
					21	NE
12/15/2020	SUNRISE MINERALS INC	REX-073	CO105227445	T47N R17W	21	NE
12/16/2020	SUNRISE MINERALS INC	REX-074	CO105227446	T47N R17W	3	SW
12/15/2020	SUNRISE MINERALS INC	REX-075	CO105227447	T47N R17W	3	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-076	CO105227448	T47N R17W	3	SW
					10	NW
12/16/2020	SUNRISE MINERALS INC	REX-077	CO105227449	T47N R17W	3	SW
						SE
					10	NE
						NW
12/16/2020	SUNRISE MINERALS INC	REX-078	CO105227450	T47N R17W	10	NW
12/16/2020	SUNRISE MINERALS INC	REX-079	CO105227451	T47N R17W	10	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-080	CO105227452	T47N R17W	10	NW
12/16/2020	SUNRISE MINERALS INC	REX-081	CO105227453	T47N R17W	10	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-082	CO105227454	T47N R17W	10	NW
12/16/2020	SUNRISE MINERALS INC	REX-083	CO105227455	T47N R17W	10	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-084	CO105227456	T47N R17W	10	NW
						SW
12/16/2020	SUNRISE MINERALS INC	REX-085	CO105227457	T47N R17W	10	NW
						NE
						SE
						SW
12/16/2020	SUNRISE MINERALS INC	REX-086	CO105227458	T47N R17W	10	SW
12/16/2020	SUNRISE MINERALS INC	REX-087	CO105227459	T47N R17W	10	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-088	CO105227460	T47N R17W	10	SW
12/16/2020	SUNRISE MINERALS INC	REX-089	CO105227461	T47N R17W	10	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-090	CO105227462	T47N R17W	10	SW
12/16/2020	SUNRISE MINERALS INC	REX-091	CO105227463	T47N R17W	10	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-092	CO105227464	T47N R17W	10	SW
12/16/2020	SUNRISE MINERALS INC	REX-093	CO105227465	T47N R17W	10	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-094	CO105227466	T47N R17W	10	SW
					15	NW

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12/16/2020	SUNRISE MINERALS INC	REX-095	CO105227467	T47N R17W	10	SW
						SE
					15	NE
						NW
12/16/2020	SUNRISE MINERALS INC	REX-096	CO105227468	T47N R17W	15	NW
12/16/2020	SUNRISE MINERALS INC	REX-097	CO105227469	T47N R17W	15	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-098	CO105227470	T47N R17W	15	NW
12/16/2020	SUNRISE MINERALS INC	REX-099	CO105227471	T47N R17W	15	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-100	CO105227472	T47N R17W	15	NW
12/16/2020	SUNRISE MINERALS INC	REX-101	CO105227473	T47N R17W	15	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-102	CO105227474	T47N R17W	15	NW
						SW
12/16/2020	SUNRISE MINERALS INC	REX-103	CO105227475	T47N R17W	15	NW
						NE
						SE
						SW
12/16/2020	SUNRISE MINERALS INC	REX-104	CO105227476	T47N R17W	15	SW
12/16/2020	SUNRISE MINERALS INC	REX-105	CO105227477	T47N R17W	15	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-106	CO105227478	T47N R17W	15	SW
12/16/2020	SUNRISE MINERALS INC	REX-107	CO105227479	T47N R17W	15	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-108	CO105227480	T47N R17W	15	SW
12/16/2020	SUNRISE MINERALS INC	REX-109	CO105227481	T47N R17W	15	SW
						SE
12/20/2020	SUNRISE MINERALS INC	REX-110	CO105227482	T47N R17W	15	SW
					22	NW
12/20/2020	SUNRISE MINERALS INC	REX-111	CO105227483	T47N R17W	15	SW
						SE
					22	NE
						NW
12/20/2020	SUNRISE MINERALS INC	REX-112	CO105227484	T47N R17W	22	NW
12/20/2020	SUNRISE MINERALS INC	REX-113	CO105227485	T47N R17W	22	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-114	CO105227486	T47N R17W	22	NW
12/20/2020	SUNRISE MINERALS INC	REX-115	CO105227487	T47N R17W	22	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-116	CO105227488	T47N R17W	22	NW
12/16/2020	SUNRISE MINERALS INC	REX-117	CO105227489	T47N R17W	22	NW
						NE
12/16/2020	SUNRISE MINERALS INC	REX-118	CO105227490	T47N R17W	22	NW
						SW
12/16/2020	SUNRISE MINERALS INC	REX-119	CO105227491	T47N R17W	22	NW
						NE
						SE
						SW
12/16/2020	SUNRISE MINERALS INC	REX-120	CO105227492	T47N R17W	22	SW
12/16/2020	SUNRISE MINERALS INC	REX-121	CO105227493	T47N R17W	22	SW
						SE
12/16/2020	SUNRISE MINERALS INC	REX-122	CO105227494	T47N R17W	22	SW
12/16/2020	SUNRISE MINERALS INC	REX-123	CO105227495	T47N R17W	22	SW
						SE
12/17/2020	SUNRISE MINERALS INC	REX-124	CO105227496	T47N R17W	3	SE
12/17/2020	SUNRISE MINERALS INC	REX-125	CO105227497	T47N R17W	2	SW SW
					3	SE SE
12/17/2020	SUNRISE MINERALS INC	REX-126	CO105227498	T47N R17W	3	SW/SE SE
					10	NW/NE NE

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12/17/2020	SUNRISE MINERALS INC	REX-127	CO105227499	T47N R17W	3	SE SE
					2	SW SW
					10	NE NE
					11	NW NW
12/17/2020	SUNRISE MINERALS INC	REX-128	CO105227500	T47N R17W	10	NW/NE NE
12/17/2020	SUNRISE MINERALS INC	REX-129	CO105227501	T47N R17W	10	NE NE
					11	NW NW
12/17/2020	SUNRISE MINERALS INC	REX-130	CO105227502	T47N R17W	10	NW/NE/SE/SW NE
12/17/2020	SUNRISE MINERALS INC	REX-131	CO105227503	T47N R17W	10	NE/SE NE
					11	NW/SW NW
12/17/2020	SUNRISE MINERALS INC	REX-132	CO105227504	T47N R17W	10	SW/SE NE
12/17/2020	SUNRISE MINERALS INC	REX-133	CO105227505	T47N R17W	10	SE NE
					11	SW NW
12/17/2020	SUNRISE MINERALS INC	REX-134	CO105227506	T47N R17W	10	SW/SE NE & NW/NE SE
12/17/2020	SUNRISE MINERALS INC	REX-135	CO105227507	T47N R17W	10	SE NE & NE SE
					11	SW NW & NW SW
12/17/2020	SUNRISE MINERALS INC	REX-136	CO105227508	T47N R17W	10	NW/NE SE
12/17/2020	SUNRISE MINERALS INC	REX-137	CO105227509	T47N R17W	10	NE SE
					11	NW SW
12/17/2020	SUNRISE MINERALS INC	REX-138	CO105227510	T47N R17W	10	NW/NE/SE/SW SE
12/17/2020	SUNRISE MINERALS INC	REX-139	CO105227511	T47N R17W	10	NE/SE SE
					11	NW/SW SW
12/17/2020	SUNRISE MINERALS INC	REX-140	CO105227512	T47N R17W	10	SW/SE SE
12/17/2020	SUNRISE MINERALS INC	REX-141	CO105227513	T47N R17W	10	SE SE
					11	SW SW
12/17/2020	SUNRISE MINERALS INC	REX-142	CO105227514	T47N R17W	10	SW/SE SE
12/17/2020	SUNRISE MINERALS INC	REX-143	CO105227515	T47N R17W	10	SE SE
					11	SW SW
12/17/2020	SUNRISE MINERALS INC	REX-144	CO105227516	T47N R17W	15	NE
12/17/2020	SUNRISE MINERALS INC	REX-145	CO105227517	T47N R17W	15	NE
					14	NW
12/17/2020	SUNRISE MINERALS INC	REX-146	CO105227518	T47N R17W	15	NE
12/17/2020	SUNRISE MINERALS INC	REX-147	CO105227519	T47N R17W	15	NE
					14	NW
12/17/2020	SUNRISE MINERALS INC	REX-148	CO105227520	T47N R17W	15	NE
12/17/2020	SUNRISE MINERALS INC	REX-149	CO105227521	T47N R17W	15	NE
					14	NW
12/17/2020	SUNRISE MINERALS INC	REX-150	CO105227522	T47N R17W	15	NE
12/17/2020	SUNRISE MINERALS INC	REX-151	CO105227523	T47N R17W	15	NE
					14	NW
12/17/2020	SUNRISE MINERALS INC	REX-152	CO105227524	T47N R17W	15	SE
12/17/2020	SUNRISE MINERALS INC	REX-153	CO105227525	T47N R17W	15	SE
					14	SW
12/17/2020	SUNRISE MINERALS INC	REX-154	CO105227526	T47N R17W	15	SE
12/17/2020	SUNRISE MINERALS INC	REX-155	CO105227527	T47N R17W	15	SE
					14	SW
12/17/2020	SUNRISE MINERALS INC	REX-156	CO105227528	T47N R17W	15	SE
12/17/2020	SUNRISE MINERALS INC	REX-157	CO105227529	T47N R17W	15	SE
					14	SW
12/17/2020	SUNRISE MINERALS INC	REX-158	CO105227530	T47N R17W	15	SE
12/17/2020	SUNRISE MINERALS INC	REX-159	CO105227531	T47N R17W	15	SE
					14	SW
12/17/2020	SUNRISE MINERALS INC	REX-160	CO105227532	T47N R17W	15	SE
					22	NE
12/17/2020	SUNRISE MINERALS INC	REX-161	CO105227533	T47N R17W	15	SE
					14	SW
					23	NW
					22	NE
12/17/2020	SUNRISE MINERALS INC	REX-162	CO105227534	T47N R17W	22	NE

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12/17/2020	SUNRISE MINERALS INC	REX-163	CO105227535	T47N R17W	22	NW
					23	NE
12/17/2020	SUNRISE MINERALS INC	REX-164	CO105227536	T47N R17W	22	NE
12/17/2020	SUNRISE MINERALS INC	REX-165	CO105227537	T47N R17W	22	NE
					23	NW
12/17/2020	SUNRISE MINERALS INC	REX-166	CO105227538	T47N R17W	22	NE
12/17/2020	SUNRISE MINERALS INC	REX-167	CO105227539	T47N R17W	22	NE
					23	NW
12/17/2020	SUNRISE MINERALS INC	REX-168	CO105227540	T47N R17W	22	NE
12/17/2020	SUNRISE MINERALS INC	REX-169	CO105227541	T47N R17W	22	NE
					23	NW
12/17/2020	SUNRISE MINERALS INC	REX-170	CO105227542	T47N R17W	22	SE
12/17/2020	SUNRISE MINERALS INC	REX-171	CO105227543	T47N R17W	22	SE
					23	SW
12/17/2020	SUNRISE MINERALS INC	REX-172	CO105227544	T47N R17W	22	SE
12/17/2020	SUNRISE MINERALS INC	REX-173	CO105227545	T47N R17W	22	SE
					23	SW
12/17/2020	SUNRISE MINERALS INC	REX-174	CO105227546	T47N R17W	22	SE
					23	SW
12/17/2020	SUNRISE MINERALS INC	REX-175	CO105227547	T47N R17W	22	SE
					23	SW
12/17/2020	SUNRISE MINERALS INC	REX-176	CO105227548	T47N R17W	22	SE
12/17/2020	SUNRISE MINERALS INC	REX-177	CO105227549	T47N R17W	2	SW/SE SW
					11	NE NW
12/17/2020	SUNRISE MINERALS INC	REX-178	CO105227550	T47N R17W	2	SW
						SE
12/17/2020	SUNRISE MINERALS INC	REX-179	CO105227551	T47N R17W	11	NW/NE NW
12/17/2020	SUNRISE MINERALS INC	REX-180	CO105227552	T47N R17W	11	NE
12/17/2020	SUNRISE MINERALS INC	REX-181	CO105227553	T47N R17W	11	NW
12/18/2020	SUNRISE MINERALS INC	REX-182	CO105227554	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-183	CO105227555	T47N R17W	11	NW
12/18/2020	SUNRISE MINERALS INC	REX-184	CO105227556	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-185	CO105227557	T47N R17W	11	NW
12/18/2020	SUNRISE MINERALS INC	REX-186	CO105227558	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-187	CO105227559	T47N R17W	11	NW
						SW
12/18/2020	SUNRISE MINERALS INC	REX-188	CO105227560	T47N R17W	11	NE
						SE
12/18/2020	SUNRISE MINERALS INC	REX-189	CO105227561	T47N R17W	11	SW
12/18/2020	SUNRISE MINERALS INC	REX-190	CO105227562	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-191	CO105227563	T47N R17W	11	SW
12/18/2020	SUNRISE MINERALS INC	REX-192	CO105227564	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-193	CO105227565	T47N R17W	11	SW
12/18/2020	SUNRISE MINERALS INC	REX-194	CO105227566	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-195	CO105227567	T47N R17W	11	SW
					14	NW
12/18/2020	SUNRISE MINERALS INC	REX-196	CO105227568	T47N R17W	11	SE
					14	NE
12/18/2020	SUNRISE MINERALS INC	REX-197	CO105227569	T47N R17W	14	NW
12/18/2020	SUNRISE MINERALS INC	REX-198	CO105227570	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-199	CO105227571	T47N R17W	14	NW
12/18/2020	SUNRISE MINERALS INC	REX-200	CO105227572	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-201	CO105227573	T47N R17W	14	NW
12/18/2020	SUNRISE MINERALS INC	REX-202	CO105227574	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-203	CO105227575	T47N R17W	14	NW
12/18/2020	SUNRISE MINERALS INC	REX-204	CO105227576	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-205	CO105227577	T47N R17W	14	SW
12/18/2020	SUNRISE MINERALS INC	REX-206	CO105227578	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-207	CO105227579	T47N R17W	14	SW
12/18/2020	SUNRISE MINERALS INC	REX-208	CO105227580	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-209	CO105227581	T47N R17W	14	SW

List of Claims
Sunrise Minerals, Inc. Lode Mining Claims
Montrose County, Colorado
Number of Claims: 256

Location Date	Owner(s)	Claim Name	Serial Number	Legal Description	Section	Quadrant and 1/4 1/4
12/18/2020	SUNRISE MINERALS INC	REX-210	CO105227582	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-211	CO105227583	T47N R17W	14	SW
12/18/2020	SUNRISE MINERALS INC	REX-212	CO105227584	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-213	CO105227585	T47N R17W	14	SW
					23	NW
12/18/2020	SUNRISE MINERALS INC	REX-214	CO105227586	T47N R17W	14	SE
					23	NE
12/18/2020	SUNRISE MINERALS INC	REX-215	CO105227587	T47N R17W	23	NW
12/18/2020	SUNRISE MINERALS INC	REX-216	CO105227588	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-217	CO105227589	T47N R17W	23	NW
12/18/2020	SUNRISE MINERALS INC	REX-218	CO105227590	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-219	CO105227591	T47N R17W	23	NW
12/18/2020	SUNRISE MINERALS INC	REX-220	CO105227592	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-221	CO105227593	T47N R17W	23	SW
12/18/2020	SUNRISE MINERALS INC	REX-222	CO105227594	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-223	CO105227595	T47N R17W	23	SW
12/18/2020	SUNRISE MINERALS INC	REX-224	CO105227596	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-225	CO105227597	T47N R17W	23	SW
12/18/2020	SUNRISE MINERALS INC	REX-226	CO105227598	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-227	CO105227599	T47N R17W	23	SW
12/18/2020	SUNRISE MINERALS INC	REX-228	CO105227600	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-229	CO105227601	T47N R17W	23	SW
12/18/2020	SUNRISE MINERALS INC	REX-230	CO105227602	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-231	CO105227603	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-232	CO105227604	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-233	CO105227605	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-234	CO105227606	T47N R17W	11	NE
12/18/2020	SUNRISE MINERALS INC	REX-235	CO105227607	T47N R17W	11	NE
						SE
12/18/2020	SUNRISE MINERALS INC	REX-236	CO105227608	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-237	CO105227609	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-238	CO105227610	T47N R17W	11	SE
12/18/2020	SUNRISE MINERALS INC	REX-239	CO105227611	T47N R17W	11	SE
					14	NE
12/18/2020	SUNRISE MINERALS INC	REX-240	CO105227612	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-241	CO105227613	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-242	CO105227614	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-243	CO105227615	T47N R17W	14	NE
12/18/2020	SUNRISE MINERALS INC	REX-244	CO105227616	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-245	CO105227617	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-246	CO105227618	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-247	CO105227619	T47N R17W	14	SE
12/18/2020	SUNRISE MINERALS INC	REX-248	CO105227620	T47N R17W	14	SE
					23	NE
12/18/2020	SUNRISE MINERALS INC	REX-249	CO105227621	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-250	CO105227622	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-251	CO105227623	T47N R17W	23	NE
12/18/2020	SUNRISE MINERALS INC	REX-252	CO105227624	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-253	CO105227625	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-254	CO105227626	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-255	CO105227627	T47N R17W	23	SE
12/18/2020	SUNRISE MINERALS INC	REX-256	CO105227628	T47N R17W	23	SE

Attachment 5 Evidence of Notification of BLM

SRK Consulting (U.S.), Inc.
1250 Lamoille Highway, Suite 520
Elko, NV 89801
United States

+1 775 753 4151 office
+1 775 753 4152 fax
elko@srk.com
www.srk.com

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

Project: USPR001303
July 14, 2023

Subject Amendment to Notice of Intent (P-2022-019) to Conduct Prospecting Operations for the REX Project in Montrose County, Colorado

Dear Mr. Beresford,

On behalf of Sunrise Minerals Inc. (Sunrise), SRK Consulting (U.S.), Inc. (SRK) submits the enclosed *Notice of Intent to Conduct Prospecting Operations* (Notice) as an amendment to NOI P-2-22-019 for the REX Project located in Montrose County Colorado. The attached documents have been submitted to the Colorado Division of Reclamation, Mining and Safety (DRMS).

