**State of Montana**

**Department of Environmental Quality**

Mineral Exploration License Supplemental Information

**Please return this document via email to** **DEQSMESandExploration@mt.gov**

**SECTION A – APPLICATION INFORMATION**

Licensee Name (Person or Company):

Date Submitted:

Site Contact Name:

Address:

City:

State:  Zip Code:

Office Phone # Cell #

Email:

**Note: All official correspondence will be sent to the email provided above.**

Type of Application? **[ ] New License [ ] License Amendment**

**Additional information:**

The exploration license does not convey a right to occupy land not owned by the licensee. A licensee is responsible for obtaining and maintaining a lease or other authorization from the landowner to occupy the land on which the licensee is to conduct exploration activity. The Department of Environmental Quality (DEQ) does not confirm whether the licensee has obtained such authorization and does not resolve any disputes regarding access between a licensee and the landowner.

**SECTION B – PROJECT LOCATION**

1. Name of Project:
2. County where the proposed site is located:
3. Provide the latitude and longitude of the approximate center of the proposed operation in decimal degrees (example: 46.587857, -112.014253).
	1. Latitude:
	2. Longitude: **-**
4. Landowner Type: **[ ] Private [ ] BLM [ ] Forest Service [ ] County [ ] State**

 **[ ] Other:**

Landowner Contact (if not Private):

**SECTION C – PROJECT TIMELINE**

1. Proposed starting date of exploration:
2. Provide the Hours of Operation:

Shifts per day:

Hours per shift:

Total hours per day:

Total days per week:

Additional information:

1. Proposed ending date of exploration (mm/dd/yy):
2. Proposed date of complete reclamation: (mm/dd/yy):

**SECTION D – MAPPING**

1. **All Maps** - refer to Map Guideline for further information: <https://deq.mt.gov/mining/assistance>

All maps should have the following items:

* 1. Map Title
	2. Operator Name
	3. Site Name
	4. Bar Scale
	5. Date of Drafting
	6. North Arrow
	7. Legend identifying features (area map)
		1. Note: Legends are a useful tool used to explain what the symbols and line types denoted on a map represent. A legend defines the symbols or colors (including shades of gray and patterns) used on the map. It must be clear what each marker or line type, weight and pattern represents. Text cannot be used in lieu of displaying the symbol in the legend (e.g. black line = stockpile & green dot = soil test pit; are not acceptable). In addition, do not use shading on the map as it reduces the ability to view the aerial background.
1. **General Location Map** – The intent of this map is to provide a map showing the location of the proposed operation sufficient to allow the public to locate the proposed site. The General Location Map may be displayed on an aerial or topographic background and must show the site’s location in relation to the nearest town or city. Roads must be labeled from the nearest town to the site on the General Location Map.
2. **Project Map** – The intent of this map is to show the location of the proposed project with an aerial background. The map must be at a scale to adequately display the features of the project. The Project Map must display all project disturbances including but not limited to:
* New roads
* Overland travel routes
* Label all Trenches
* Label all Portals
* Label all Drill Pads
* Sump Locations (if outside of drill pad footprint)
* Buildings (existing, proposed and temporary)
* Camp Area
* Lay down/loadout area
* Fuel Storage Area
* Water Crossings
* Other features pertinent to the project

Provide as many Project Maps as necessary to depict the proposed area(s) at a viewable/readable scale.

**SECTION E – EXPLORATION METHODS AND DESCRIPTION**

1. Choose the exploration methods to be use for this project:

**[ ] Trenching [ ] Placer [ ] Drilling [ ] Underground**

**[ ] Other:**

1. Volume of material to be tested (applicable if Trenching, Placer or Underground is checked above):
2. Description of Project:

**SECTION F – PROJECT QUANTITIES AND DIMENSIONS**

1. Would exploration holes be drilled? **[ ] Yes [ ] No**

If **No**, skip to Section F4.

If **Yes**, provide the below information:

1. Drill Holes per site:
2. Total number of Drill Holes:
3. Fill out and attach the Supplemental Drill Hole Table (Appendix A)
4. Total depth of all Drill Hole (from Appendix A): **ft**
5. Would Drill Pads be used? **[ ] Yes [ ] No**

If **No**, skip to Section F3.

If **Yes**, provide the information below (identify drill pad locations on Project Map):

* 1. Number of Drill Pads:
	2. Dimensions of Drill Pads:
		1. Length of Drill Pad: **ft**
		2. Width of Drill Pad:**ft**
		3. Depth of Drill Pad: **ft**
1. Would Drill Sumps be used? **[ ] Yes [ ] No**

If **No**, skip to Section F4.
If **Yes**, provide the information below:

1. Would Drill Sumps be located within the footprint of the Drill Pad? **[ ] Yes [ ] No**
	* 1. If **No**, identify sump locations on Project Map.
2. Number of Drill Sumps per drill pad:
3. Dimensions of Drill Sumps:
	* 1. Length of Drill Sump **ft**
		2. Width of Drill Sump**ft**
		3. Depth of Drill Sump **ft**
4. Would there be Trenches/Pits? **[ ] Yes [ ] No**

If **No**, skip to Section F5.

