# PART 3 MINIMAL IMPACT EXPLORATION OPERATION

#### PERMIT APPLICATION

Accompanying instructions for this permit application are available from MMD, and on MMD webpage:

http://www.emnrd.state.nm.us/MMD/MARP/MARPApplicationandReportingForms.htm

Send 6 copies of the completed application to:

\_\_\_\_

# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Director

Mining and Minerals Division 1220 South Saint Francis Drive Santa Fe, New Mexico 87505 Telephone: (505) 476-3400

Webpage: www.emnrd.state.nm.us/MMD/index.htm

## CHECK OFF LIST TO DETERMINE YOUR PROJECT'S STATUS AS A MINIMAL IMPACT EXPLORATION OPERATION:

∐ Yes	X No	pads, mud pits, and roads will not be counted in excavated materials).
☐ Yes	<b>X</b> No	Surface disturbances for constructed roads, drill pads and mud pits <u>will</u> <u>exceed 5 acres</u> total for my project.
☐ Yes	<b>X</b> No	My project is located in or is expected to have a direct surface impact on wetlands, springs, perennial or intermittent streams, lakes, rivers reservoirs or riparian areas.
☐ Yes	<b>X</b> No	My project is located in designated critical habitat areas as determined in accordance with the federal Endangered Species Act of 1973 or in areas determined by the Department of Game and Fish likely to result in an adverse impact on an endangered species designated in accordance with the Wildlife Conservation Act, Sections 17-2-37 through 17-2-46 NMSA 1978 or by the State Forestry Division for the Endangered Plants Act, section 75-6-1 NMSA 1978.

_  Yes	<b>X</b> No	My project is located in an area designated as Federal Wilderness Area, Wilderness Study Area, Area of Critical Environmental Concern, or an area within the National Wild and Scenic River System.
Yes	<b>X</b> No	My project is located in a known cemetery or other burial ground.
□ Yes	<b>X</b> No	My project is located in an area with cultural resources listed on either the National Register of Historic Places or the State Register of Cultural Properties.
Yes	<b>X</b> No	My project will or is expected to have a direct impact on ground water that has a total dissolved solids concentration of less than 10,000 mg/L, except exploratory drilling intersecting ground water may be performed as a minimal impact operation.
☐ Yes	<b>X</b> No	My project is expected to use or using cyanide, mercury amalgam, heap leaching or dump leaching in its operations.
☐ Yes	<b>X</b> No	My project is expected to result in point or non-point source surface or subsurface releases of acid or other toxic substances from the permit area.
☐ Yes	<b>X</b> No	My project requires a variance from any part of the Mining Act Rules as part of the permit application.
•	wer <u>yes</u> to ploration op	any of the above questions, your project <u>does not</u> qualify as a minimal peration.
Confident	tial Inform	ation
☐ Yes	<b>X</b> No	Is any of the information submitted in this application considered by the applicant to be confidential in nature? If yes, please provide this information separately and marked as "confidential."

#### **Timeline**

- Exploration applications must be provided no less than 45 days prior to the anticipated date of operations desired by the applicant.
- Renewal applications shall be filed at least 30 days preceding expiration of the current permit. Permits are valid for one year.
- Approved permit is valid for one year from the date of approval.

### SECTION 1 – OPERATOR INFORMATION (§304.D.1)

Project Name: Malone	
Nearest Town To Project: Lordsburg, New M	
Applicant Name and Contact Information (entit	ty obligated under the Mining Act):
Name: Bronco Creek Exploration	
Address: 1815 E. Winsett St.	
Tucson, Arizona 85719	
	Cell Phone:
Fax Number:	Email:
Name of On-Site Contact, Representative, or 0	Consultant:
Name: Caleb King	
Address: 1815 E. Winsett St.	
Office Phone: <b>(520) 624-4153</b>	Cell Phone: <b>(307) 871-1655</b>
Fax Number	Fmail <sup>.</sup>

SECTION 2 – RIGHT TO ENTER INFORMATION (§302.D.1)

to conduct the exploration and reclamation, include: lease agreements, access agreements, right of way agreements, surface owner agreements, and claim numbers, if applicable. Bronco Creek Exploration has 253 unpatented lode claims at Malone where the surface ownership and administration are through the Gila National Forest. Exhibit A, which is attached, has the outline of the individual claims along with the individual claim numbers. Attachment: Exhibit A – Malone Project Lode Claims B. List the names and addresses of surface and mineral ownership within the proposed permit area. If the mineral is federal mineral, indicate as federal mineral, but provide the name of the claim holder or lease holder. **Surface Estate Owner(s):** Phone # Name Address □ U.S. BLM X U.S. Forest Service USDA - Gila National Forest (575) 388-8201 3005 E. Camino del Bosque Silver City, New Mexico 88061 ☐ State of NM ☐ Private/Corporate Name: \_\_\_\_\_ Other Lease Holder(s) of Surface Estate (if applicable):

A. Describe or attach copies of documents that give the applicant the right to enter the property

Name	Address	Phone #
		_
		_
		_
Mineral Estate Owner(s):		
Name	Address	Phone #
☐ Bureau of Land Management		_
US Forest Service		
		_
☐ State of NM		_
<b>V</b> OI : //	4045 5 145 44 04	(500) 004 4450
X Claim/Lease Holder	1815 E. Winsett St	
	Tucson, Arizona 85719	
Claim Numbers: KM 1-193, KM 25	8-261, KM 274-279, KM 290-295, KN	l 306-307, KM 314-318,
KM 325-334, KM 338-347, KM 353	3-355, KM 360-370, KM 376-392	
☐ Claim/Lease Holder		
Name:		_
Claim Numbers:		
Other		_
Name:		