Sunrise proposes to expand the authorized exploration drilling program for the REX Project. The application submitted to the DRMS is in Attachment 1. Supporting documents include the following:

- Figures
- Drill Site Coordinates
- List of Claims
- Disturbance Calculations
- Photographs
- West Side Seed Mix
- Reclamation cost estimate

The proposed amendment to the exploration drilling program includes the addition of 18 drill holes and pads along with access roads for the REX Project. The exploration is in an area that has had prior mining and exploration for several decades. Most access roads are existing are passable without improvement. In many locations the road is on bedrock. Areas of existing roads that will require improvement are noted on the figures. Proposed drill pads will be adjacent to roads whether existing or proposed. The improved roads and laydown yard will continue to be used with this amendment.

A USB drive is included that contains digital copies of the documents as well as GIS data for the proposed exploration.

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.

Cari Anderson, E.I.
Senior Consultant

Cc: Colorado DRMS w/out enclosure and attachment

Enclosure:

USB Drive containing digital copies of the submittal including GIS data

Attachments:

Attachment 1 Notice of Intent to Conduct Prospecting Operations Form 2

Attachment 6 Disturbance Calculations

REX Road and Pad Disturbance and Improvements

Summary

Total road disturbance is	**2.16**	acres.
Total drill pad disturbance is	**1.63**	acres.
Total plan view disturbance is	**3.78**	acres.

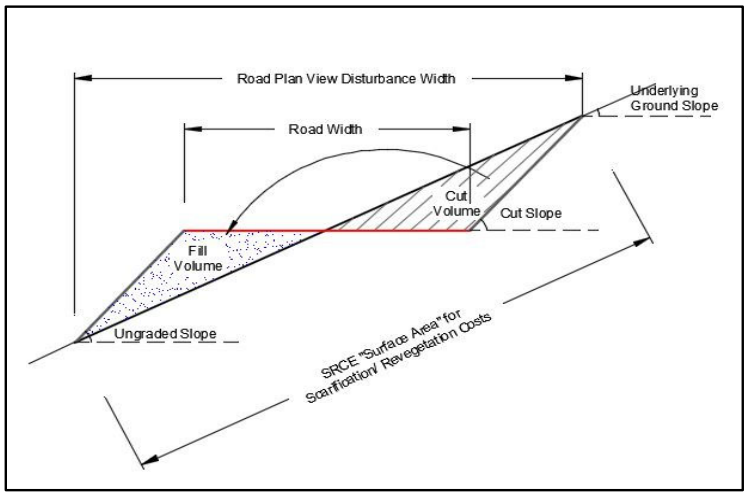
	Description	ID Code	Underlying Ground Slope	Ungraded Slope	Cut Slope	Road + Drill Pad Length	Road Width	Number of Drill Pads	Individual Sump Volume	Drill Pad Width	Drill Pad Length	Grading Fleet	Slope Replacement Percent
			% grade	_H:1V	degrees	ft	ft		cy	ft	ft		%
0													
1	**Drill Pads**		**5.0**	**1.3**	**60.0**	**1,350**	**12.0**	**18**	**12**	**50.0**	**75**	**Sm Dozer**	**100**
2	**Proposed Road to Site #2 - #6**		**15.0**	**1.3**	**60.0**	**2,280**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
3													
4	**Proposed Road to Site #12**		**15.0**	**1.3**	**60.0**	**110**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
5	**Proposed Road to Site #13 Alt**		**15.0**	**1.3**	**60.0**	**265**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
6	**Proposed Road to Site #21**		**15.0**	**1.3**	**60.0**	**55**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
7	**Proposed Road to Site #20**		**15.0**	**1.3**	**60.0**	**410**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
8	**Improved Road 15%**		**15.0**	**1.3**	**60.0**	**1,050**	**12.0**	**0**	**0**	**0.0**	**0**	**Sm Excavator**	**100**
9	**Improved Road 10%**		**10.0**	**1.3**	**60.0**	**300**	**12.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
10	**Improved Road 5%**		**5.0**	**1.3**	**60.0**	**650**	**12.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
11													
12	**Alternate Road**		**30.0**	**1.3**	**60.0**	**800**	**14.0**	**0**	**0**	**0.0**	**0**	**Sm Dozer**	**100**
13													
14													

Notes:

Laydown yard near junction with W19, underlying ground slope estimated at 5%.
Drill pads are all in relatively flat areas. Estimated underlying ground slope is 5%.
Proposed road underlying ground slope estimated at 15%. Improved road underlying ground slope estimated between 5 and 15%

Calculation

	Description	ID Code	Ungraded Slope	Cut Slope	Road Plan View Width	Road Net Length	Road Disturbance	Drill Pad Plan View Width	Drill Pad Length	Drill Pad Disturbance
			_H:1V	degrees	(ft)	(ft)	(acres)	(ft)	(ft)	(acres)
0										
1	Drill Pads		1.30	60.00	12.60	0	0.00	52.48	1,350	1.63
2	Proposed Road to Site #2 - #6		1.30	60.00	16.36	2,280	0.86	0.00	0	0.00
3										
4	Proposed Road to Site #12		1.30	60.00	16.36	110	0.04	0.00	0	0.00
5	Proposed Road to Site #13 Alt		1.30	60.00	16.36	265	0.10	0.00	0	0.00
6	Proposed Road to Site #21		1.30	60.00	16.36	55	0.02	0.00	0	0.00
7	Proposed Road to Site #20		1.30	60.00	16.36	410	0.15	0.00	0	0.00
8	Improved Road 15%		1.30	60.00	14.02	1,050	0.34	0.00	0	0.00
9	Improved Road 10%		1.30	60.00	13.26	300	0.09	0.00	0	0.00
10	Improved Road 5%		1.30	60.00	12.60	650	0.19	0.00	0	0.00
11										
12	Alternate Road		1.30	60.00	19.94	800	0.37	0.00	0	0.00
13										
14										



Attachment 7 Photographs

General Landscape of Claim Area

Access Road

North Side

Lower Basin

Existing Mine/Dump Area

Drill Site 1

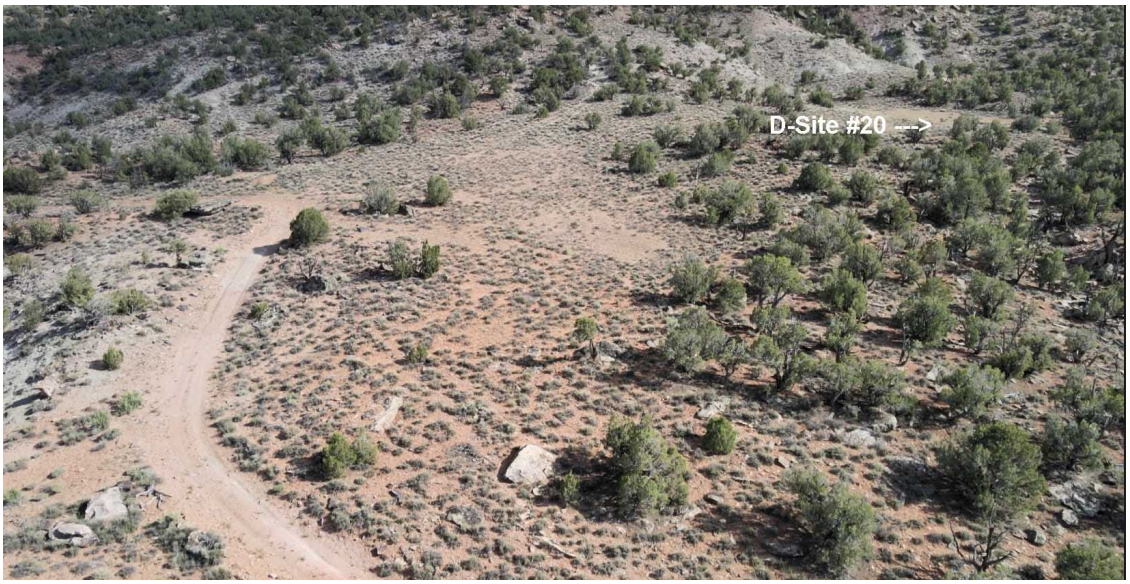
Drill Site 4

Drill Site 9

Drill Sites 14 along road

Drill Site 15 along road

Drill Site 18



Drill Site 20

Drill Site 21

Attachment 8 BLM West Side Seed Mix

REX Project
Sunrise Minerals, Inc.
Montrose County, Colorado
BLM West End Seed Mix

Scientific Name	Common Name	Broadcast Application Rate (lb. PLS/acre)
Pascopyrum smithii	Arriba western wheatgrass	4.0
Elymus trachycaulus ssp. Trachycaulus	Slender wheatgrass	2.0
Achnatherum hymenoides	Paloma or Rimrock Indian ricegrass	3.0
Bouteloua gracilis	Hachita blue gama	2.0
Pleuraphis jamesii (florets)	James' galleta	2.0
Hesperostipa comata ssp. Comata	Needle and thread	1.0
Nassella viridula	Lodorm green needlegrass	2.0
Achillea millefolium var. occidentalis	Western yarrow	0.1
Dieteria bigelovii var. bigelovii	Bigelow's tansyaster	0.1
Dieteria canescens	Hoary tansyaster	0.1
Heliomeris multiflora	Showy goldeneye	0.1
Helianthus annuus	Common sunflower	1.0
Lenum lewisii	Lewis flax	1.0
Penstemon cyanocaulis	Bluestem beardtongue	0.5
Peritoma serrulate	Rocky Mountain beeplant	1.0
Sphaeralcea coccinea or Sphaeralcea parvifolia	Scarlet or small-leaf globemallow	0.3
Atriplex canescens	Fourwing saltbrush	2.0
Krascheninnikovia lanata	Winterfat	1.0
Total pounds of Pure Live Seed per acre (lb. PLS/acre):		**23.2**

Attachment 9 Reclamation Cost Estimate

Financial Warranty Documents will be finalized and submitted under a separate cover.

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

File Name:	Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.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:	Amended REX Exploration NOI P-2022-019 Montrose County CO
Date of Submittal:	June 2023
Average Altitude:	6000 ft.
Select One:	☐ Notice or Sm Exploration Plan ☐ Lg Exploration Plan ☐ Mine Operation
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**

nended REX Exploration NOI P-2022-019 Montrose County CO
Project Date: June 2023
EX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm
Notice

Table of Contents

Description

Closure Cost Estimate
Cost Summary

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO
Project Date: June 2023
Model Version: Version 1.4.1
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm

A. Earthwork/Recontouring	Labor (1)	Equipment (2)	Materials	Total
Exploration	$711	$520	$7	$1,238
Exploration Roads & Drill Pads	$4,554	$9,785	$0	$14,339
Roads	$0	$0	$0	$0
Well Abandonment	$0	$0	$0	$0
Pits	$0	$0	N/A	$0
Quarries & Borrow Areas	$0	$0	$0	$0
Underground Openings	$0	$0	$0	$0
Process Ponds	$0	$0	$0	$0
Heaps	$0	$0	$0	$0
Waste Rock Dumps	$0	$0	$0	$0
Landfills	$0	$0	$0	$0
Tailings	$0	$0	$0	$0
Foundation & Buildings Areas	$0	$0	$0	$0
Yards, Etc.	$0	$0	$0	$0
Drainage & Sediment Control	$0	$0	$0	$0
Generic Material Hauling	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal	**$5,265**	**$10,305**	**$7**	**$15,577**
Mob/Demob if included in Other User sheet	$0	$0	$0	$0
Mob/Demob **Estimated Mob/Demob Dozer, Backhoe**	$2,500	$2,500		$5,000
Subtotal "A"	**$7,765**	**$12,805**	**$7**	**$20,577**

B. Revegetation/Stabilization	Labor (1)	Equipment (2)	Materials	Total
Exploration	$0	$0	$0	$0
Exploration Roads & Drill Pads	$1,860	$1,063	$2,240	$5,163
Roads	$0	$0	$0	$0
Well Abandonment				N/A
Pits	$0	$0	$0	$0
Quarries & Borrow Areas	$0	$0	$0	$0
Underground Openings				N/A
Process Ponds	$0	$0	$0	$0
Heaps	$0	$0	$0	$0
Waste Rock Dumps	$0	$0	$0	$0
Landfills	$0	$0	$0	$0
Tailings	$0	$0	$0	$0
Foundation & Buildings Areas	$0	$0	$0	$0
Yards, Etc.	$0	$0	$0	$0
Drainage & Sediment Control	$0	$0	$0	$0
Generic Material Hauling	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "B"	**$1,860**	**$1,063**	**$2,240**	**$5,163**

C. Detoxification/Water Treatment/Disposal of Wastes**	Labor (1)	Equipment (2)	Materials	Total
Process Ponds/Sludge				$0
Heaps				$0
Dumps (Waste & Landfill)				$0
Tailings				$0
Surplus Water Disposal				$0
Monitoring				$0
Miscellaneous				$0
Solid Waste - On Site	$0	$0	N/A	$0
Solid Waste - Off Site				$0
Hazardous Materials				$0
Hydrocarbon Contaminated Soils	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "C"	**$0**	**$0**	**$0**	**$0**

D. Structure, Equipment and Facility Removal, and Misc.	Labor (1)	Equipment (2)	Materials	Total
Foundation & Buildings Areas	$0	$0	$0	$0
Other Demolition	$0	$0	$0	$0
Equipment Removal	$0	$0	$0	$0
Fence Removal	$0	$0		$0
Fence Installation	$0	$0	$0	$0
Culvert Removal	$305	$142	N/A	$447
Pipe Removal	$0	$0	N/A	$0
Powerline Removal	$0			$0
Transformer Removal	$0			$0
Rip-rap, rock lining, gabions	$0	$0	$0	$0
Other Misc. Costs	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other** **Removal of sediment control measures**	**$1,500**	**$1,500**		$3,000
Subtotal "D"	**$1,805**	**$1,642**	**$0**	**$3,447**

E. Monitoring	Labor (1)	Equipment (2)	Materials	Total
Reclamation Monitoring and Maintenance	$0	$0	$0	$0
Ground and Surface Water Monitoring	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Subtotal "E"	**$0**	**$0**	**$0**	**$0**

F. Construction Management & Support	Labor	Equipment (2)	Materials	Total
Construction Management	$0	$0	N/A	$0
Construction Support	$0	$0	$0	$0
Road Maintenance	$0	$0	$0	$0
Other User Costs (from Other User sheet)	$0	$0	$0	$0
Other**				$0
Subtotal "F"	**$0**	**$0**	**$0**	**$0**

Subtotal Operational & Maintenance Costs	Labor (1)	Equipment (2)	Materials (3)	Total
Subtotal A through F	**$11,430**	**$15,510**	**$2,247**	**$29,187**

** Other Operator supplied costs - additional documentation required.

Closure Cost Estimate
Cost Summary

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO
Project Date: June 2023
Model Version: Version 1.4.1
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm

Indirect Costs				Include?	Total
1. Engineering, Design and Construction (ED&C) Plan (7)					N/A
2. Contingency (8)					N/A
3. Insurance (9)		$171			$171
4. Performance Bond (10)					N/A
5. Contractor Profit (11)					$2,919
6. Contract Administration (12)					$2,919
7. Government Indirect Cost (13)					$613
Subtotal Add-On Costs					**$6,622**
Total Indirect Costs as % of Direct Cost					23%
GRAND TOTAL					**$35,809**

Administrative Cost Rates (%)					
	Cost Ranges for Indirect Cost Percentages				
	<=	<=	<=	>	
1. 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)	1.5%	of labor costs			
4. Bond (10)	3.0%	of the O&M costs if O&M costs are >$100,000			
5. Contractor Profit (11)	10%	of the O&M costs			
	<=	<=	<=	>	
6. Contract Administration (12)	$1,000,000	$25,000,000		$25,000,000	
Variable Rate	10%	8%		6%	
Government Indirect Cost (13)	21%	of contract administration			

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 cost estimate. Mitigation may include 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 estimation to cover unforeseen cost elements. 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: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
Date of Submittal: June 2023
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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

Reclamation Quantity Summary

												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				
3	Heap Leach Pads		$ -		$ -		$ -		$ -	$ -	$ -		N/A				
5	Open Pits		$ -							$ -	$ -		N/A				
4	Quarries & Borrow Pits		$ -		$ -		$ -		$ -	$ -	$ -		N/A				
6	Roads		$ -				$ -		$ -	$ -	$ -		N/A				
7	Landfills		$ -		$ -		$ -		$ -	$ -	$ -		N/A				
8	Buildings				$ -		$ -		$ -	$ -	$ -		N/A				
9	Yards		$ -		$ -		$ -		$ -	$ -	$ -		N/A				
10	Ponds		$ -				$ -			$ -	$ -	N/A					
11	Exploration Roads	2,174	$ 11,939				$ -	3.82	$ 2,400	$ 5,163	$ 19,502	$5.49	N/A			$628.27	$5,105.24
12	Exploration Trenches		$ -							$ -	$ -		N/A				
13	Diversion Ditches		$ -							$ -	$ -		N/A				
14	Sediment Ponds		$ -				$ -		$ -	$ -	$ -						
15	Generic Haulage/Backfill		$ -		$ -		$ -		$ -	$ -	$ -	N/A					
16	Adit/Decline Backfilling1		$ -								$ -	N/A					
17	Shaft Backfilling		$ -								$ -	N/A					
	TOTALS	2,174	$ 11,939	-	$ -	-	$ -	3.82	$ 2,400	$ 5,163	$ 19,502						
	Average Costs	per CY	$5.49	per CY		per CY		per acre	$628.27	$2.15	$5,105	per acre					

Closure Cost Estimate
Exploration

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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

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**

Exploration Drillhole Abandonment - User Input

	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 1-6, 9-10, 12-21**		**Reverse Circ**	**6.0**	**18.0**	**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.

Exploration 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

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 1-6, 9-10, 12-21**	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)

Closure Cost Estimate
Exploration

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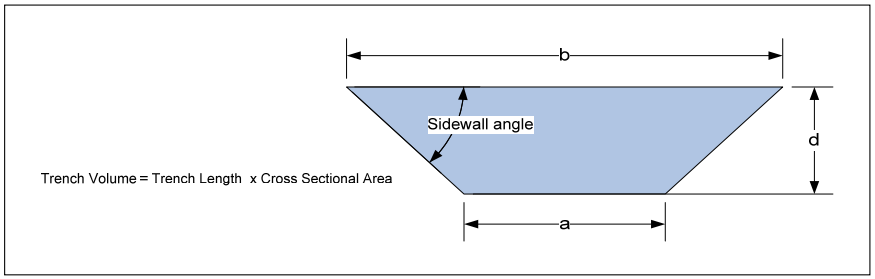
Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

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**

Exploration Trenches - Calculations

Exploration Trench Volume Calculation



Trench Volume = Trench Length x Cross Sectional Area

Dozing & Ripping/Scarifying Calculations

Dozing: Dozing distance = 1/2 trench length or 400 ft (max push) whichever is less
Assumes flat push (grade correction factor = 1)

Revegetation: 10 ft added to trench width to account for revegetation under spoil pile

Closure Cost Estimate
Exploration

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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**

Exploration Trenches - Backfill/Regrading Costs

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 ft	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**

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**

Closure Cost Estimate
Expl. Roads & Pads

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
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Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Exploration Roads & Pads - Cost Summary	Labor	Equipment	Materials	Totals
Grading Costs	$3,844	$8,095	N/A	$11,939
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$710	$1,690	N/A	$2,400
Subtotal Earthworks	**$4,554**	**$9,785**		**$14,339**
Revegetation Cost	$1,860	$1,063	$2,240	$5,163
TOTALS	**$6,414**	**$10,848**	**$2,240**	**$19,502**

Exploration Roads & Pads - User Input — You must fill in ALL green cells and relevant blue cells in this section for each road

	Facility Description		Physical (1) - 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	Drill Pads		5.0	1.3	60.0	1,350	12.0	18	12	50.0	75	100%					
2	Proposed Road to Site #2 - #6		15.0	1.3	60.0	2,280	14.0	0	0	0.0	0	100%					
3	Proposed Road to Site #12		15.0	1.3	60.0	110	14.0	0	0	0.0	0	100%					
4	Proposed Road to Site #13 Alt		15.0	1.3	60.0	265	14.0	0	0	0.0	0	100%					
5	Proposed Road to Site #21		15.0	1.3	60.0	55	14.0	0	0	0.0	0	100%					
6	Proposed Road to Site #20		15.0	1.3	60.0	410	14.0	0	0	0.0	0	100%					
7	Improved Road 15%		15.0	1.3	60.0	1,050	12.0	0	0	0.0	0	100%					
8	Improved Road 10%		10.0	1.3	60.0	300	12.0	0	0	0.0	0	100%					
9	Improved Road 5%		5.0	1.3	60.0	650	12.0	0	0	0.0	0	100%					
10	Alternate Road		30.0	1.3	60.0	800	14.0	0	0	0.0	0	100%					

Notes:
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 cut 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.

Laydown yard, three drill pads, some improved road length and proposed road length included in the original NOI P-2022-019.
Drill pads are all in relatively flat areas. Estimated underlying ground slope is 5%.
Proposed road underlying ground slope estimated at 15%. Improved road underlying ground slope estimated between 5 and 15%
The disturbance area for the Alternate Road is more than the area that would be improved on the existing road in the area of the Faery Queen Patent, so the reclamation costs are covered for either route.

Exploration Roads & Pads - User Input (cont.) — You must fill in ALL green cells and relevant blue cells in this section for each road

		Grading				Growth Media				Revegetation				
	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	Drill Pads	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
2	Proposed Road to Site #2 - #6	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
3	Proposed Road to Site #12	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
4	Proposed Road to Site #13 Alt	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
5	Proposed Road to Site #21	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
6	Proposed Road to Site #20	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
7	Improved Road 15%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
8	Improved Road 10%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
9	Improved Road 5%	1	Granite - broken	Small Dozer						User Mix 1	None	None	Yes	Small Dozer
10	Alternate Road	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

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Cost Estimate Type: Surety **Cost Basis: N. Nevada Notice Level**

Exploration Roads & Pads - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$3,844	$8,095	N/A	$11,939
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$710	$1,690	N/A	$2,400
Subtotal Earthworks	**$4,554**	**$9,785**		**$14,339**
Revegetation Cost	$1,860	$1,063	$2,240	$5,163
TOTALS	**$6,414**	**$10,848**	**$2,240**	**$19,502**

Exploration Roads & Pads - Calculations

Regrading Volume and Footprint Volume

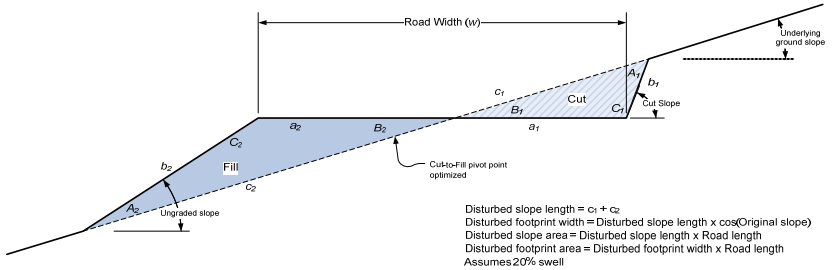

Figure 1 - Regrading Volume Calculation

Will not allow dozer for slopes greater than 30%
For dozer regrading push distance = road width
Assumes dozer push is uphill
Assumes minimum push distance of 100 ft

Swell Factor: 1.2

Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area
Number of passes = Final slope length ÷ Grader width
Travel distance = Number of passes x Road length
Total hours = (Travel distance ÷ Grader productivity) + (Number of passes x Grader maneuver time)
For dozer regrading assumes push distance = 3 x road width

Revegetation Calculations

Minimum of 1 acre crew time per area

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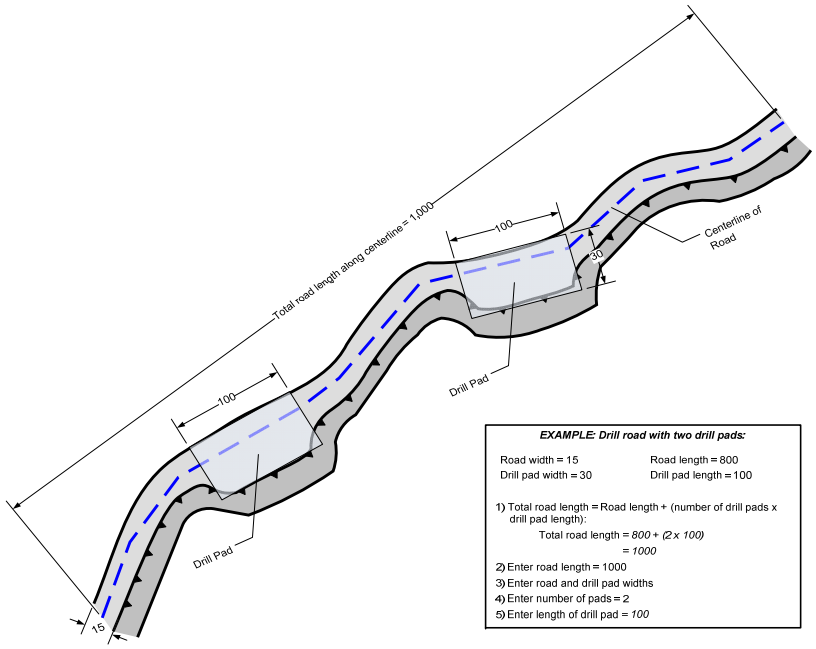
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$710	$1,690	N/A	$2,400
Subtotal Earthworks	**$4,554**	**$9,785**		**$14,339**
Revegetation Cost	$1,860	$1,063	$2,240	$5,163
TOTALS	**$6,414**	**$10,848**	**$2,240**	**$19,502**

Inputting Exploration Roads and Drill Pads



EXAMPLE: Drill road with two drill pads:

Road width = 15 Road length = 800
Drill pad width = 30 Drill pad length = 100

1) Total road length = Road length + (number of drill pads x drill pad length):
Total road length = *800 + (2 x 100)*
= 1000
2) Enter road length = 1000
3) Enter road and drill pad widths
4) Enter number of pads = 2
5) Enter length of drill pad = *100*

Closure Cost Estimate
Expl. Roads & Pads

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Exploration Roads & Pads - Cost Summary

	Labor	Equipment	Materials	Totals
Grading Costs	$3,844	$8,095	N/A	$11,939
Cover Placement Cost	$0	$0	N/A	$0
Ripping/Scarifying Cost	$710	$1,690	N/A	$2,400
Subtotal Earthworks	**$4,554**	**$9,785**		**$14,339**
Revegetation Cost	$1,860	$1,063	$2,240	$5,163
TOTALS	**$6,414**	**$10,848**	**$2,240**	**$19,502**

Exploration 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	**Drill Pads**	0	1,350	1,113	D6R	105	11	$783	$1,649	$2,432
2	**Proposed Road to Site #2 - #6**	2,280	0	396	D6R	59	7	$499	$1,049	$1,548
3	**Proposed Road to Site #12**	110	0	19	D6R	59	1	$71	$150	$221
4	**Proposed Road to Site #13 Alt**	265	0	46	D6R	59	1	$71	$150	$221
5	**Proposed Road to Site #21**	55	0	10	D6R	59	1	$71	$150	$221
6	**Proposed Road to Site #20**	410	0	71	D6R	59	1	$71	$150	$221
7	**Improved Road 15%**	1,050	0	134	D6R	59	2	$142	$300	$442
8	**Improved Road 10%**	300	0	24	D6R	81	1	$71	$150	$221
9	**Improved Road 5%**	650	0	25	D6R	105	1	$71	$150	$221
10	**Alternate Road**	800	0	336	D6R	12	28	$1,994	$4,197	$6,191
		5,920	1,350	2,174			54	**$3,844**	**$8,095**	**$11,939**

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

Exploration Roads & Pads - Growth Media Costs

	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	**Drill Pads**						$0	$0	$0
2	**Proposed Road to Site #2 - #6**						$0	$0	$0
3	**Proposed Road to Site #12**						$0	$0	$0
4	**Proposed Road to Site #13 Alt**						$0	$0	$0
5	**Proposed Road to Site #21**						$0	$0	$0
6	**Proposed Road to Site #20**						$0	$0	$0
7	**Improved Road 15%**						$0	$0	$0
8	**Improved Road 10%**						$0	$0	$0
9	**Improved Road 5%**						$0	$0	$0
10	**Alternate Road**						$0	$0	$0
							$0	**$0**	**$0**

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	**Drill Pads**	1.63	D7R	1	$71	$169	$240	$285	$163	$956	$1,404
2	**Proposed Road to Site #2 - #6**	0.87	D7R	1	$71	$169	$240	$175	$100	$510	$785
3	**Proposed Road to Site #12**	0.04	D7R	1	$71	$169	$240	$175	$100	$23	$298
4	**Proposed Road to Site #13 Alt**	0.10	D7R	1	$71	$169	$240	$175	$100	$59	$334
5	**Proposed Road to Site #21**	0.02	D7R	1	$71	$169	$240	$175	$100	$12	$287
6	**Proposed Road to Site #20**	0.16	D7R	1	$71	$169	$240	$175	$100	$94	$369
7	**Improved Road 15%**	0.34	D7R	1	$71	$169	$240	$175	$100	$199	$474
8	**Improved Road 10%**	0.09	D7R	1	$71	$169	$240	$175	$100	$53	$328
9	**Improved Road 5%**	0.19	D7R	1	$71	$169	$240	$175	$100	$111	$386
10	**Alternate Road**	0.38	D7R	1	$71	$169	$240	$175	$100	$223	$498
		3.82		10	**$710**	**$1,690**	**$2,400**	**$1,860**	**$1,063**	**$2,240**	**$5,163**

Closure Cost Estimate
Labor Rates

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
Date of Submittal: June 2023
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.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

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

Cost Basis/Project Region	N. Nevada Notice Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White
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%**

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 ($/hr)
Equipment Operators ($/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	$0.00	$37.51	$24.80	$1.13	$2.87	$4.91	$0.00	$71.22
D10R		$37.51	$0.00	$37.51	$24.80	$1.13	$2.87	$4.91	$0.00	$71.22
D11R		$37.51	$0.00	$37.51	$24.80	$1.13	$2.87	$4.91	$0.00	$71.22
Wheeled Dozers										
824G					$24.80					
834G					$24.80					
844					$24.80					
854G					$24.80					
Motor Graders										
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	$5.03	$0.00	$72.28
16G/H		$38.37	$0.00	$38.37	$24.80	$1.15	$2.94	$5.03	$0.00	$72.28
24M					$24.80					
Track Excavators										
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					$24.80					
992G		$38.37	$0.00	$38.37	$24.80	$1.15	$2.94	$5.03	$0.00	$72.28
994D					$24.80					
L2350					$24.80					
Shovels										
PC2000					$24.80					
PC3000					$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: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
Date of Submittal: June 2023
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm
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Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