C. Has a Cultural Resource Survey	been performed on the site?					
Yes <b>X</b> No If yes, please provide the author, title, date and report number, and include a copy of the survey with this application, if possible:						
This permit is being filed concu	rrently with the Gila Nationa	I Forest who will conduct				
Cultural Resource Surveys for the	areas of proposed exploration	on.				
Attachment						
D. Has a wildlife survey or vegetation	on survey been performed for th	e permit area?				
☐ Yes <b>X</b> No If yes, please proceed Yes <b>X</b> No If yes, please proceed Yes		report number, and include a				
This permit is being filed concurr	ently with the Gila National F	orest who will conduct the				
required biological studies for the	areas of proposed exploration	on.				
Attachment						
SECTION 3 - MAPS	AND PROJECT LOCATION	ON (§302.D.2)				
A. Project Location:						
Township: 20S	Range: <b>16W</b>	Section: <b>18,19, 20, 21, 30</b>				
Township: 21S	Range: <b>16W</b>	Section: 7				
Township:	Range:	Section:				

List the drill hole/exploration name and the GPS coordinates for each site.

	N1 (1.1 /	
I.D.	Northing /	
Number	Latitude	Easting / Longitude
KM-P-1A	32°33'9.622"N	108°31'38.984"W
KM-P-2A	32°33'5.871"N	108°31'52.744"W
KM-P-3A	32°33'38.215"N	108°32'22.806"W
KM-P-4A	32°33'39.691"N	108°32'1.513"W
KM-P-5A	32°32'46.241"N	108°32'35.088"W
KM-P-6A	32°32'43.435"N	108°31'45.135"W
KM-P-7A	32°33'15.671"N	108°32'7.504"W
KM-P-8A	32°33'15.011"N	108°32'25.639"W
KM-P-9A	32°33'34.882"N	108°32'34.946"W
KM-P-10A	32°32"34.688"N	108°31'55.74"W
KM-P-11A	32°33'48.798"N	108°32'25.655"W
KM-P-12A	32°33'29.742"N	108°32'16.39"W
KM-P-13A	32°33'21.68"N	108°30'29.361"W
KM-P-14A	32°33'32.547"N	108°30'53.06"W

Coordinate system used to collect GPS data points:

Northing /	Easting /
Latitude	Longitude
32°33'9.622"N	108°31'38.984"W
32°33'5.871"N	108°31'52.744"W
32°33'38.215"N	108°32'22.806"W
32°33'39.691"N	108°32'1.513"W
32°32'46.241"N	108°32'35.088"W
32°32'43.435"N	108°31'45.135"W
32°33'15.671"N	108°32'7.504"W
32°33'15.011"N	108°32'25.639"W
32°33'34.882"N	108°32'34.946"W
32°32"34.688"N	108°31'55.74"W
32°33'48.798"N	108°32'25.655"W
32°33'29.742"N	108°32'16.39"W
32°33'21.68"N	108°30'29.361"W
32°33'32.547"N	108°30'53.06"W
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NAD83 Geographic
 NAD27 Geographic
 NAD27 UTM Zone 13 (or 12)
 X WGS 1984
 Other:
 Attachment \_\_\_\_\_\_ (for listing additional boreholes)
 B. Maps (see application form instructions for examples of maps to be included):
 Are topographic maps included with the application that show the following items:
 X Yes − The boundary of the proposed exploration project Permit Area
 X Yes − The proposed exploration locations (i.e., borehole locations)
 X Yes − Existing roads, new roads and overland travel routes
 X Yes □ N/A − Areas of proposed road improvement

Are maps or figures included with the application showing the approximate dimensions and locations of drill pads and other disturbances:

Attachments: Exhibits B, C and D – Maps of access routes, drill sites, drill hole locations, existing roads, areas of road improvements, and overland travel routes.

X Yes – Drill pad dimensions and constructed drill pad locations

Attachments: Exhibits B, C, and D – Maps of access routes, drill sites, drill hole locations, existing roads, areas, of road improvements, and overland travel routes.

C. Provide detailed driving directions to access the site: The primary route to the Malone project area is accessible from State Highway 90 that connects Lordsburg and Silver City, New Mexico. Access to the western portion of the property, which will be the primary focus for this exploration program, is made via Mill Canyon Road (FSR 859) which is located on the north side of State Highway 90 approximately 15.6 miles northeast of Lordsburg, New Mexico. The Bronco Creek project area extends from 2.5-5.0 miles north of Highway 90. A second access route, which services the eastern side of the property, is made via Gold Gulch Road which is located 21.4 miles northeast of Lordsburg, New Mexico along State Highway 90. The southernmost drill site is located 1.4 miles north of State Highway 90.

### SECTION 4 – EXPLORATION DESCRIPTION (§302.D.3 & 4)

A.	Anticipated exploration: Start Date	te: <b>4/01/2021</b>	End Date: <b>8/31/2021</b>					
	B. List the mineral(s)/element(s) to be explored for: Exploration will be conducted for base metals (copper, lead, zinc) and precious metals (gold and silver).							
C.	Proposed method(s) of exploration	on:						
	Air drilling (air rotary, cori	ng, etc.):						
	# of holes	Depth (ft.)	Diameter (in.)					
	# of drill pads	Length (ft.)	Width (ft.)					
	Will drill pads be graded/bladed	or overland: Graded	/bladed					