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ZONE ADJUSTMENTS

Cost Basis/Project Region	N. Nevada Notice Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White
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%**

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	$70.49
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:	Catepillar model or equivalent, LeTourneau
(2) Equipment Operator Source:	D-B NV20220002 3/11/2022
(3) Zone Basis:	From Washoe Co. Courthouse

Truck Drivers ($/hr) (4)

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					$4.16					
777D	ruck Driver > 60 yds	$31.50	$0.00	$31.50	$4.16	$0.95	$2.41	$4.13	$0.00	$43.14
785C					$4.16					
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					$4.16					
785C Water Truck					$4.16					
Dump Truck (10-12 yd3)	Truck Driver > 8 yds <	$31.50	$0.00	$31.50	$4.16	$0.95	$2.41	$4.13	$0.00	$43.14

NOTES:

(4) Truck Driver Source:	D-B SUNV2017-001 10/1/2018
(5) Zone Basis:	From Washoe Co. Courthouse

Closure Cost Estimate
Labor Rates

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
Date of Submittal: June 2023
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm
Model Version: Version 1.4.1
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ZONE ADJUSTMENTS

Cost Basis/Project Region	N. Nevada Notice Level	Notice Level Cost Basis for Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, Washoe, and White
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%**

HOURLY 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:

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

Project Management and Technical Labor ($/hr) (9)

Project Manager		$68.63		$68.63	$14.77	$2.06	$5.25	$8.99	$0.00	$99.69
Foreman		$63.56		$63.56	$14.77	$1.91	$4.86	$8.33	$0.00	$93.43
Field Geologist/Engineer		$113.13		$113.13	$14.77	$3.39	$8.65	$14.82	$0.00	$154.77
Field Tech/Sampler		$76.77		$76.77	$14.77	$2.30	$5.87	$10.06	$0.00	$109.77
Range Scientist		$92.93		$92.93	$14.77	$2.79	$7.11	$12.17	$0.00	$129.77
Senior Planning Engineer					$14.77					
Project Engineer					$14.77					
Mechanic/Fitter					$14.77					
					$14.77					
					$14.77					
					$14.77					
					$14.77					

NOTES:

(9) Project Manager:	R.S.Means 2022 Q2 (01 31 1320 0200 Total Incl.O&P-10%) Adjusted for Elko, NV
(9) Foreman Source:	R.S.Means 2022 Q2 (01 31 1320 0200 Total Incl.O&P-10%) Adjusted for Elko, NV
(9) Techical Labor Source:	Wood plc 2022 Adjusted for Zone,Tax and Ins.
Other Labor Source:	
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)	

Closure Cost Estimate
Equipment Costs

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Expl
Date of Submittal: June 2023
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm
Model Version: Version 1.4.1
Cost Data: User Data
Cost Data File: 20220801_SRCE_Cost_Data_File_1_12_Std_2022.xlsm
Monthly Rental Basis: 40 hrs month

EQUIPMENT RENTAL RATE TABLE

EQUIPMENT TYPE (1)	Monthly Owner/Rental Rate	Equipment Hourly Rate	Fuel/Lube/ Wear	Total Rate
Bulldozers				
D6R	$4,500.00	$112.50	$37.41	$149.91
D6R w/ Winch			$21.13	$21.13
D7R	$5,090.00	$127.25	$41.63	$168.88
D8R	$9,120.00	$228.00	$55.87	$283.87
D9R	$12,215.00	$305.38	$79.51	$384.88
D10R	$16,880.00	$422.00	$102.07	$524.07
D11R	N/A	$0.00	$89.57	$89.57
Wheeled Dozers				
824G			$36.34	$36.34
834G			$42.59	$42.59
844			$50.70	$50.70
854G			$64.22	$64.22
Motor Graders				
120H	$4,240.00	$106.00	$41.60	$147.60
14G/H	$6,045.00	$151.13	$60.98	$212.11
16G/H	N/A	$0.00	$76.22	$76.22
24M			$52.39	$52.39
Track Excavators				
312C	$2,015.00	$50.38	$16.98	$67.36
320C	$2,750.00	$68.75	$28.35	$97.10
325C	$3,565.00	$89.13	$35.66	$124.78
330C	$4,920.00	$123.00	$43.20	$166.20
345B	$6,490.00	$162.25	$53.93	$216.18
365BL			$44.62	$44.62
385BL	$9,965.00	$249.13	$84.28	$333.41
Scrapers				
631G	$7,845.00	$196.13	$90.93	$287.06
637G	N/A	$0.00	$80.28	$80.28
Wheeled Loaders				
924G	$1,930.00	$48.25	$25.62	$73.87
928G	$2,060.00	$51.50	$28.52	$80.02
950G	$3,310.00	$82.75	$37.34	$120.09
966G	$4,880.00	$122.00	$49.29	$171.29
972G	$6,280.00	$157.00	$55.48	$212.48
980G	$6,280.00	$157.00	$62.03	$219.03
988G	$10,390.00	$259.75	$88.81	$348.56
990			$57.46	$57.46
992G	N/A	$0.00	$77.74	$77.74
994D			$121.68	$121.68
L2350			$223.08	$223.08
Shovels				
PC2000			$125.06	$125.06
PC3000			$169.00	$169.00
PC4000			$236.60	$236.60
PC5500			$402.22	$402.22
PC8000			$503.62	$503.62
Hydraulic Hammers				
H-120 (fits 325)	$2,505.00	$62.63	$7.00	$69.63
H-160 (fits 345)	$4,920.00	$123.00	$13.68	$136.68
H-180 (fits 365/385)	$6,490.00	$162.25	$16.21	$178.46
Demolition Shears				
S340 (fits 322/325/330)				$0.00
S365 (fits 330/345)				$0.00
S390 (fits 365/385)				$0.00
Demolition Grapples				
G315 (fits 322/325)				$0.00
G320 (fits 325/330)				$0.00
G330 (fits 345/365)				$0.00
Other Equipment				
420D 4WD Backhoe	$1,190.00	$29.75	$21.07	$50.82
428D 4WD Backhoe	$1,485.00	$37.13	$20.91	$58.03
CS533E Vibratory Roller	$1,375.00	$34.38	$12.68	$47.05
CS633E Vibratory Roller			$16.06	$16.06
CP533E Sheepsfoot Compactor			$12.68	$12.68
CP633E Sheepsfoot Compactor			$16.06	$16.06
Light Truck - 1.5 Ton	$1,679.00	$41.98	$5.42	$47.40
Supervisor's Truck	$886.00	$22.15	$3.73	$25.88
Flatbed Truck	$1,679.00	$41.98	$17.84	$59.81
Air Compressor + tools	$1,337.00	$33.43	$3.38	$36.81
Welding Equipment	$727.00	$18.18	$6.76	$24.94
Heavy Duty Drill Rig	$5,745.00	$143.63	$40.56	$184.19
Pump (plugging) Drill Rig	$5,745.00	$143.63	$33.80	$177.43
Concrete Pump	$3,735.00	$93.38	$33.80	$127.18
Gas Engine Vibrator	$137.40	$3.44	$3.38	$6.82
Generator 5KW	$384.80	$9.62	$5.07	$14.69
HDEP Welder (pipe or liner)	$1,504.00	$37.60	$6.76	$44.36
5 Ton Crane	$1,716.00	$42.90	$10.14	$53.04
20 Ton Crane	$10,330.00	$258.25	$13.52	$271.77
50 Ton Crane	$10,330.00	$258.25	$15.89	$274.14
120 Ton Crane			$17.58	$17.58
Trucks				
725	$6,700.00	$167.50	$49.42	$216.92
730	$6,700.00	$167.50	$51.11	$218.61
735	$6,700.00	$167.50	$64.55	$232.05
740	$6,700.00	$167.50	$66.73	$234.23
769D	N/A	$0.00	$31.27	$31.27
773E	N/A	$0.00	$39.72	$39.72
777D	N/A	$0.00	$56.62	$56.62
785C			$81.97	$81.97
793C			$141.12	$141.12
797B			$198.58	$198.58
613E (5,000 gal) Water Wagon	$2,801.24	$70.03	$31.83	$101.86
621E (8,000 gal) Water Wagon	$4,740.27	$118.51	$53.37	$171.87
777D Water Truck			$56.62	$56.62
785C Water Truck			$81.97	$81.97
Dump Truck (10-12 yd^3)	$3,795.00	$94.88	$18.70	$113.57

NOTES:

(1) Power Equipment Source:	
(2) Power Equipment Type:	Catepillar model or equivalent, LeTourneau loader, Komatsu shovels
(3) Drilling Equipment Source:	RS Means Heavy Construction (2022 Q2)
(4) Other Equipment Source:	RS Means Heavy Construction (2022 Q2)
(5) Drill rig includes support (pipe) truck	

Closure Cost Estimate
Equipment Costs

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice or Exploration
Date of Submittal: June 2023
File Name: Att_09_REX_NOI_Amend_SRCE_Ver_1_4_1_017_NVb_20230614.xlsm
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FUEL, LUBE AND WEAR CALCULATIONS

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	$9.82		$6.46	6.25	$21.13	$37.41
D6R w/ Winch				6.25	$21.13	$21.13
D7R	$9.82		$6.46	7.50	$25.35	$41.63
D8R	$10.36		$12.55	9.75	$32.96	$55.87
D9R	$11.82		$19.52	14.25	$48.17	$79.51
D10R	$13.91		$27.32	18.00	$60.84	$102.07
D11R	N/A		N/A	26.50	$89.57	$89.57
Wheeled Dozers						
824G		$0.00		10.75	$36.34	$36.34
834G		$0.00		12.60	$42.59	$42.59
844		$0.00		15.00	$50.70	$50.70
854G		$0.00		19.00	$64.22	$64.22
Motor Graders						
120H	$5.97	$8.67	$13.44	4.00	$13.52	$41.60
14G/H	$7.44	$13.00	$19.42	6.25	$21.13	$60.98
16G/H	$7.78	$16.57	$26.52	7.50	$25.35	$76.22
24M				15.50	$52.39	$52.39
Track Excavators						
312C	$5.61		$5.02	1.88	$6.35	$16.98
320C	$5.99		$5.80	4.90	$16.56	$28.35
325C	$6.03		$7.32	6.60	$22.31	$35.66
330C	$7.43		$8.05	8.20	$27.72	$43.20
345B	$9.86		$8.24	10.60	$35.83	$53.93
365BL				13.20	$44.62	$44.62
385BL	$8.27		$16.86	17.50	$59.15	$84.28
Scrapers						
631G	$9.97	$19.69	$10.57	15.00	$50.70	$90.93
637G	N/A	$0.00	N/A	23.75	$80.28	$80.28
Wheeled Loaders						
924G	$4.96	$5.60	$5.76	2.75	$9.30	$25.62
928G	$5.33	$5.60	$5.76	3.50	$11.83	$28.52
950G	$6.63	$6.47	$10.72	4.00	$13.52	$37.34
966G	$6.91	$9.49	$13.45	5.75	$19.44	$49.29
972G	$7.82	$9.49	$17.04	6.25	$21.13	$55.48
980G	$7.82	$11.82	$17.04	7.50	$25.35	$62.03
988G	$14.64	$15.01	$18.26	12.10	$40.90	$88.81
990				17.00	$57.46	$57.46
992G	N/A	$0.00	N/A	23.00	$77.74	$77.74
994D				36.00	$121.68	$121.68
L2350				66.00	$223.08	$223.08
Shovels						
PC2000				37.00	$125.06	$125.06
PC3000				50.00	$169.00	$169.00
PC4000				70.00	$236.60	$236.60
PC5500				119.00	$402.22	$402.22
PC8000				149.00	$503.62	$503.62
Hydraulic Hammers						
H-120 (fits 325)	N/A		$7.00			$7.00
H-160 (fits 345)	N/A		$13.68			$13.68
H-180 (fits 365/385)	N/A		$16.21			$16.21
Demolition Shears						
S340 (fits 322/325/330)	N/A					$0.00
S365 (fits 330/345)	N/A					$0.00
S390 (fits 365/385)	N/A					$0.00
Demolition Grapples						
G315 (fits 322/325)	N/A					$0.00
G320 (fits 325/330)	N/A					$0.00
G330 (fits 345/365)	N/A					$0.00
Other Equipment						
420D 4WD Backhoe	$5.52	$0.94	$4.47	3.00	$10.14	$21.07
428D 4WD Backhoe	$5.23	$0.94	$4.60	3.00	$10.14	$20.91
CS533E Vibratory Roller			N/A	3.75	$12.68	$12.68
CS633E Vibratory Roller			N/A	4.75	$16.06	$16.06
CP533E Sheepsfoot Compactor			N/A	3.75	$12.68	$12.68
CP633E Sheepsfoot Compactor			N/A	4.75	$16.06	$16.06
Light Truck - 1.5 Ton		$0.35	N/A	1.50	$5.07	$5.42
Supervisor's Truck		$0.35	N/A	1.00	$3.38	$3.73
Flatbed Truck		$1.95	N/A	4.70	$15.89	$17.84
Air Compressor + tools			N/A	1.00	$3.38	$3.38
Welding Equipment			N/A	2.00	$6.76	$6.76
Heavy Duty Drill Rig			N/A	12.00	$40.56	$40.56
Pump (plugging) Drill Rig			N/A	10.00	$33.80	$33.80
Concrete Pump			N/A	10.00	$33.80	$33.80
Gas Engine Vibrator			N/A	1.00	$3.38	$3.38
Generator 5KW			N/A	1.50	$5.07	$5.07
HDEP Welder (pipe or liner)			N/A	2.00	$6.76	$6.76
5 Ton Crane			N/A	3.00	$10.14	$10.14
20 Ton Crane			N/A	4.00	$13.52	$13.52
50 Ton Crane			N/A	4.70	$15.89	$15.89
120 Ton Crane			N/A	5.20	$17.58	$17.58
Trucks						
725	$10.98	$18.55	$4.01	4.70	$15.89	$49.42
730	$10.98	$18.55	$4.01	5.20	$17.58	$51.11
735	$10.98	$24.72	$4.01	7.35	$24.84	$64.55
740	$10.98	$26.90	$4.01	7.35	$24.84	$66.73
769D	N/A	$0.00	N/A	9.25	$31.27	$31.27
773E	N/A	$0.00	N/A	11.75	$39.72	$39.72
777D	N/A	$0.00	N/A	16.75	$56.62	$56.62
785C				24.25	$81.97	$81.97
793C				41.75	$141.12	$141.12
797B				58.75	$198.58	$198.58
613E (5,000 gal) Water Wagon	$6.59	$4.96		6.00	$20.28	$31.83
621E (8,000 gal) Water Wagon	$9.32	$7.71		10.75	$36.34	$53.37
777D Water Truck				16.75	$56.62	$56.62
785C Water Truck				24.25	$81.97	$81.97
Dump Truck (10-12 yd3) (5)	N/A	$1.12	N/A	5.20	$17.58	$18.70

Notes:

(1) PM Source:	Cashman Equipment Company (July 2022) unless noted
(2) Undercarriage Source:	Purcell Tire Quote: 2022
(3) G.E.T. Source:	Cashman Equipment Company (July 2022) unless noted
(4) Fuel Use Source:	Caterpillar Handbook, Edition 35, Ch. 20; or estimated average for smaller vehicles
(5) Dump Truck Oper. Cost Source:	Means Heavy Construction (2008)