	Will drill p	ads need some	mechanical	leveling (	grading/	blading): [	Yes	∐ No	0
	Approx. V	Veight of Drill Ri	g (lbs.)			Num	ber of Axl	es:	
	Total leng	gth of drill stem t	hat can be c	arried on	the rig:_				
	Is a suppo	ort pipe truck an	ticipated?	Yes	☐ No			Weigh	nt (lbs.)
	Weight of	support compre	essor (lbs.):_		Trail	er mounte	ed?		
	Anticipate	ed Drilling Contra	actor:				License	e No	
X	Mud/Flu	uid Drilling (D	iamond Dri	lling):					
	28	# of holes	5000	Depth	(ft.)	2.5	Diameter	(in.)	
	14	# of drill pads	~100	Leng	th (ft.)	~100	Width (	ft.)	
	Will drill p	ads be graded/l	oladed or ove	erland: [	] Grade	d/bladed	<b>X</b> Ov	erland	
	Will drill p	ads need some	mechanical	leveling (	grading/	blading): [	Yes	<b>X</b> No	
	How will	drill pads be co	nstructed? <u>D</u>	rill sites	will be	cleared r	nainly wi	th har	nd tools,
	clearing	the minimum	amount of	vegetati	on in or	der to a	ccomplisi	n safe	drilling
	activities	. Heavy equipr	ment may be	used (b	ackhoe)	to clear	some lar	ger ve	getation
	where ne	ecessary; howe	ver, the dril	l sites w	ere cho	sen on fla	<u>at ground</u>	with 1	the least
	amount o	of vegetation p	ossible, so	that bla	ding or	removal	of topso	<u>il will</u>	NOT be
	necessar	<u>'Y.</u>							
	Will a clos	sed loop system	n be used or	will mud/	fluid pits	be used?	Sumps (	<u>dug w</u>	<u>ithin the</u>
	permitted	d drill site dis	sturbance, v	vill be u	ised to	contain	drilling	<u>muds</u>	(mostly
	bentonite	e) and native r	ock cutting	s. The s	umps v	vill be fer	nced off	and c	ontain a
	ramp for	wildlife evacua	ation.		-				
	If mud/flui	id pits are propo	sed:						
	14_	# of pits	<b>40</b> Lengt	h (ft.)	20	_Width (ft	.) <u>1</u>	<u>0</u> De	epth (ft.)
	Antic	ipated excavati	ng equipmen	t: <b>Backh</b>	oe				
	How	will excavating	equipment be	e transno	rted to th	ne site (i e	driven l	low-bo	ov etc.):

	Equipment will be delivered to the site on a low-boy trailer.
	Will mud pits be lined?: ☐ Yes X No
	If yes, proposed material to line the mud pits:
А	pprox. Weight of Drill Rig (lbs.): N/A Number of Axles: <b>Track Mounted Rig</b>
А	nticipated Drilling Contractor: Ruen Drilling Inc. License No. WD-1661
	Test pits / exploratory trenches:
_	# of pitsLength (ft.)Width (ft.)Depth (ft.)
А	nticipated excavating equipment:
Н	low will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):
_	
_	
	Other methods of exploration (i.e., cuts, shafts, tunnels, adits, declines, blasting,
6	etc.). Indicate method and details:
_	
-	
	ACREAGE TO BE DISTURBED DUE TO DRILL PADS = 3.170 acres vert to acres, multiply total square footage of drill pads by 0.0000229)
D. Disp	osal of drill cuttings
agre activ	is exploration project is for uranium or other radioactive elements/minerals, applicant ees to perform a gamma radiation survey at each drill site prior to, and after, exploration rities. Applicant/Owner/Operator agrees to restore gamma radiation levels at each drill to pre-exploration levels. $\square$ Yes $\square$ No $\mathbf{X}$ N/A
	excess drill cuttings be buried at each drill site location or within a single disposal pit? each drill pad location
ľ	f a single disposal pit is proposed, please provide the following:

	Description or GPS coordinates of the proposed cuttings disposal pit location:							
	•	Dimensions of the single pr	oposed cuttings	disposal	l pit (lengt	th, width, a	and depth):	
		Length (ft.)		Width (1	ft.)		Depth (ft.)	
		_ ACREAGE TO BE DIS vert to acres, multiply tota					<u>0</u> acres 00229)	
E.	Oth	er Supporting Equipment (c	check all that appl	y):				
	X	4x4 Trucks/Vehicles	Quantity:	3-5 pe	ersonnel	trucks		
	X	Water Truck	Weight (lbs.):	1,500-	3,000-ga	llon capa	city	
		Geophysical Truck	Weight (lbs.):					
		Pipe Truck (rig support)	Weight (lbs.):					
		Bulldozer	Type:					
	X	Backhoe	Type:	Cater	pillar or J	John Deei		
		Trackhoe	Type:					
		Scaper/Grader	Type:					
	X	Trailers	Quantity/Type:	2-4, 2 trailer		ers and 2	light duty	
	X	Portable Toilet	Quantity:	2				
	X	Other	List:	1 fork	lift			
F.	Roa	ads and Overland Travel:						
	List	of <u>new</u> roads to be constru	cted for this explo	oration p	oroject:			
		Description of <i>NEV</i>	<i>V</i> Roads		Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)	

TOTAL ACRES DISTURBED BY NEW ROAD	0	

Describe	how	new	roads	will	be	constructed:	No	new	roads	will	be	constructed	for	this
explorati	on pi	roiect	t.											
<u>oxproruct</u>	<u>оп р</u> .	0,00	<u> </u>											

List for <u>extension or widening of existing</u> roads:

Description of Modification to <i>EXISTING</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
Road Repairs	571	10	0.131
TOTAL ACRES DISTURBED BY ROAD I	0.131		

Describe how existing roads will be extended or widened: Existing Forest Roads will be preferentially utilized for drill pad access where possible with only limited maintenance to existing roads that is required to maintain basic safety standards. Road repairs will not exceed the existing prism of the roadway and repairs may include levelling of only severely uneven or rutted ground within the existing road footprint.