Closure Cost Estimate
Equipment Costs

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TIRE COST TABLES

Equipment	Tire Size	# of Tires Per Piece of Equipment	Cost Per Tire	Tire Cost (1)(2)	Life Expectency Hours (Low/Zone A) (3)	Tire Cost per Hour
Bulldozers						
D6R			N/A			
D6R w/ Winch			N/A			
D7R			N/A			
D8R			N/A			
D9R			N/A			
D10R			N/A			
D11R			N/A			
Wheeled Dozers						
824G	29.5R25	4		$0.00	3,500	$0.00
834G	35/65-R33	4		$0.00	3,500	$0.00
844	45/65-R39	4		$0.00	3,500	$0.00
854G	45/65-R45	4		$0.00	3,500	$0.00
Motor Graders						
120H	13PR24	6	$5,059.00	$30,354.00	3,500	$8.67
14G/H	20.5R25	6	$7,581.00	$45,486.00	3,500	$13.00
16G/H	23.5R25	6	$9,668.00	$58,008.00	3,500	$16.57
24M	23.5R25	6		$0.00	3,500	
Track Excavators						
312C			N/A			
320C			N/A			
325C			N/A			
330C			N/A			
345B			N/A			
365BL			N/A			
385BL			N/A			
Scrapers						
631G	37.25R35	4	$19,690.00	$78,760.00	4,000	$19.69
637G	37.25R35	4	N/A	$0.00	4,000	$0.00
Wheeled Loaders						
924G	17.5R25	4	$6,300.00	$25,200.00	4,500	$5.60
928G	17.5R25	4	$6,300.00	$25,200.00	4,500	$5.60
950G	26.5R25	4	$7,283.00	$29,132.00	4,500	$6.47
966G	26.5R25	4	$10,680.00	$42,720.00	4,500	$9.49
972G	26.5R25	4	$10,680.00	$42,720.00	4,500	$9.49
980G	29.5R25	4	$13,298.00	$53,192.00	4,500	$11.82
988G	35/65-33	4	$16,887.00	$67,548.00	4,500	$15.01
990	41.25/70-39	4		$0.00	4,500	
992G	45/65R45	4	N/A	$0.00	4,500	$0.00
994D	55/85R57	4		$0.00	4,500	
L2350	55/85R57	4		$0.00	4,500	
Shovels						
PC2000			N/A			
PC3000			N/A			
PC4000			N/A			
PC5500			N/A			
PC8000			N/A			
Hydraulic Hammers						
H-120 (fits 325)			N/A			
H-160 (fits 345)			N/A			
H-180 (fits 365/385)			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						
G315 (fits 322/325)			N/A			
G320 (fits 325/330)			N/A			
G330 (fits 345/365)			N/A			
Other Equipment						
420D 4WD Backhoe	340/80R18-19.5LR24	2	$1,409.50	$2,819.00	3,000	$0.94
428D 4WD Backhoe	340/80R18-16.9R28	2	$1,409.50	$2,819.00	3,000	$0.94
CS533E Vibratory Roller			N/A			
CS633E Vibratory Roller			N/A			
CP533E Sheepsfoot Compactor			N/A			
CP633E Sheepsfoot Compactor			N/A			
Light Truck - 1.5 Ton		4	266	$1,064.00	3,000	$0.35
Supervisor's Truck		4	266	$1,064.00	3,000	$0.35
Flatbed Truck		22	266	$5,852.00	3,000	$1.95
Air Compressor + tools			N/A			
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			
Gas Engine Vibrator			N/A			
Generator 5KW			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		6		$0.00	3,000	
120 Ton Crane		6		$0.00	3,000	
Trucks						
725	23.5R25	6	$6,182.00	$37,092.00	2,000	$18.55
730	23.5R25	6	$6,182.00	$37,092.00	2,000	$18.55
735	26.5R25	6	$8,239.00	$49,434.00	2,000	$24.72
740	29.5R25	6	$8,966.00	$53,796.00	2,000	$26.90
769D	18.00R33	6	N/A	$0.00	6,000	$0.00
773E	24.00R35	6	N/A	$0.00	5,000	$0.00
777D	27.00R49	6	N/A	$0.00	5,000	$0.00
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	$4.96
621E (8,000 gal) Water Wagon	33.25R29	6	$10,282.00	$61,692.00	8,000	$7.71
777D Water Truck	27.00R49	6		$0.00	5,000	
785C Water Truck	33.00R51	6		$0.00	4,000	
Dump Truck (10-12 yd3)		10	$672.00	$6,720.00	6,000	$1.12

Notes:

(1) Unit Cost Basis:	Cost per set
(2) Cost Basis:	Total cost for all required tires.
(3) Tire Cost Source:	Purcell Tire Quote: 2022
(4) Tire Wear Source:	Caterpillar Handbook, Edition 35; Ch. 20

Closure Cost Estimate
Material Costs

Project Name: Amended REX Exploration NOI P-2022-019 Montrose County CO- Notice
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Model Version: Version 1.4.1
Cost Data: User Data
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Cost Estimate Type: Surety **Cost Basis: N. Nevada Notice Level**

Revegetation Materials

Seed Mixes

Seed Mix	Description		Cost/Acre
None			
Mix 1	Basins		$302.50
Mix 2	Low Hills		$332.75
Mix 3	Uplands		$363.00
Mix 4	Riparian or Custom		$393.25
User Mix 1	**West End Seed Mix CO**		**$586.50**
User Mix 2			
User Mix 3			
User Mix 4			
	Cost/lb	**lbs/Acre**	**Cost/Acre**
User Mix 5 (from Seed Mix sheet)	$0.00	$25.97	$0.00
Notes:			
	West End Seed Mix CO quote from Granite Seed		
	January 6, 2023 email		

Mulch

Item	Cost/lb	lbs/Acre	Cost/Acre
None			
Straw Mulch	$0.20		
Hydro Mulch	$0.36		
Timber Mulch			
Notes:			
	Granite Seed $500 per Ton in 50 lb bag Wood (Hydro) Mulch (2022)		

Closure Cost Estimate
Material Costs

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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 Supply $33.30 per 50 lb. bag 15-15-15 (Adjusted from 2021 q		

Closure Cost Estimate
Material Costs

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Cost Estimate Type: Surety **Cost Basis: N. Nevada Notice Level**

Well Abandonment Materials

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

(1) Jentech Drilling Supply quote (2022) Type I,II Cement at $15.25 per 94 lb. bag
(2) Jentech Drilling Supply (2022) 3/8 in. Chunk Bentonite Hole Plug at $9.95 per 50 lb. bag (5.75 cf/bag 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.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	
	ea.	

(1) WET Lab, Reno, Nevada (2022)
Well pump and Sample supply costs adjusted to 2022.
Original source unknown.

Closure Cost Estimate
Material Costs

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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 Service , average annual cost including freight to Nevada (2022).

Source: Federal Government Vehicle Allowance Rate 2022

Source: NV Energy (2022) $0.08974

ion

Revegetation Method				
Slopes				
Disturbance Type	**Seed Application Method**	**Labor** Cost/Acre	**Equipment** Cost/Acre	**Total** 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 Undifferentiated				
Disturbance Type	**Seed Application Method**	**Labor** Cost/Acre	**Equipment** Cost/Acre	**Total** 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

Closure Cost Estimate
Misc. Unit Costs

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Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Revegetation

	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 (June 2022).									
(2) Shrub Source:										
(3) Tree Source:										
(4) Cactus Source:										

Building and Wall Demolition

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 Costs, Equipment Costs and Material Costs spreadsheets

	Means Number	Unit	Crew	Daily Output	Daily Output User	Labor	Equipment	Premium	Total	Notes
Building Demolition										
Lg. steel	02220-110-0012	C.F.	B-8	21500		$0.16	$0.22		$0.38	
Lg. concrete	02220-110-0050	C.F.	B-8	15300		$0.22	$0.30		$0.52	
Lg. masonry	02220-110-0080	C.F.	B-8	20100		$0.17	$0.23		$0.40	
Lg. mixed	02220-110-0100	C.F.	B-8	20100		$0.17	$0.23		$0.40	
Sm. steel	02220-110-0500	C.F.	B-3	14800		$0.19	$0.17		$0.36	
Sm. concrete	02220-110-0600	C.F.	B-3	11300		$0.25	$0.22		$0.47	
Sm. masonry	02220-110-0650	C.F.	B-3	14800		$0.19	$0.17		$0.36	
Sm. wood	02220-110-0700	C.F.	B-3	14800		$0.19	$0.17		$0.36	
Wall Demolition										
Block 4 in (100 mm) thick	02220-130-2000	S.F.	1 Clab	180		$2.23	$0.00	20%	$2.68	
Block 6 in (150 mm) thick	02220-130-2040	S.F.	1 Clab	170		$2.36	$0.00	20%	$2.83	
Block 8 in (200 mm) thick	02220-130-2080	S.F.	1 Clab	150		$2.67	$0.00	20%	$3.20	
Block 12 in (300 mm) thick	02220-130-2100	S.F.	1 Clab	150		$2.67	$0.00	20%	$3.20	
Conc 6 in (150 mm) thick	02220-130-2400	S.F.	B-9	160		$18.13	$1.84	10%	$21.97	
Conc 8 in (200 mm) thick	02220-130-2420	S.F.	B-9	140		$20.71	$2.10	10%	$25.09	
Conc 10 in (250 mm) thick	02220-130-2440	S.F.	B-9	120		$24.17	$2.45	10%	$29.28	
Conc 12 in (300 mm) thick	02220-130-2500	S.F.	B-9	100		$29.00	$2.94	10%	$35.13	

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Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

Waste Disposal

Unit rates from Means Heavy Construction 2006 Edition by permission of R.S.Means/Reed Construction Data .

	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment		Total	Notes
Rubbish 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:										
Dumpster Cost Source	R.S. Means Heavy Construction (2022 Q2).									
Dumpster Disposal Fee Source:	R.S. Means Heavy Construction (2022 Q2).									
Hazardous Material Handling - Solids (+ Liquids in drums)										
Pickup fees 55 gal (200 L). drums	02110-300-1100	ea.			$280.00				$280.00	
Bulk material (average)	02110-300-1220/1230	ton			$456.00				$456.00	
Transport - truck load (80 drums, 25 cy (m3), 18 tons)	02110-300-1260/1270	mile			$6.58				$6.58	
Dump site solid disposal fee	02110-300-6000/6020	ton			$322.00				$322.00	
NOTES:										
Solid Handling Cost Source	R.S. Means Heavy Construction (2022 Q2).									
Solid Disposal Fee Source:	2022 Q2 R.S. Means Heavy Const. ave. 02 81									
Hazardous Material Handling - Liquids										
Vacuum Truck Pickup (2200 gal/8300 L)	02110-300-3110	hr.			$164.00				$164.00	
Vacuum Truck Pickup (5000 gal/19000 L)	02110-300-3120	hr.			$238.00				$238.00	
Dump site liquid disposal fee	02110-300-6000/6020	ton			$322.00				$322.00	
NOTES:										
Liquid Handling Cost Source	R.S. Means Heavy Construction (2022 Q2).									
Liquid Disposal Fee Source:	2022 Q2 R.S. Means Heavy Const. ave. 02 81									
Hydrocarbon Contaminated Soils (HCS)										
Insitu Biotreatment	02115-200-2020/2021	C.Y.			$21.23				$21.23	
HCS disposal fee	02115-200-2050/2055	C.Y.			$311.50				$311.50	
NOTES:										
Insitu Treatement Cost Source	2022 Q2 R.S. Means Heavy Const., ave. 02 65									
HCS Disposal Fee Source:	2022 Q2 R.S. Means Heavy Const., ave. 02 65									

Concrete Structure Installation

Weekly dumpster rental rates from Means Heavy Construction 2005 Edition with permission by R.S.Means/Reed Construction Data .
Weekly dumpster rental rates include haul to off-site disposal site and disposal fees

	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Reinforced Concrete Bulkheads and Shaft Covers										
Grade walls - 15 in (400mm) thick, 8 ft (2.5m) high	03310-240-4300	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
Bat Gate/Foam Plug Installation										
Bat Gate (5)		ea.			$3,684.51					materials $/ea. Installed
Culvert Gate (5)		ea.			$7,369.01					materials $/ea. Installed
Adit Foam Plug (6)		ea./C.Y.			$368.45					materials $/cy placed
Production Opening Foam Plug (6)		ea./C.Y.			$368.45					materials $/cy placed
NOTES:										
(5) Bat Gate Source:	NV BLM, 2/2006: 8 hr + 1hr mob/demob + 1hr setup per gate (adjusted to 2022)									
(6) Foam Plug Source:	NV BLM, 2/2006: 8 hr+ 1hr mob/demob + 1hr setup per adit; 16 hrs per production opening (adjusted to 2022)									

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Misc. Linear Projects

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

Closure Cost Estimate
Misc. Unit Costs

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Drain Rock Preparation										
Crushing		C.Y.							$0.50	
Screening		C.Y.							$0.50	
TOTAL									$1.00	
Misc.										
Backhoe work	02210-700-0120	C.Y.	B-11M	28		$20.65	$14.52		$35.17	
Powerline and Transformer Removal										
Single Pole		mile							$51,208.05	
Double Pole		mile							$58,523.49	
Transformer (9)		ea.							$64,549.13	
NOTES:										
(7) Single Pole Source:	NV Energy estimate (2009) Adjusted to 2022									
(8) Double Pole Source:	NV Energy estimate (2009) Adjusted to 2022									
(9) Transformer Source:	NV Energy estimate (2018) adjusted to 2022									

Erosion and Sedimentation Control

Hourly productivity rates and crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data .
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	Means Number	Unit	Crew	Daily Output	Materials	Labor	Equipment	Premium	Total	Notes
Rip-Rap & Rock Lining										
Rip-Rap 3/8 to 1/4 CY (m3) pieces, grouted	02370-450-0110	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 grout	02370-450-0200	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	02370-450-0400	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	02370-450-0500	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	02370-450-0200	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	02370-450-0200	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				$240.00	
Toilet Portable, chemical	1590-400-6410	mo.			$229.40				$229.40	
TOTAL					$469.40				$469.40	

Pump and Casing Removal

	Pump Type	Measurement	Unit				Labor	Equipment		Total	Notes
Pump Removal											
Submersible		ft to pump	L.F.				$12.45	$29.32		$41.77	
Line Shaft		ft to pump	L.F.				$12.45	$29.32		$41.77	
NOTES:											
(10) Pump Removal Source:		Boart Longyear Quote: 2022									

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EQUIPMENT FLEETS

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
RIPPING					
Rip road					
Waste rock dumps, heaps, tails - rip flat surfaces					
Surface preparation					
Scarify					
Small Dozer w/ multi-shank					
D7R		1	$168.88	$71.22	$240.10
Totals			$168.88	$71.22	$240.10
Medium Dozer w/ multi-shank					
D9R		1	$384.88	$71.22	$456.10
Totals			$384.88	$71.22	$456.10
Large Dozer w/ multi-shank					
D10R		1	$524.07	$71.22	$595.29
Totals			$524.07	$71.22	$595.29
Grader w/ multi-shank					
16G/H		1	$76.22	$72.28	$148.50
Totals			$76.22	$72.28	$148.50
GRADING					
Grading storage and structure areas					
Grading waste rock dumps and heaps					
Grading landfills					
Constructing pit safety berms					
Small Dozer Fleet					
D7R		1	$168.88	$71.22	$240.10
Totals			$168.88	$71.22	$240.10
Medium Dozer Fleet					
D9R		1	$384.88	$71.22	$456.10
Totals			$384.88	$71.22	$456.10
Large Dozer Fleet					
D10R		1	$524.07	$71.22	$595.29
Totals			$524.07	$71.22	$595.29
EXPLORATION GRADING					
Backfilling and grading exploration trenches					
Grading flat exploration roads					
Small Dozer Fleet					
D6R		1	$149.91	$71.22	$221.13
Totals			$149.91	$71.22	$221.13
Medium Dozer Fleet					
D7R		1	$168.88	$71.22	$240.10
Totals			$168.88	$71.22	$240.10
Large Dozer Fleet					
D8R		1	$283.87	$71.22	$355.09
Totals			$283.87	$71.22	$355.09