List for routes of overland travel:

			Total
Description of OVERLAND TRAVEL Bouton	Length	Width	Acres
Description of OVERLAND TRAVEL Routes	(ft.)	(ft.)	(length x width
			x 0.0000229)
Route for access to KM-P-02	91	10	0.021

TOTAL ACRES DISTURBED BY OVE	RLAND	TRAVEL:	0.637
Route for access to KM-P-09	1,083	10	0.249
Route for access to KM-P-08	1,600	10	0.367

#### G. Support Facilities

Describe (location and size) any support facility disturbances (equipment staging, equipment and material storage and/or lay down areas, vehicle parking, temporary housing and/or trailers) to be created or situated on the site during exploration operations.

A laydown yard located 0.28 miles north of State Highway 90 on the Mills Canyon Road (FSR 859) will be utilized for equipment staging and for the storage of equipment and materials. The area used for the project will be approximately 70 feet by 150 feet in size with an area of 0.253 acres. The location of the laydown yard can be seen on Exhibit B where it can be found on the southeast corner of the map as a green square.

No permanent structures will be constructed during this operation. However, operations taking place in extreme weather conditions may necessitate use of a tent or other small portable shelter located on the drill site in which drillers may take temporary shelter during their shift. These shelters would however be within the area of permitted disturbance on the drill sites or the laydown yard.

H. **TOTAL ACREAGE TO BE DISTURBED BY PROJECT = 3.938** acres (include all disturbed acreage from drill pads, cuttings disposal pit, new roads, improved roads and overland travel routes)

### SECTION 5 - CHEMICAL USE (§302.D.4)

A. Check any and all chemicals that will be used for this project.

X	Drilling Mud (i.e., EZ Mud)	Type/Quantity:	Poly Plus RD – 40 Pails
X	Diesel Fuel	Quantity:	7,500 Gallons
X	Down-hole Lubricants	Type/Quantity:	30 Pails
X	Lost Circulation Materials	Type/Quantity:	20 Bags
X	Oils/Grease	Quantity:	25 Pails Rod Grease
X	Gasoline	Quantity:	200 Gallons
X	Hydraulic Fluid	Quantity:	20 Gallons
	Ethylene Glycol	Quantity:	
X	Cement	Type/Quantity:	10 Bags
X	Water	Source:	700,000 Gallons
X	Bentonite	Quantity:	650 Bags
	Fertilizer	Type/Quantity:	
	Other	Type/Quantity:	Platinum Pac – 40 Pails
			Soda Ash – 20 Bags
			Smooth Grout – 150 Bags
			<u> </u>

B. Describe, in detail, a plan for the containment, use and disposal of all chemicals listed above:

The drill rig and any other necessary vehicles will contain gasoline or diesel fuel, engine oil and/or hydraulic oil, as well as various other petroleum products in their respective internal tanks of various sizes. Other containers of these substances used for transportation and storage at the project site will be clearly labeled and include steel drums, pails, and vehicle-mounted tanks. Also, the storage of these materials will be limited to containment vessels which isolate the fluids from the ground. All

fuel storage tanks will be double walled and placed in secondary containments. Equipment utilizing hazardous substances will be placed on thick puncture resistant plastic sheeting with environmental hydrocarbon absorbent pads on top to prevent any potential leaks from contaminating the ground. Industry standard materials and additives will be utilized on the project and SDS sheets will be provided prior to the beginning of operations. Additionally, items such as bean pumps, trash pumps etc., will be placed in secondary containments. Fuel storage areas are non-smoking, fenced, signed, and checked daily for leaks and/or damage. All unused petroleum products will be removed from the site upon completion of the project; these will be recycled or disposed of at an approved location. Spill response kits will be available on site for any accidental spills.

All other materials including drilling mud, lost circulation materials, cement and bentonite will be stored in the labeled manufacturer's containers (bags, sealed buckets, etc.) which are stored on covered or plastic wrapped pallets in the laydown yard until they are used at the drill site. All unused materials will be removed from the site upon completion of the project.

The planned water source for the program is from municipal supply in the town of Lordsburg, NM. If the primary source is unavailable, or inadequate, BCE reserves the right to utilize an alternate water source (such as water from a private well). If an additional alternate water source is utilized, BCE agrees to obtain prior permission from the GNF, which may include testing of the alternative waters. It is anticipated that 2-4 loads of water will be trucked daily, between 7am and 7pm; water will only be trucked at night if necessary. The water will be stored in tanks located at the currently active drill site. Potable water may be sprayed on drill sites and any access roads, including overland routes, if necessary, to control dust.

C. Describe where equipment fueling/refueling will occur: Fuel storage for this program will be at two locations including the active drill site and at the laydown yard. At the laydown yard a fueling station will be utilized as the primary source for diesel on the project and vehicle mounted tanks on trucks will used to transport and ultimately fuel the drill rig. A small fuel storage area at the active drill site will be used for 5-gallon cans of gasoline and diesel that are needed for the fueling of smaller equipment, pumps, and generators. D. Describe how hazardous material spills/leaks will be handled: In the unlikely event of an accidental spill or leak, mitigations will be conducted in accordance with state and federal guidelines. Chemical clean-up kits will be kept at the site, and spill buckets or catchment basins will be available to contain any petroleum product leaks, and actions will be taken to mitigate fire, explosion, and vapor hazards. Released materials and any contaminated materials including soils exposed above and below ground will be cleaned up for proper disposal. In the unlikely event a spill equals or exceeds its reportable quantity under CERCLA, we will notify the Forest Service, NM MMD, and NMED immediately. E. Identify spill cleanup materials that will be kept on-site (check all that apply): **X** Bentonite clay or cat litter **X** Adsorbent pads, rolls, mats, socks, pillows, dikes, etc. **X** Drum or barrel for containing contaminated soil/adsorbent materials X Other/list: Spill kits Other/list: Other/list: F. Applicant/owner/representative agrees to immediately notify the State of New Mexico

immediately of any spills of hazardous materials (see page 1 of this application for phone

numbers to notify): **X** Yes

# SECTION 6 – GROUNDWATER/SURFACE WATER INFORMATION (§302.D.5)

Α.	Provide an estimate of depth to ground water and the total dissolved solids (TDS) concentration.
	Depth to groundwater (ft.): N/A TDS concentration (mg/L): N/A
	Describe the source of this information: At the time of the writing of this permit, there are
	no known sources of information that could be used to determine the depth of
	groundwater or the TDS concentration of the water.
В.	Will dewatering activities be conducted: ☐ Yes <b>X</b> No
	If yes, please describe:
C.	Is groundwater anticipated to be encountered during exploration: <b>X</b> Yes
	If <u>YES</u> :
	Have you completed Form WR-07 (Application for permit to drill a well with no consumptive use of water) and mailed it to the District Office of the State Engineer? <b>X</b> Yes
	Have you completed Form WD-08 (Well plugging plan of operations) and mailed it to the District Office of the State Engineer? <b>X</b> Yes
	AttachmentCopies of the completed WR-07 and WD-08 forms are attached.
D.	Exploration Borehole Abandonment
	Dry Boreholes
	Dry hole abandonment (option 1): 100% bentonite pellets/chips (i.e. HOLEPLUG® manufactured by Baroid Industrial Products), dropped from surface then hydrated in place according to the manufacturer's recommendations, emplaced from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.

	<u>Dry hole abandonment (option 2):</u> Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
	<u>Dry hole abandonment (option 3):</u> Cement + 6% bentonite slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
X	<u>Dry hole abandonment (option 4):</u> High-density bentonite clay (≥ 20% active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
	<u>Dry hole abandonment (option 5):</u> Other materials / describe and justify use:
We	et Boreholes
X	Wet hole abandonment (option 1): Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
X	Wet hole abandonment (option 2): High-density bentonite clay (≥ 20% active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
	Wet hole abandonment (option 3): Other sealing material approved by the Office of the State Engineer. Describe and include well plugging plan approval by the State Engineer:
	Option 1 (wet boreholes) will be used for holes that encounter artesian
	groundwater. Option 2 (wet boreholes) and Option 4 (dry boreholes) will be used
	for holes that encounter no groundwater or non-artesian groundwater.
and	olicant agrees to contain any water produced from the exploration borehole at the drill site d acknowledges that discharge of this water to a watercourse may be a violation of the deral Clean Water Act:  X Yes  No
	any drilling proposed to occur <u>within the channel</u> of any perennial, intermittent, or nemeral streams?

D.

E.

F.	Is any drilling streams?	g anticipate ☐ Yes	d to occur <u>v</u> <b>X</b> No	vithin 100 fee	<u>et</u> of any pere	ennial, intermit	tent, or epheme	ral

# SECTION 7 – RECLAMATION & OPERATION PLAN (§302.D.6 AND 302.I.K)

#### A. Salvage/Preservation of Topsoil

	agr		eserve all topsoil a	es occur in relation to this project, operator nd topdressing for use in future reclamation of
	Des app		be salvaged prior	to initiation of exploration activities (check all that
	<b>X</b> N	N/A – no construction v	work will occur; the	erefore, no soil salvage is needed.
		Excavated from drill pa	ads and stored at e	each drill pad
		Excavated from road in	mprovements/cons	struction and stored adjacent to road
	X	Excavated from mud/f	luid pits and storaલ્	ge at each pit
		Other, describe:		
_	<b>-</b>	aian Qantus		
В.	Ero	sion Control		
	Des	scribe the best manage	ement practices th	at will be implemented to control erosion:
		Silt fencing	Location:	
		Straw waddles	Location:	
		Straw bales	Location:	
		Ditches/swales	Location:	
	X	Berms/dikes/dams	Location:	Berms, channels, and windrows may be
				used to prevent materials from leaving sites.
		Sediment basins	Location:	
	X	Other or N/A	Type/Location:	All fluids and materials will be contained on
				the drill site and in the sump

C.	Wildlife Protection / Noxious Weed Prevention
	Will the perimeter of drill pits be fenced to prevent wildlife entrapment? $\mathbf{X}$ Yes $\square$ No
	Proposed pit perimeter fence material: <u>Sumps will be fenced off using 4-foot-wide safety</u>
	fence.
	Describe how the pit perimeter fencing will be installed and secured (i.e., T-posts, wooden stakes, etc.):  Safety fence will be installed using T-posts inserted at regular intervals to keep the
	fencing material tight and secure. The safety fence will be attached to the T-posts
	using cable ties or baling wire.
	Will at least one side of the interior of the drill pits be sloped at 3:1 as a ramp for wildlife escape? $\mathbf{X}$ Yes $\square$ No
	If No, will another type of constructed escape ramp be installed? Describe:
	Applicant/Owner/Operator commits to pressure-washing or steam-clean all equipment prior to entering the permit area: X Yes \sum No
D.	Reclamation Details
	Describe in general how re-contouring or re-establishment of the surface topography will be restored:  We have chosen drill sites based on geologic targets, but their exact placement is
	influenced by the presence of minimal vegetation to minimize the impacts and
	disturbance on each drill site. Some drill sites may require minor cutting of small
	trees/vegetation to allow for safe drilling operations. Rocks, stumps, dead and down
	trees, and other such obstacles may need to be temporarily relocated as well. Agave,
	pincushion, hedgehog, and saguaro cactus were avoided where possible for drill pad
	and route selection, however these will be transplanted if necessary, during