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EQUIPMENT FLEETS

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
EXCAVATING					
Earthen Berms					
Diversion ditch excavation and backfill					
Underground openings backfill - excavate and place					
Pit berm construction (excavator option)					
Small Excavator					
325C		1	$124.78	$72.28	$197.06
Totals			$124.78	$72.28	$197.06
Medium Excavator					
345B		1	$216.18	$72.28	$288.46
Totals			$216.18	$72.28	$288.46
Large Excavator					
385BL		1	$333.41	$72.28	$405.69
Totals			$333.41	$72.28	$405.69
EXCAVATE AND RECONTOUR					
Recontour large roads (haul roads, access roads, etc.)					
Ponds - Excavate and pull liner and bury					
Small Excavator + Dozer					
325C		1	$124.78	$72.28	$197.06
D7R		1	$168.88	$71.22	$240.10
Total Equipment			$293.66	$143.50	$437.16
Medium Excavator + Dozer					
345B		1	$216.18	$72.28	$288.46
D9R		1	$384.88	$71.22	$456.10
Totals			$601.06	$143.50	$744.56
Large Excavator + Dozer					
385BL		1	$333.41	$72.28	$405.69
D10R		1	$524.07	$71.22	$595.29
Totals			$857.48	$143.50	$1,000.98
EXPLORATION ROAD/PAD RECONTOUR					
Recontour small roads (exploration roads, service roads, etc.)					
Cut and Fill reclamation on slopes					
Drill pad recountour					
Drill sump backfill					
Small Dozer					
D6R		1	$149.91	$71.22	$221.13
Totals			$149.91	$71.22	$221.13
Large Dozer					
D8R		1	$283.87	$71.22	$355.09
Totals			$283.87	$71.22	$355.09
Grader					
14G/H		1	$212.11	$72.28	$284.39
Totals			$212.11	$72.28	$284.39
Small Excavator					
320C		1	$97.10	$72.28	$169.38
Totals			$97.10	$72.28	$169.38
Medium Excavator					
325C		1	$124.78	$72.28	$197.06
Totals			$124.78	$72.28	$197.06

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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					
Rock placement					
Haul overburden for backfill					
Haul borrow for backfill					
Haul cover or growth media					
Small Truck/Loader Fleet					
725		Calculated	$216.92	$43.14	$260.06
966G	**Loader**	1	$171.29	$72.28	$243.57
D7R		1	$168.88	$71.22	$240.10
Totals			$557.09	$186.64	$743.73
Medium Truck/Loader Fleet					
740		Calculated	$234.23	$43.14	$277.37
988G	**Loader**	1	$348.56	$72.28	$420.84
D8R		1	$283.87	$71.22	$355.09
Totals			$866.66	$186.64	$1,053.30
Large Truck/Loader Fleet					
769D		Calculated	$31.27	$43.14	$74.41
988G	**Loader**	1	$348.56	$72.28	$420.84
D7R		1	$168.88	$71.22	$240.10
Totals			$548.71	$186.64	$735.35
Extra Large Truck/Loader Fleet					
777D		Calculated	$56.62	$43.14	$99.76
992G	**Loader**	1	$77.74	$72.28	$150.02
D7R		1	$168.88	$71.22	$240.10
Totals			$303.24	$186.64	$489.88
Scraper/Dozer Fleet					
631G		Calculated	$287.06	$71.22	$358.28
D10R		1	$524.07	$71.22	$595.29
D7R		1	$168.88	$71.22	$240.10
Totals			$980.01	$213.66	$1,193.67
Tandem Scraper Fleet					
637G		2	$80.28	$72.28	$152.56
D7R		1	$168.88	$71.22	$240.10
Totals			$249.16	$143.50	$392.66
MISC. LOAD AND HAUL AND EARTHWORKS					
Sludge removal					
Drainage controls					
Misc. - Cat 325B Excavator / 10-12 yd3 Truck					
325C		1	$124.78	$72.28	$197.06
Dump Truck (10-12 yd3)		1	$113.57	$43.14	$156.71
Totals			$238.35	$115.42	$353.77
Misc. - Cat D9R Dozer/ Loader (5 yd3) / 10-12 yd3 Truck					
D9R		1	$384.88	$71.22	$456.10
966G		1	$171.29	$72.28	$243.57
Dump Truck (10-12 yd3)		1	$113.57	$43.14	$156.71
Totals			$669.74	$186.64	$856.38
Misc. - Cat D6 Dozer / Cat 966 Loader / 10-12 yd3 Truck					
D6R		1	$149.91	$71.22	$221.13
966G		1	$171.29	$72.28	$243.57
Dump Truck (10-12 yd3)		1	$113.57	$43.14	$156.71
Totals			$434.77	$186.64	$621.41

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Cost Estimate Type: Surety Cost Basis: N. Nevada Notice Level

EQUIPMENT FLEETS

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
CONCRETE BREAKING					
Slab demolition					
Footing demolition					
Wall demolition					
Small - Cat 325B Excavator w/ H140D s Hammer					
325C		1	$124.78	$72.28	$197.06
H-120 (fits 325)		1	$69.63	$0.00	$69.63
D9R		1	$384.88	$71.22	$456.10
Totals			$579.29	$143.50	$722.79
Medium - Cat 345B Excavator w/ H180D s Hammer					
345B		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 Excavator w/ H180D s Hammer					
385BL		1	$333.41	$72.28	$405.69
H-180 (fits 365/385)		1	$178.46	$0.00	$178.46
D9R		1	$384.88	$71.22	$456.10
Totals			$896.75	$143.50	$1,040.25
DRILL HOLE ABANDONMENT					
Drill Hole - Grout or Cement					
Pump (plugging) Drill Rig		1	$177.43	$71.22	$248.65
Driller's Helper		2	$0.00	$100.82	$100.82
Totals			$177.43	$172.04	$349.47
Drill Hole - Inert Media (Means Crew B-11M+ 1 Laborer)					
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
General Laborer		1	$0.00	$50.10	$50.10
Totals			$50.82	$122.38	$173.20
Drill Hole - Casing Perforation or Removal					
Heavy Duty Drill Rig		1	$184.19	$71.22	$255.41
Driller's Helper		2	$0.00	$100.82	$100.82
Totals			$184.19	$172.04	$356.23
MAINTENANCE FLEET					
Road Grading, Dust Suppression, Clean Up					
Maintenance - Small Water 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 Water Truck and Cat 16G Grader					
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 Water 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

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EQUIPMENT FLEETS

ACTIVITY AND FLEET		Standard Crew Size	EQUIPMENT UNIT COST (Hourly)	TOTAL LABOR UNIT COST (Hourly)	TOTAL COST (Hourly)
MEANS CREW DEFINITIONS					
Crew composition from Means Heavy Construction 2005 Edition by permission of R.S.Means/Reed Construction Data . For use with misc. unit costs where Means is the source for productivity					
1 Clab - Seedling Planting/Block Wall Demolition					
General Laborer		1	$0.00	$50.10	$50.10
Totals			$0.00	$50.10	$50.10
2 Clab - Barbed Wire/Wood Fence Removal, Drainpipe Installation, Pumping, Evaporation					
General Laborer		2	$0.00	$100.20	$100.20
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$47.40	$100.20	$147.60
2 Clab + Excavator - Pond Liner Cut and Fold					
General Laborer		2	$0.00	$100.20	$100.20
325C		1	$124.78	$72.28	$197.06
Totals			$124.78	$172.48	$297.26
2 Clab + Welder - Bat Gates					
General Laborer		2	$0.00	$100.20	$100.20
Welding Equipment		1	$24.94	$72.28	$97.22
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$72.34	$172.48	$244.82
3 Clab - Foam Adit Plugs					
General Laborer		2	$0.00	$100.20	$100.20
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$98.22	$172.48	$270.70
3 Clab + Welder - Culvert Bat Gate					
General Laborer		2	$0.00	$100.20	$100.20
Welding Equipment		1	$24.94	$72.28	$97.22
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$123.16	$244.76	$367.92
3 Clab D - 3 Laborers + Foreman - Decontamination					
General Laborer		3	$0.00	$150.30	$150.30
Foreman		1	$0.00	$93.43	$93.43
Supervisor's Truck		1	$25.88	$0.00	$25.88
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$73.28	$243.73	$317.01
3 SKWK - Liner Installation					
Skilled Laborer		3	$0.00	$152.16	$152.16
HDEP Welder (pipe or liner)		1	$44.36	$0.00	$44.36
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
Totals			$95.18	$224.44	$319.62

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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-3 - Small Building Demoltion					
LABOR					
General Laborer		2	$0.00	$100.20	$100.20
Foreman		1	$0.00	$93.43	$93.43
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
EQUIPMENT					
928G		1	$80.02	$71.22	$151.24
Dump Truck (10-12 yd3)		2	$227.14	$86.28	$313.42
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
Totals			$307.16	$351.13	$658.29
B-6 - Chain Link Fence/Culvert Removal					
General Laborer		2	$0.00	$100.20	$100.20
928G		1	$80.02	$71.22	$151.24
Totals			$80.02	$171.42	$251.44
B-8 - Large Building Demolition					
LABOR					
General Laborer		2	$0.00	$100.20	$100.20
Foreman		1	$0.00	$93.43	$93.43
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
EQUIPMENT					
928G		1	$80.02	$71.22	$151.24
20 Ton Crane		1	$271.77	$72.28	$344.05
Dump Truck (10-12 yd3)		2	$227.14	$86.28	$313.42
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
			$0.00		$0.00
Totals			$578.93	$423.41	$1,002.34
B-9 - Concrete Wall Demolition					
General Laborer		4	$0.00	$200.40	$200.40
Foreman		1	$0.00	$93.43	$93.43
Air Compressor + tools			$36.81	$68.68	$105.49
Totals			$36.81	$362.51	$399.32

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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-10Y - General Compaction					
General Laborer		1	$0.00	$50.10	$50.10
CS533E Vibratory Roller		1	$47.05	$70.49	$117.54
Totals			$47.05	$120.59	$167.64
B-11L - Fine Grading for Evaporation Pond Liner Base					
General Laborer		1	$0.00	$50.10	$50.10
14G/H		1	$212.11	$72.28	$284.39
Totals			$212.11	$122.38	$334.49
B-11M - Backhoe Work					
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
Totals			$50.82	$72.28	$123.10
B-12G - Rip-Rap Machine Placed (Modified)					
966G		1	$171.29	$72.28	$243.57
325C		1	$124.78	$72.28	$197.06
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$343.47	$144.56	$488.03
B-13 - Grouted Rip-Rap & Gabion Baskets					
General Laborer		4	$0.00	$200.40	$200.40
Foreman		1	$0.00	$93.43	$93.43
20 Ton Crane		1	$271.77	$72.28	$344.05
Totals			$271.77	$366.11	$637.88
B-14 PVC Drain Pipe Installation					
Foreman		1	$0.00	$93.43	$93.43
General Laborer		4	$0.00	$200.40	$200.40
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$98.22	$366.11	$464.33
B-20 - Remove Pipelines					
Foreman		1	$0.00	$93.43	$93.43
Skilled Laborer		1	$0.00	$50.72	$50.72
General Laborer		1	$0.00	$50.10	$50.10
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$47.40	$194.25	$241.65
B-22A - HDEP Installation - Pipe or Liner					
Skilled Laborer		1	$0.00	$50.72	$50.72
General Laborer		2	$0.00	$100.20	$100.20
D7R		1	$168.88	$71.22	$240.10
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
420D 4WD Backhoe		1	$50.82	$72.28	$123.10
Generator 5KW		1	$14.69	$0.00	$14.69
HDEP Welder (pipe or liner)		1	$44.36	$0.00	$44.36
Totals			$326.15	$294.42	$620.57
B-80A - Install Barbed Wire Fence					
General Laborer		3	$0.00	$150.30	$150.30
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$47.40	$150.30	$197.70

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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 Link Fence (Flatbed truck has small crane)					
General Laborer		3	$0.00	$150.30	$150.30
Light Truck - 1.5 Ton		1	$47.40	$0.00	$47.40
Totals			$47.40	$150.30	$197.70
C-14B - Elevated Concrete Slabs (Reinforced Concrete Shaft Covers)					
Foreman		1	$0.00	$93.43	$93.43
Supervisor's Truck		1	$25.88	$0.00	$25.88
Carpenter		16	$0.00	$959.20	$959.20
General Laborer		2	$0.00	$100.20	$100.20
Rodmen (reinforcing concrete)		4	$0.00	$200.40	$200.40
Cement finisher		2	$0.00	$100.82	$100.82
Gas Engine Vibrator		1	$6.82	$70.49	$77.31
Concrete Pump		1	$127.18	$0.00	$127.18
Totals			$159.88	$1,524.54	$1,684.42
C-14D - Concrete Walls Formed in Place (Reinforced Concrete Adit Bulkheads)					
Foreman		1	$0.00	$93.43	$93.43
Supervisor's Truck		1	$25.88	$0.00	$25.88
Carpenter		18	$0.00	$1,079.10	$1,079.10
General Laborer		2	$0.00	$100.20	$100.20
Rodmen (reinforcing concrete)		2	$0.00	$100.20	$100.20
Cement finisher		1	$0.00	$50.41	$50.41
Gas Engine Vibrator		1	$6.82	$70.49	$77.31
Concrete Pump		1	$127.18	$0.00	$127.18
Totals			$159.88	$1,493.83	$1,653.71

Productivity - Bulldozers

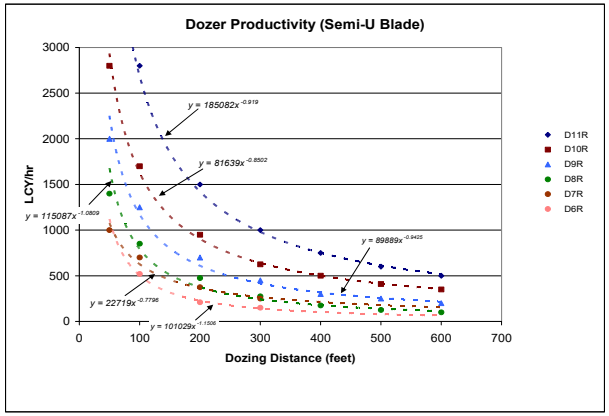
Dozer Specifications						
Description	**D11R**	**D10R**	**D9R**	**D8R**	**D7R**	**D6R**
Blade Width (SU) (ft)	18.33	15.92	14.17	12.92	12.08	10.67
Shank Guage (3 shanks) (ft)	9.83	8.67	7.67	7.08	6.5	6.5
Pocket Spacing (ft)	4.75	4.33	3.87	3.58	3.25	3.25
Ripping Width (Ripper + 1 Pocket) (ft)	14.58	13	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

Source: Caterpillar Performance Handbook Edition 35

Dozer Productivity vs. Grading Distance						
Average Dozing Distance (feet)	**Production (LCY/hr)**					
	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		

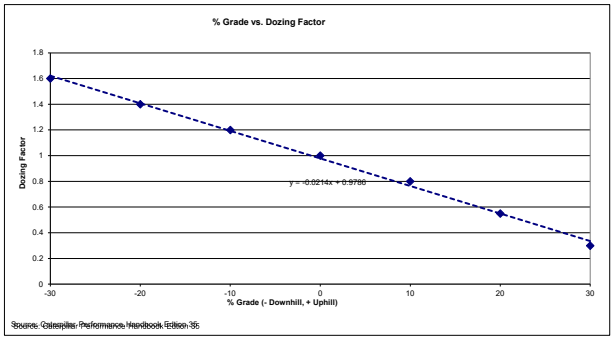
Source: Caterpillar Performance Handbook Edition 35

dozer productivity = k x Dozing Distance^p (see graph)						
k =	185082	81639	89889	115087	22719	101029
p =	-0.919	-0.8502	-0.9425	-1.0809	-0.7796	-1.1506



Productivity - Bulldozers (cont.)

% Grade vs. Dozing Factor	
% Grade	**Dozing Factor**
-30	1.6
-20	1.4
-10	1.2
0	1
10	0.8
20	0.55
30	0.3
Source: Caterpillar Performance Handbook Edition 35	
% Grade Dozing Factor = -0.0214x + 0.9786 (see graph)	



Job Condition Correction Factors - Bulldozers	
OPERATOR	
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
(1) Selected in facility worksheets. Other factors included as standard factors. Source: Caterpillar Performance Handbook Edition 35	

Material Densities(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: Caterpillar Performance Handbook Edition 35		

Note: uses Sand & Gravel - Dry from Caterpillar Handbook

Productivity - Scrapers

Scraper Specifications		
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 load or undulating, maintained fairly regularly, watered

Source: Caterpillar Performance Handbook Edition 35

Weight of Materials			Downhill Scraper Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)											
			631G						637G PP					
Material	**lb/cy**	**Scraper Load lb**	**Loaded Weight (lbs)**	**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 Performance Handbook Edition 34

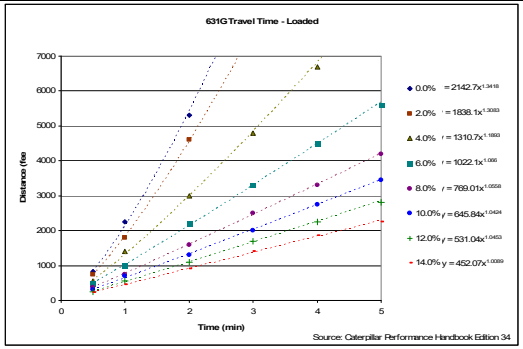
Productivity - Scrapers (cont.)