constructing/clearing of drill pads and overland routes. These disturbances will be

addressed and replaced upon completion of the project. Slash and other tree cuttings will be scattered in such a manner as to evenly distribute them in the area, thereby minimizing the local impacts of such disturbance. Any areas of disturbance will be recontoured with hand tools or through the use of a drag mat pulled behind a vehicle. In the case of the sumps, they will be allowed to dry and then refilled and recontoured using a backhoe. Stockpiled topsoil will then be put back onto the area of the sump and re-contouring of the area will be finished using hand tools and/or a drag mat. The disturbed areas will then be re-seeded using guidelines from and an approved seed mix from the Gila National Forest.

Describe how the reclamation of portals, adits, drilling fluid/mud and/or waste pits, shafts, ponds, roads and other disturbances will be performed:

In the process of digging sumps for each drill site, topsoil will be stockpiled for later use in reclamation. Upon completion of the drilling the sumps will be allowed to dry and then refilled using a backhoe. The area will be re-contoured and then the stockpiled topsoil will be placed over the re-contoured area and final reclamation will be completed using hand tools and/or a drag mat pulled behind a vehicle. The area will then be re-seeded using the guidelines and approved seed mix from the Gila National Forest.

Access routes into each of the drill sites will be dealt with according to the type of access. Roads that were used during the drilling will be fixed if necessary and in areas where road repairs were made, they will be left in place for the publics use. If the roads were originally blocked by the USFS, the barricades will be replaced to prevent unauthorized use of the roads. Overland routes will be reclaimed in the same fashion as the drill sites where hand tools and/or drag mats will be used to re-contour the disturbed area and if necessary, a backhoe will be used for reclamation. The areas will then be re-seeded using the guidelines and approved seed mix from the Gila

National Forest.							
Pre-existing portals, adits, and	Pre-existing portals, adits, and shafts will not be reclaimed as a part of this program.						
Is seeding of the reclaimed areas If no, provide a justification as							
Plant mix to be used in the re-esta	ablishme	ent of vegetation:					
X US Forest Service specified m	ix applie	ed through broadcast at their recomroadcast at their recommended rate	nended rate				
Plant Name		Seeding Rate (lbs./acre)					
	_						
	_						
	_						
	_						
	_						
	_						
	_						
Broadcast applied or drill-seeded:	<b>X</b> Bro	adcast	•				
	6-inches cted dri eds in a	s depth of all constructed drill pads a ill pads and roads, and/or overland tr areas used for overland travel					

	U Other/describe:
	Mulch Use:  ☐ Certified weed-free straw mulch will be placed over areas that have been tilled/disced or ripped at a rate of 2 tons per acre, and will be crimped in place  X No mulch is proposed
E.	Reclamation Timeline
	Applicant/Owner/Operator commits to reclamation of the disturbed area as soon as possible following the completion or abandonment of the exploration operation, unless the disturbed area is included within a complete permit application for a new mining permit:  X Yes  No
	Anticipated Start of Reclamation:
	X 0-30 days after completion of drilling  ☐ 31-60 days after completion of drilling ☐ Other/specify:

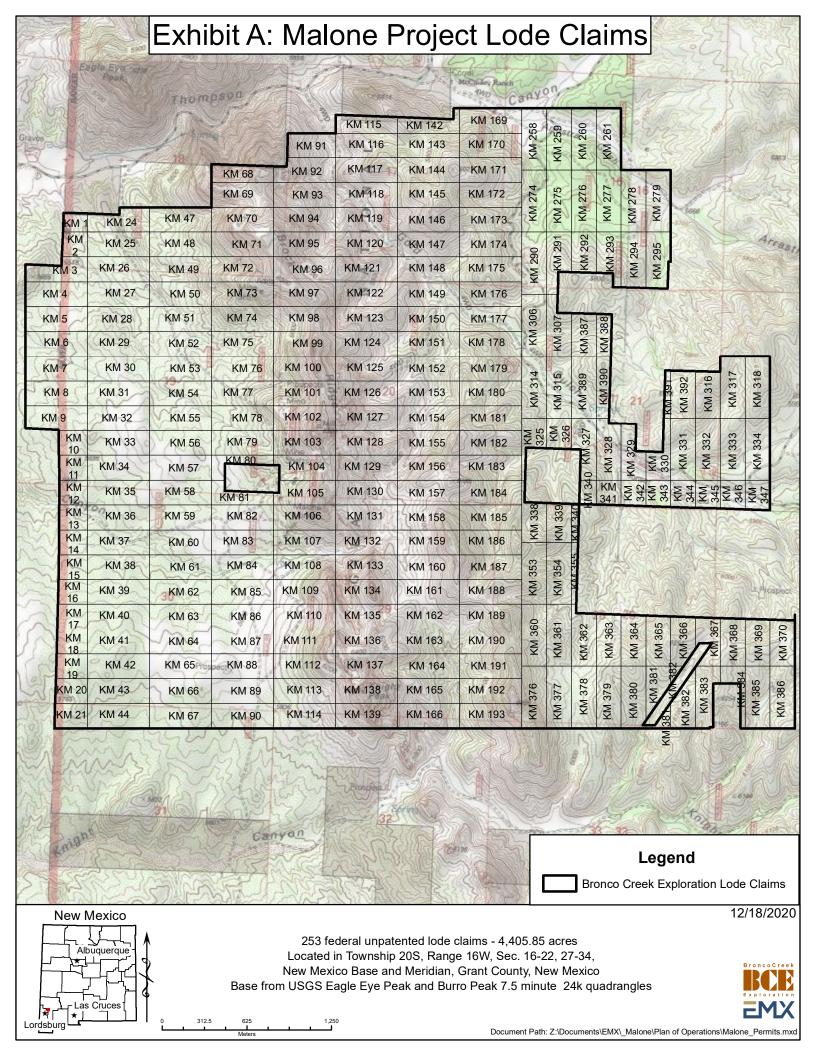
# SECTION 8 – PERMIT FEES AND FINANCIAL ASSURANCE (§302.I.2 AND 5)