631G Scraper Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	825	2,250	5,300				2142.7	1.3418
2	750	1,800	4,600				1838.1	1.3083
4	550	1,400	3,000	4,800	6,700		1310.7	1.1893
6	490	1,000	2,200	3,300	4,500	5,600	1022.1	1.066
8	375	750	1,600	2,500	3,300	4,200	769.01	1.0558
10	300	700	1,300	2,000	2,750	3,450	645.84	1.0424
12	250	550	1,100	1,700	2,250	2,800	531.04	1.0453
14	225	450	900	1,400	1,850	2,250	452.07	1.0089

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

Source: Caterpillar Performance Handbook Edition 35



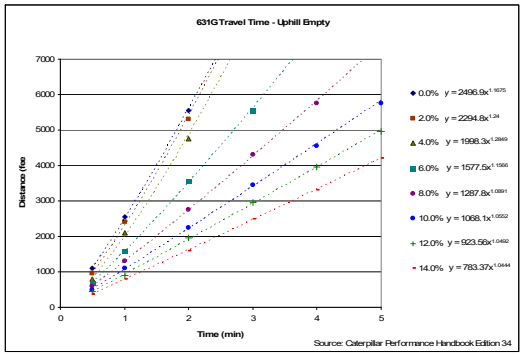
Source: Caterpillar Performance Handbook Edition 34

631G Scraper Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	1,100	2,550	5,550				2496.9	1.1675
2	950	2,400	5,300				2294.8	1.24
4	800	2,100	4,750				1998.3	1.2849
6	700	1,600	3,550	5,550			1557.5	1.1566
8	600	1,300	2,750	4,300	5,750		1287.8	1.0891
10	500	1,100	2,250	3,450	4,550	5,750	1068.1	1.0552
12	450	900	1,950	2,950	3,950	4,950	923.56	1.0492
14	375	800	1,600	2,500	3,300	4,200	783.37	1.0444

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

Source: Caterpillar Performance Handbook Edition 35



Source: Caterpillar Performance Handbook Edition 34

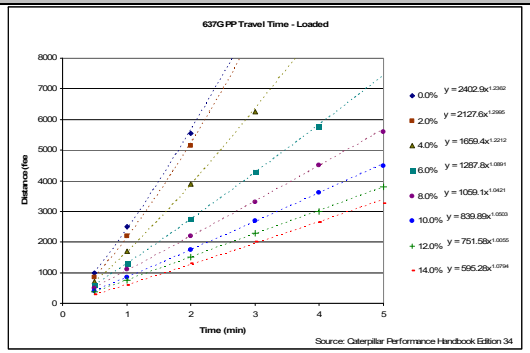
Productivity - Scrapers (cont.)

637G Push-Pull Scraper Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	1,000	2,500	5,550				2402.9	1.2362
2	850	2,200	5,150				2127.6	1.2995
4	700	1,700	3,900	6,250			1659.4	1.2212
6	600	1,300	2,750	4,300	5,750		1287.8	1.0891
8	500	1,100	2,200	3,300	4,500	5,600	1059.1	1.0421
10	400	850	1,750	2,700	3,600	4,475	839.89	1.0503
12	375	750	1,500	2,300	3,000	3,800	751.58	1.0055
14	275	600	1,300	2,000	2,650	3,250	595.28	1.0794

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

Source: Caterpillar Performance Handbook Edition 35

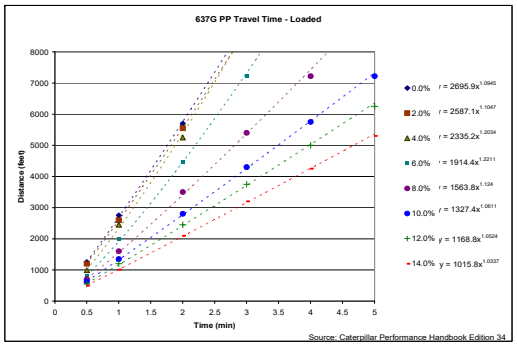


637G Push-Pull Scraper Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	1,250	2,750	5,700				2695.9	1.0945
2	1,200	2,600	5,550				2587.1	1.1047
4	990	2,450	5,250				2335.2	1.0234
6	800	2,000	4,450	7,216			1914.4	1.2211
8	700	1,600	3,500	5,400	7,216		1563.8	1.124
10	625	1,350	2,800	4,300	5,750	7,216	1327.4	1.0611
12	550	1,200	2,450	3,750	5,000	6,250	1168.8	1.0524
14	495	1,010	2,100	3,200	4,250	5,300	1015.8	1.0337

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

Source: Caterpillar Performance Handbook Edition 35



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

Weight of Materials / Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)

Material	lb/cy	Truck (769D) Load lb	Truck (773E) Load lb	Truck (777D) Load lb	769D Loaded Weight (lbs)	769D 20	769D 15	769D 10	769D 5	773E Loaded Weight (lbs)	773E 20	773E 15	773E 10	773E 5	777D Loaded Weight (lbs)	777D 20	777D 15	777D 10	777D 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

Source: Caterpillar Performance Handbook Edition 35

Weight of Materials / Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)

Material	lb/cy	Truck (785C) Load lb	Truck (793C) Load lb	Truck (797B) Load lb	785C Loaded Weight (lbs)	785C 20	785C 15	785C 10	785C 5	793C Loaded Weight (lbs)	793C 20	793C 15	793C 10	793C 5	797B Loaded Weight (lbs)	797B 20	797B 15	797B 10	797B 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: Caterpillar Performance Handbook Edition 35

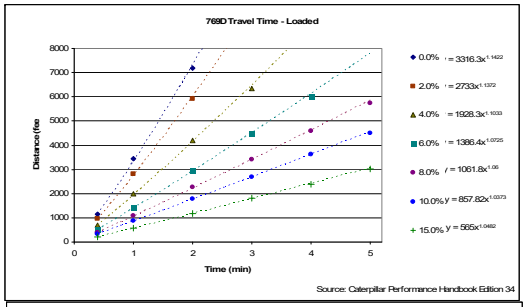
Productivity - Haul Trucks (cont.)

769D Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35



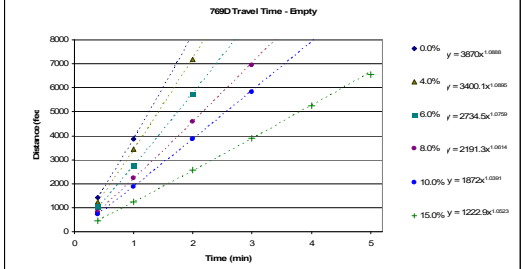
Source: Caterpillar Performance Handbook Edition 34

769D Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35



Source: Caterpillar Performance Handbook Edition 34

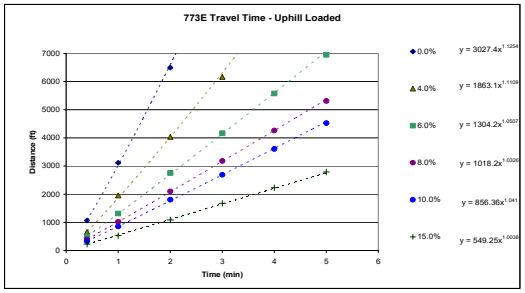
Productivity - Haul Trucks (cont.)

773E Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35

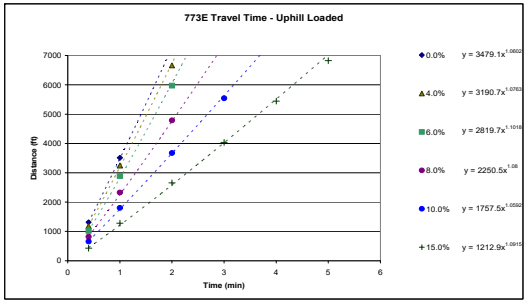


773E Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
0	1,312	3,510	7,218				3479.1	1.0602
4	1,181	3,248	6,660				3190.7	1.0763
6	1,017	2,887	5,971				2819.7	1.1018
8	820	2,329	4,790	7,218			2250.5	1.08
10	656	1,804	3,675	5,545			1757.5	1.0592
15	427	1,280	2,657	4,035	5,446	6,824	1212.9	1.0915

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

Source: Caterpillar Performance Handbook Edition 35



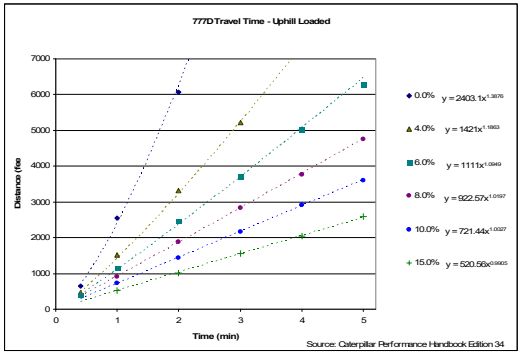
Productivity - Haul Trucks (cont.)

777D Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
0	656	2,558	6,068				2403.1	1.3876
4	459	1,509	3,313	5,215	7,085		1412	1.1863
6	394	1,148	2,460	3,706	5,018	6,298	1111	1.0949
8		918	1,886	2,837	3,772	4,756	922.57	1.0197
10		722	1,443	2,165	2,919	3,608	721.44	1.0027
15		525	1,017	1,558	2,034	2,591	520.56	0.9905

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

Source: Caterpillar Performance Handbook Edition 35

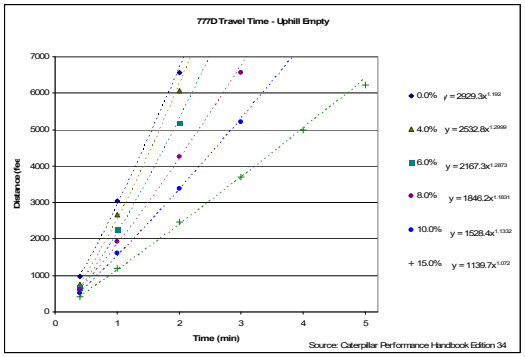


777D Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
0	968	3,034	6,560				2929.3	1.192
4	754	2,657	6,068				2532.8	1.2999
6	656	2,247	5,182				2167.3	1.2873
8	607	1,935	4,248	6,560			1846.2	1.1831
10	525	1,607	3,378	5,215	7,282		1528.4	1.1332
15	410	1,197	2,460	3,706	4,986	6,232	1139.7	1.072

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

Source: Caterpillar Performance Handbook Edition 35



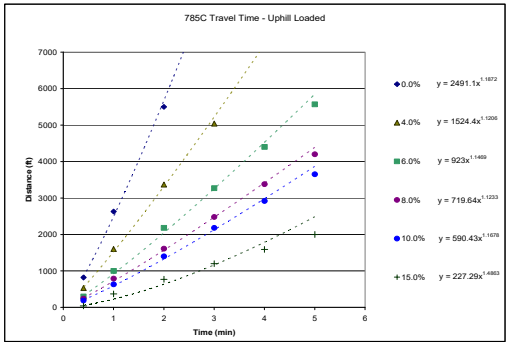
Productivity - Haul Trucks (cont.)

785C Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
0	820	2,630	5,500				2491.1	1.1872
4	530	1,600	3,370	5,040			1524.4	1.1206
6	300	1,000	2,180	3,270	4,400	5,570	923	1.1469
8	240	790	1,610	2,480	3,380	4,200	719.64	1.1233
10	190	630	1,400	2,180	2,920	3,650	590.43	1.1678
15	40	370	770	1,200	1,590	2,000	227.29	1.4863

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

Source: Caterpillar Performance Handbook Edition 35

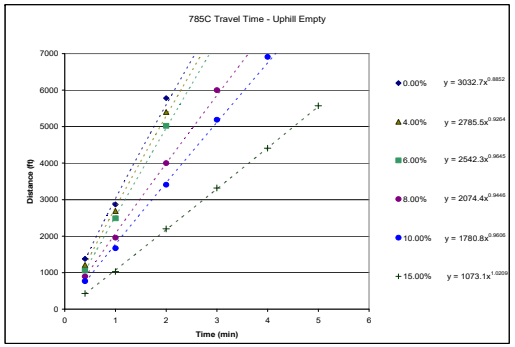


785C Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.4	1	2	3	4	5	k	p
0	1,380	2,870	5,780				3032.7	0.8852
4	1,210	2,690	5,400				2785.5	0.9264
6	1,060	2,490	5,020				2542.3	0.9645
8	900	1,960	4,000	6,000			2074.4	0.9446
10	770	1,670	3,410	5,190	6,910		1780.8	0.9606
15	430	1,030	2,200	3,320	4,410	5,570	1073.1	1.0209

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

Source: Caterpillar Performance Handbook Edition 35



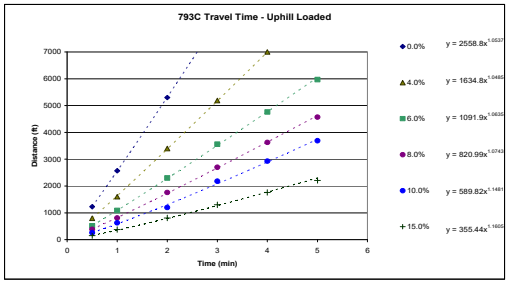
Productivity - Haul Trucks (cont.)

793C Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35

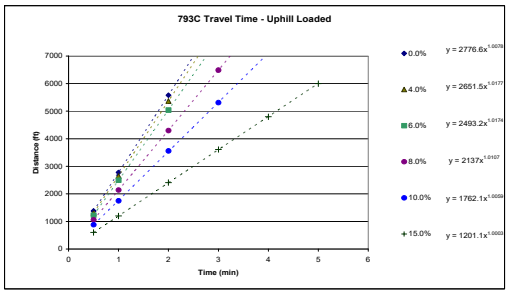


793C Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	1,380	2,780	5,580				2776.6	1.0078
4	1,310	2,650	5,370				2651.5	1.0177
6	1,230	2,500	5,040				2493.2	1.0174
8	1,060	2,140	4,300	6,490			2137	1.0107
10	880	1,750	3,560	5,310			1762.1	1.0059
15	600	1,200	2,410	3,610	4,800	6,000	1201.1	1.0003

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

Source: Caterpillar Performance Handbook Edition 35



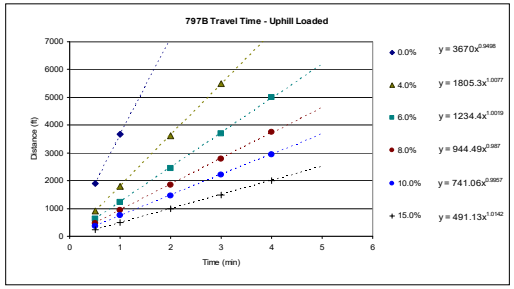
Productivity - Haul Trucks (cont.)