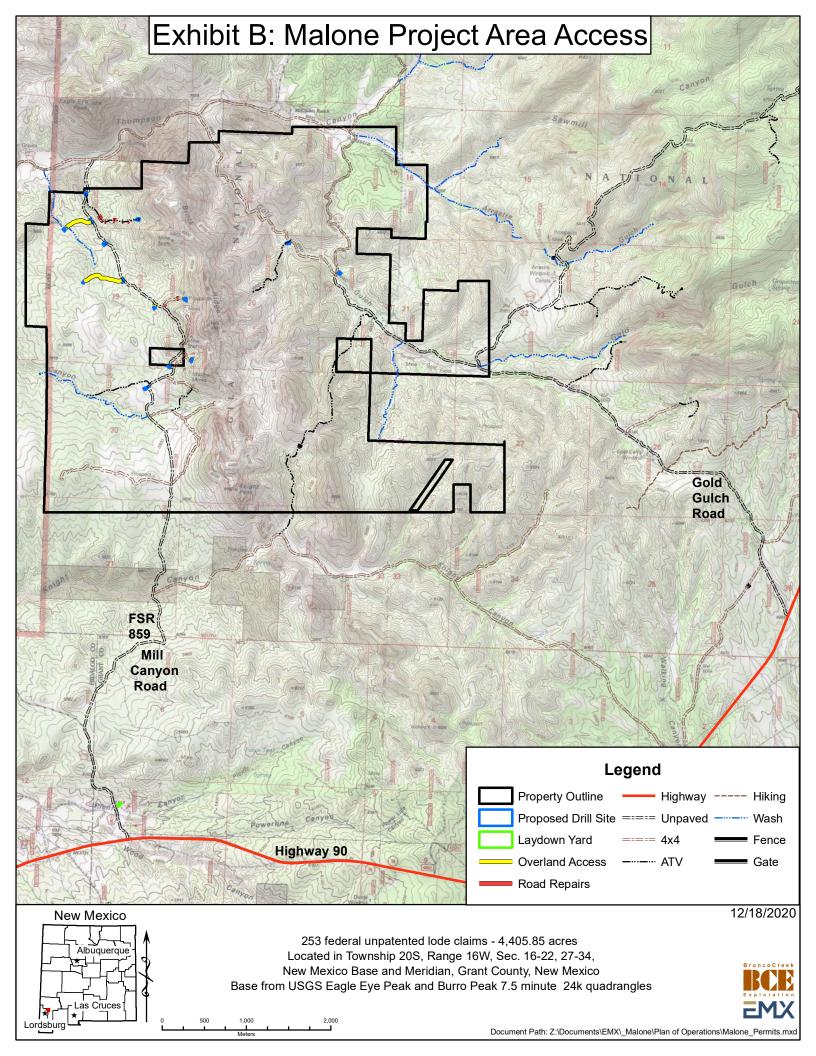
A.	Financial assurance must be posted with Mining and Minerals Division prior to approval of this application. The acceptable forms of financial assurance are surety bonds, letters of credit, and certificates of deposit. Provide an estimate of, and an instrument for, the proposed financial assurance required by Subpart 3.	
	☐ Surety Bond ☐ Letter of Credit ☐ Cash Account / Certificate of Deposit	
	Estimated amount of financial assurance:	
Or		
	X Applicant will provide the amount of financial assurance calculated by MMD.  Attach the permit fees as determined pursuant to Subpart 2. The application fee for minimal impact exploration permit is \$500.00.	
В.		
	<ul><li>☐ Money Order/Cashier's Check</li><li>X Check</li></ul>	
	Check Number :	
	Financial Institution:	