797B Haul Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35

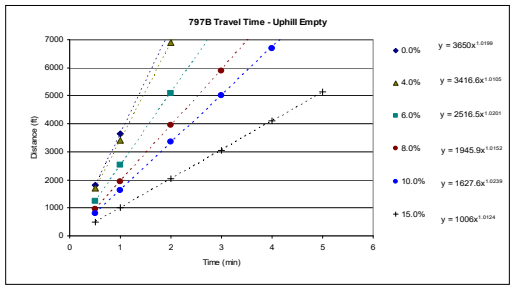


797B Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35



Productivity - Articulated Trucks

Articulated Truck Specifications				
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

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)									
				725					730				
Material	**lb/cy**	**Truck (725) Load lb**	**Truck (730) Load lb**	**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

Source: Caterpillar Performance Handbook Edition 35

Weight of Materials				Downhill Haul Truck Speed - Grade Retarding vs. Effective Grade (Grade - Rolling Resistance)									
				735					740				
Material	**lb/cy**	**Truck (735) Load lb**	**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

Source: Caterpillar Performance Handbook Edition 35

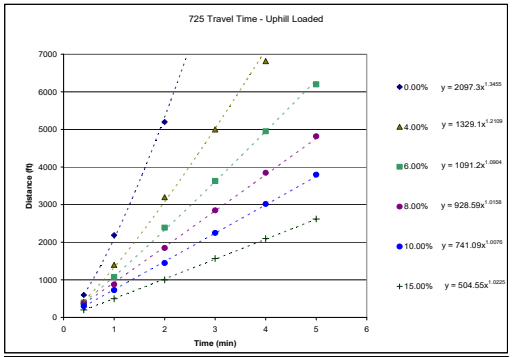
Productivity - Articulated Trucks (cont.)

725 Articulated Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	600	2,190	5,200				2097.3	1.3455
4	420	1,400	3,200	5,000	6,820		1329.1	1.2109
6	400	1,080	2,390	3,630	4,950	6,200	1091.2	1.0904
8	380	880	1,850	2,850	3,850	4,820	928.59	1.0158
10	300	729	1,450	2,250	3,020	3,800	741.09	1.0076
15	200	500	1,000	1,570	2,100	2,620	504.55	1.0225

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

Source: Caterpillar Performance Handbook Edition 35

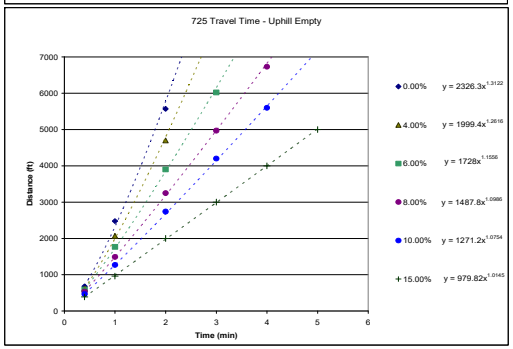


725 Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	680	2,480	5,570				2326.3	1.3122
4	620	2,070	4,700				1999.4	1.2616
6	590	1,770	3,900	6,020			1728	1.1556
8	540	1,490	3,250	4,970	6,730		1487.8	1.0986
10	470	1,270	2,740	4,200	5,600	7,050	1271.2	1.0754
15	390	960	2,000	3,000	4,000	5,000	979.82	1.0145

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

Source: Caterpillar Performance Handbook Edition 35



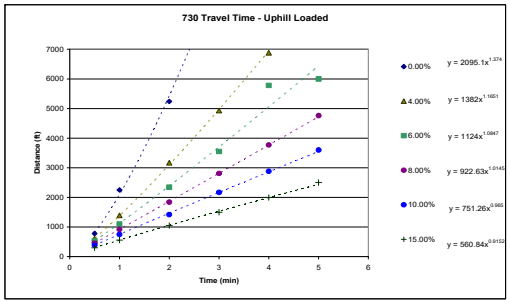
Productivity - Articulated Trucks (cont.)

730 Articulated Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35

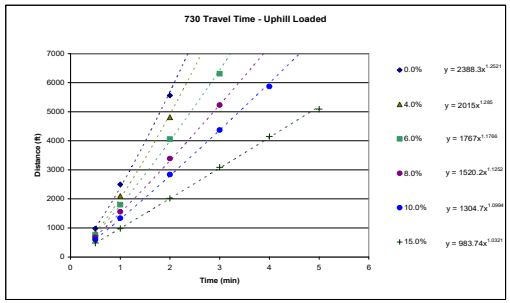


730 Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
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

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

Source: Caterpillar Performance Handbook Edition 35

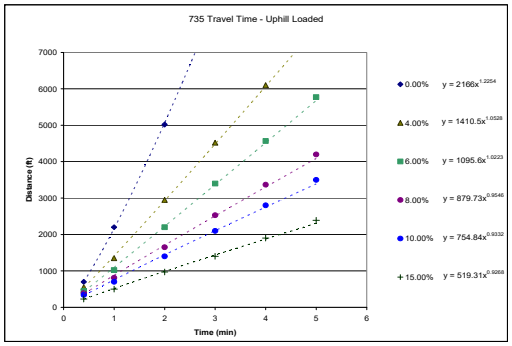


Productivity - Articulated Trucks (cont.)

735 Articulated Truck Travel Time - Uphill Loaded								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	700	2,200	5,020				2166	1.2254
4	550	1,350	2,950	4,520	6,100		1410.5	1.0528
6	450	1,020	2,200	3,400	4,570	5,770	1095.6	1.0223
8	390	810	1,650	2,530	3,370	4,200	879.73	0.9546
10	340	700	1,400	2,100	2,800	3,500	754.84	0.9332
15	230	500	970	1,400	1,900	2,390	519.31	0.9268

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

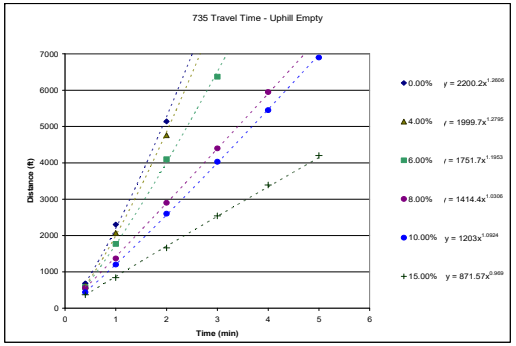
Source: Caterpillar Performance Handbook Edition 35



735 Haul Truck Travel Time - Uphill Empty								
Total Resistance (%) (rolling + grade)	Time (min)						k	p
	0.5	1	2	3	4	5		
0	680	2,300	5,140				2200.2	1.2606
4	610	2,070	4,760				1999.7	1.2795
6	580	1,770	4,100	6,370			1751.7	1.1953
8	560	1,370	2,900	4,400	5,950		1414.4	1.0306
10	440	1,200	2,600	4,030	5,450	6,900	1203	1.0924
15	370	840	1,660	2,540	3,390	4,200	871.57	0.969

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

Source: Caterpillar Performance Handbook Edition 35



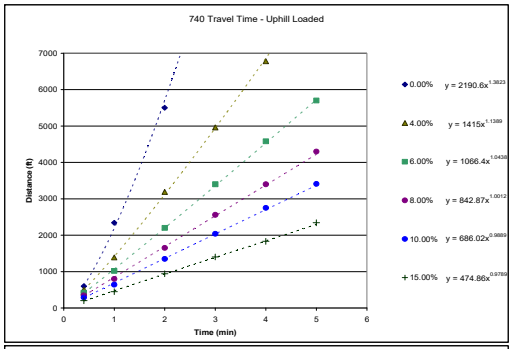
Productivity - Articulated Trucks (cont.)

740 Articulated Truck Travel Time - Uphill Loaded

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	600	2,340	5,500				2190.6	1.3823
4	500	1,390	3,190	4,960	6,780		1415	1.1389
6	420	1,020	2,200	3,400	4,580	5,700	1066.4	1.0438
8	350	800	1,650	2,560	3,400	4,300	842.87	1.0012
10	290	640	1,350	2,040	2,750	3,410	686.02	0.9889
15	200	450	940	1,400	1,830	2,340	474.86	0.9789

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

Source: Caterpillar Performance Handbook Edition 35

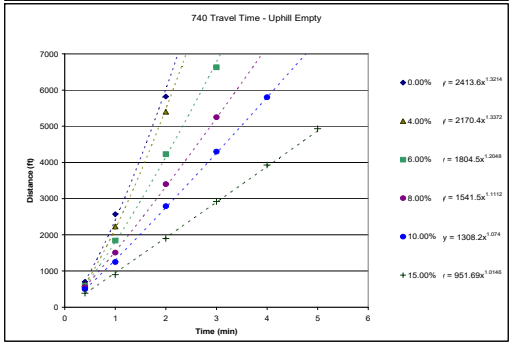


740 Haul Truck Travel Time - Uphill Empty

Total Resistance (%) (rolling + grade)	Time (min) 0.5	1	2	3	4	5	k	p
0	700	2,570	5,820				2413.6	1.3214
4	630	2,230	5,400				2170.4	1.3372
6	590	1,840	4,230	6,630			1804.5	1.2048
8	560	1,510	3,400	5,250	7,120		1541.5	1.1112
10	500	1,250	2,790	4,300	5,800		1308.2	1.074
15	390	900	1,900	2,920	3,930	4,930	951.69	1.0146

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

Source: Caterpillar Performance Handbook Edition 35



Productivity - Wheel Loaders

Wheel Loader Specifications

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

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

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 yard

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 PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators

Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, light bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific bucket requirements. (Cashman Equipment, Elko, Nevada - February 21, 2005)

Productivity - Shovels

Shovel Specifications (Komatsu equivalent)

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 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
Source: Caterpillar Performance Handbook Edition 35; Komatsu actual Peruvian 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

Source: Caterpillar Performance Handbook Edition 35

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	hard clay	hard clay	hard clay	hard clay	hard clay
Job Condition	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard	med-hard
Cycle Times (minutes) - based on hard clay							
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

Source: Caterpillar Performance Handbook Edition 35

Track Excavators	Hvy Duty Rock	Extreme Service Exc (e.g. haulroad recontour)	Hvy Duty Trench
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 PERFORMANCE HANDBOOK, ED 34; Section 12, Wheel Loader and Section 4, Excavators Bucket capacity and width dictated by material weight and configuration, ie., shot, loose, light bank, stockpile, rock, etc. Typical Nevada applications were used to determine above bucket capacities as related to materials & densities. Job site specifics may alter specific bucket requirements (Cashman Equipment, Elko, Nevada - February 21, 2005)

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

Concrete Breaking Production

Track Excavator w/Hammer Specifications

Description	325C	345B	385BL
Hydraulic Hammer	H120D s	H160D s	H180D s
Material	reinforced concrete		
Min Shift Production (yd3/8hr)	160	300	350
Max Shift Production (yd3/8hr)	300	850	1,550
Avg Shift Production (8hr)	230	575	950
Job Efficiency	0.83	0.83	0.83
Altitude Deration Factor	1	1	1

Source: Caterpillar Performance Handbook Edition 35

Drill Hole Plugging Productivity

Drill Hole Plugging Productivity		
Description	**Drill Rig**	**Pump Rig**
Move-to-hole, set-up, tear-down[1]	2	2
Trip in tremmie pipe [1]	500	
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:
1. Drillers daily logs from Newmont, Barrick, New West Gold, Agnico Eagle, Idaho General Mines Inc.
2. Drillers daily logs from Newmont, Barrick, Target Minerals
3. Drillers daily logs from Newmont
4. WDC Exploration, Dec 2005

Soumce: WDC Exploration, Dec 2005

Cuttings Placement Productivity		
Shift productivity (Means 02210-700-0120; Crew B11M)	28	cy / shift
Shift length	8	hours
Estimated Hourly Productivity	3.5	cy / hour

Altitude Deration Table

MODEL	Elevation 0-760 m (0-2500') CAT	User	760-1500 m (2500-5000') CAT	User	1500-2300 m (5000-7000') CAT	User	2300-3000 m (7500-10,000') CAT	User	3000-3800 m (10,000-12,000') CAT	User	3800-4600 m (12,500-15,000') CAT	User
Bulldozers												
D6R	100		100		100		100		92		84	
D6R w/ Winch	100		100		100		100		92		84	
D7R	100		100		100		100		100		96	
D8R	100		100		100		93		85		77	
D9R	100		100		100		93		85		77	
D10R	100		100		100		100		97		89	
D11R	100		100		100		93		85		77	
Wheeled Dozers												
824G	100		100		100		100		92		84	
834G	100		100		100		100		92		84	
844	100		100		100		100		100		96	
854G	100		100		100		93		85		77	
Graders												
120H	100		100		100		100		96		93	
14G/H	100		100		100		100		98		96	
16G/H	100		100		100		100		98		96	
24M	100		100		100		100		98		96	
Excavators												
312C	100		100		100		83		78		73	
320C	100		100		90		87		83		76	
325C	100		100		100		100		100		100	
330C	100		100		100		100		100		100	
345B	100		100		100		100		93		93	
365BL	100		100		100		86		86		86	
385BL	100		100		100		93		85		78	
Scrapers												
631G	100		100		100		100		97		90	
637G	100		100		100		95		87		80	
Loaders												
924G	100		100		100		100		97		89	
928G	100		100		100		100		92		85	
950G	100		100		100		100		100		100	
966G	100		100		100		100		96		88	
972G	100		100		92		84		77		70	
980G	100		100		100		100		96		88	
988G	100		100		100		95		85		75	
990	100		100		100		100		92		85	
992G	100		100		100		100		93		87	
994D	100		100		100		100		96		88	
L2350	100		100		100		100		96		90	
Shovels												
PC2000	100		100		100		100		96		90	
PC3000	100		100		100		100		96		90	
PC4000	100		100		100		100		96		90	
PC5500	100		100		100		100		96		90	
PC8000	100		100		100		100		96		90	
Other Equipment												
420D 4WD Backhoe	99		97		95		91		91		91	
428D 4WD Backhoe	99		97		95		91		91		91	
CS533E Vibratory Roller	100		100		98		95		91		86	
CS633E Vibratory Roller	100		100		100		100		91		86	
CP533E Sheepsfoot Compactor	100		100		98		95		91		100	
CP633E Sheepsfoot Compactor	100		100		100		100		91		86	
Light Truck - 1.5 Ton												
Supervisor's Truck												
Flatbed Truck												
Air Compressor + tools												
Welding Equipment												
Heavy Duty Drill Rig												
Pump (plugging) Drill Rig												
Concrete Pump												
Gas Engine Vibrator												
Generator 5KW												
HDEP Welder (pipe or liner)												
5 Ton Crane												
20 Ton Crane												
50 Ton Crane												
120 Ton Crane												
Trucks												
725	100		100		100		100		100		95	
730	100		100		100		100		100		95	
735	100		100		100		100		99		91	
740	100		100		100		100		99		91	
769D	100		100		100		93		88		82	
773E	100		100		100		100		93		85	
777D	100		100		100		100		93		87	
785C	100		100		100		93		86		80	
793C	100		100		100		100		100		93	
797B	100		100		100		100		100		93	
613E (5,000 gal) Water Wagon	100		100		100		100		95		87	
621E (8,000 gal) Water Wagon	100		100		100		100		97		90	
777D Water Truck	100		100		100		100		93		87	
785C Water Truck	100		100		100		93		86		80	
Dump Truck (10-12 yd^3) (5)												

Notes:
User entered deration value will override values from CAT Performance Handbook, except L2350 Loader: data from actual mine performance in Chile.
Komatsu altitude deration assumed from LeTourneau L2350

Attachment 10 Montrose County Commissioner Notification

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Board of County Commissioners
Montrose County Colorado
949 North 2nd Street
Montrose, CO 81401

Project: USPR001303
July 13, 2023

Subject Notice of Intent to Conduct Prospecting Operations for the REX Project in Montrose County, Colorado

Dear Mr. Richmond and Commissioners,

On behalf of Sunrise Minerals Inc. (Sunrise), SRK Consulting (U.S.), Inc. (SRK) is notifying the Board of County Commissioners for Montrose County Colorado that an Amended *Notice of Intent to Conduct Prospecting Operations* for the REX Project has been submitted to the Colorado Division of Reclamation, Mining and Safety (DRMS). The original NOI was approved in April 2023.

The REX Project is located in Montrose County, Colorado on public land managed by the U.S. Department of the Interior Bureau of Land Management Uncompahgre Field Office. All non-confidential information regarding the proposed prospecting operations will be available or review at the DRMS website. Figures are included for reference.

As required by Montrose County zoning regulations, a request for access was submitted and fees paid in April 2023 to access the public land managed by the Bureau of Land Management via Road W19 in Spring 2023. Drilling for this amended project will not occur until May 2024 at the earliest, if required, a request for access will be submitted in April of 2024, prior to starting the drilling program.

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.

Cari L Anderson

Cari Anderson, E.I.
Senior Consultant

cc: D. Czapla, DRMS

Attachment 1 Figures