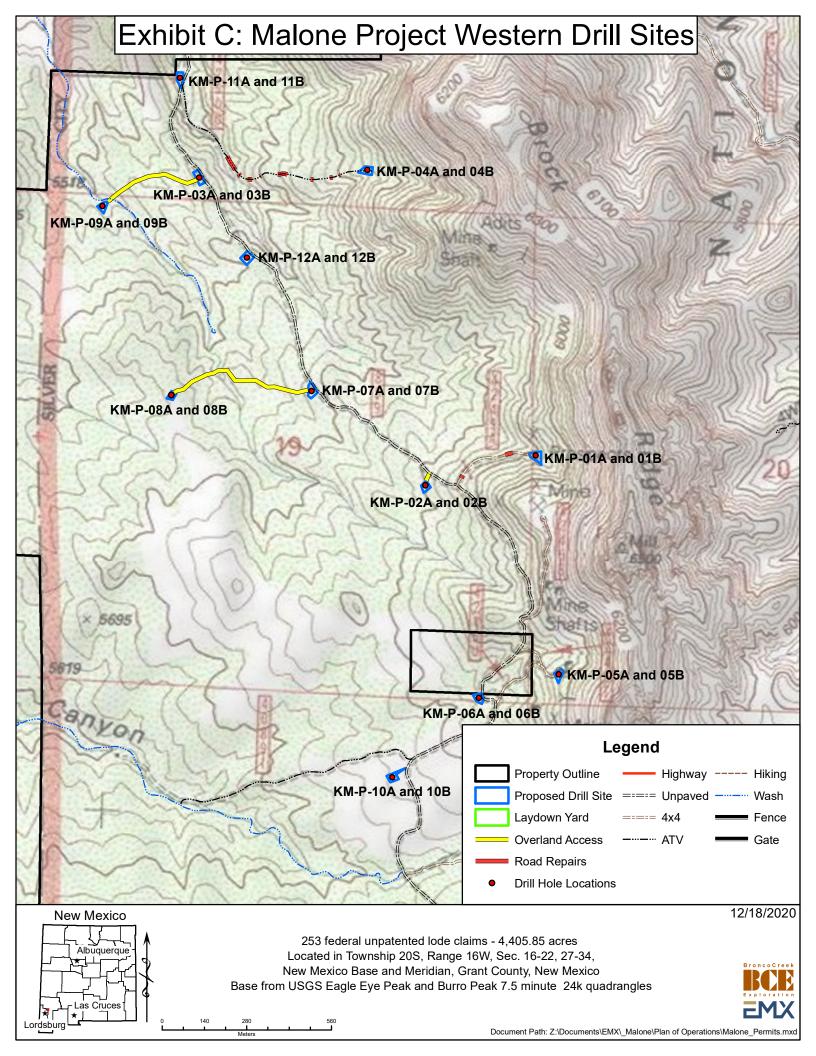
### SECTION 9 - CERTIFICATION REQUIREMENT (§302.I.3 & 4)

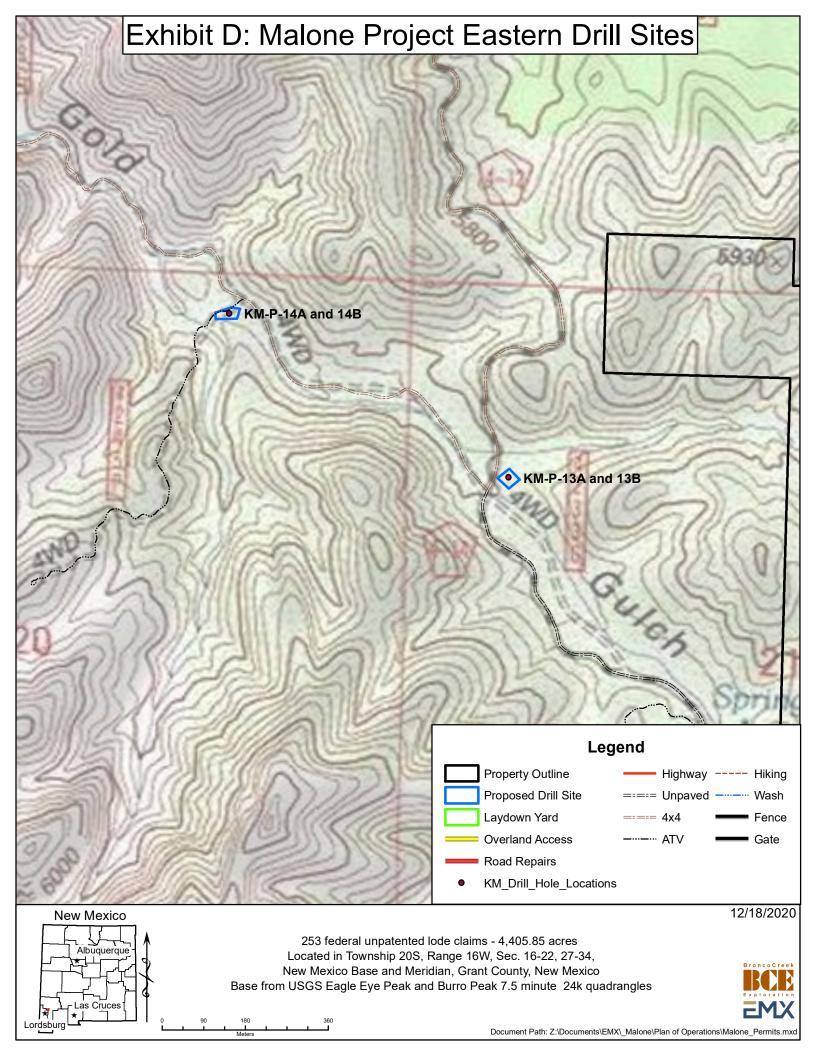
I certify that I have personally examined and am familiar with the information submitted herein, and based on my inquiry of those individuals responsible for obtaining the information; I believe the submitted information is true, accurate, and complete. I agree to comply with the reclamation requirements set forth in this permit application and related correspondence, the New Mexico Mining Act and the Rules. Further, I certify that I am not in violation of any other obligation under the New Mexico Mining Act or the Rules adopted pursuant to that Act and I allow the Director to enter the permit area, without delay, for the purposes of conducting inspections during exploration and reclamation.

Signature of Permittee or Authorized Agent:			
Name (type or print):	Caleb King		
Title/Position: Senior Geologist – Bronco Creek Exploration			
Date: 02/05/2021			









## **Exhibit E: Schematic Layout of Typical Core Drill Site** 100 Feet Canvas Storage Trailer Parts Trailer Water Tank Generator Diesel Water Truck RC Compressor Topsoil 100 Feet Access Road Stockpile Rod Truck Mud Tank & Mixer Centrifuge **Crew Trucks** Ramp Sump Portable Fill from Sump **Proposed Drill** Pad Extent \*May vary according to drilling conditions, site topography and site dimensions