If **Yes**, provide the information below (identify Trench/Pit locations on Project Map):

1. Number of Trenches/Pits:
2. Dimensions of Trenches/Pits:
	1. Length of Trenches/Pits: **ft**
	2. Width of Trenches/Pits: **ft**
	3. Depth of Trenches/Pits:**ft**
3. Would there be Waste Rock Stockpiles? **[ ] Yes [ ] No**

If **No**, skip to Section F6.

If **Yes**, provide the below information (identify Waste Rock Stockpile locations on Project Map):

1. Number of Waste Rock Stockpiles:
2. Average volume of Waste Rock Stockpiles: **cubic yards**
3. Would new Roads be constructed? **[ ] Yes [ ] No**

If **No**, skip to Section F7.

If **Yes**, provide the information below (identify Road locations on Project Map):

1. Dimensions of Roads (Note: Drill roads must be constructed to meet the requirements of [ARM 17.4.104](https://rules.mt.gov/gateway/RuleNo.asp?RN=17%2E24%2E104)):
2. Total length of Roads: **ft**
3. Width of Roads: **ft**
4. Average depth of roads: **ft**
5. Would new Overland Travel be utilized? **[ ] Yes [ ] No**

If **No**, skip to Section F8.

If **Yes**, provide the information below (identify Overland Travel locations on Project Map):

1. Dimensions of Overland Travel:
2. Total length of Overland Travel: **ft**
3. Width of Overland Travel: **ft**
4. Would a Laydown Area be used to store supplies, materials, etc.? **[ ] Yes [ ] No**

If **No**, skip to Section F9.

If **Yes**, provide the information below (identify Laydown Area location on Project Map):

1. Would the Laydown Area be located in another disturbance (drill pad, road pullout, etc)?

**[ ] Yes [ ] No**

* 1. If **Yes**, identify the location on Project Map.
	2. If **No**, complete “b” below and identify location on Project Map.
1. Dimensions of Laydown Area:
2. Length of Laydown Area: **ft**
3. Width of Laydown Area: **ft**
4. Would personnel be housed on site in a Camp Area? **[ ] Yes [ ] No**

If **No**, please provide a description of where personnel would be housed:

If **Yes**, provide the information below (identify Camp Area location on Project Map):

1. Dimensions of Camp Area:
2. Length of Camp Area: **ft**
3. Width of Camp Area:  **ft**
4. List vehicles, trailers, tents, portable toilets, etc. that would be located in the Camp Area:

1. Dates of camp area occupation:
2. Arrival date:
3. Departure date:
4. Check boxes for any applicable features and provide required information:
5. **[ ]** Culverts (identify Culvert locations on Project Map)
	* 1. Number of Culverts
		2. Size of Culverts
6. **[ ]** Slash Piles
	* 1. Describe features and location
7. **[ ]** Heli-Pads
	* 1. Describe features and location
8. **[ ]** Other Describe features and location

**SECTION G – PROJECT OPERATIONAL ELEMENTS**

1. Equipment and Vehicles – What equipment would be used at the site?
	1. **[ ]** Drill Rigs
		1. Quantity:
		2. Description:
	2. **[ ]** Water Trucks
		1. Quantity:
		2. Capacity: gallons
	3. **[ ]** Fuel Trucks
		1. Quantity:
		2. Capacity: gallons
	4. **[ ]** Excavators
		1. Quantity
	5. **[ ]** Backhoe
		1. Quantity
	6. **[ ]** Haul Trucks
		1. Quantity
	7. **[ ]** Skid Steer
		1. Quantity
	8. **[ ]** ATV/UTV
		1. Quantity
	9. **[ ]** Portable Generators
		1. Quantity
	10. **[ ]** Wash Plants
		1. Capacity
	11. **[ ]** Passenger Vehicles
		1. Quantity
	12. **[ ]** Other
2. Structures – Identify any temporary and permanent structures that would be on site:
	1. **[ ]** Core Sheds
	2. **[ ]** Storage Containers/Trailers
	3. **[ ]** Campers
	4. **[ ]** Tents
	5. **[ ]** Saw Shacks
	6. **[ ]** Warehouses
	7. **[ ]** Water Lines
	8. **[ ]** Fuel Tanks
	9. **[ ]** Water Tanks
	10. **[ ]** Portable Toilets
	11. **[ ]** Water Pumps
	12. **[ ]** Other
3. Onsite Personnel:
	1. Number of personnel involved in project:
	2. Name & Positions of personal involved in project
		1. Position: Quantity
		2. Position: Quantity
		3. Position: Quantity
		4. Position: Quantity
		5. Position: Quantity
		6. Position: Quantity
		7. Position: Quantity
		8. Other:
4. Would water be used in the operation? **[ ] Yes [ ] No**

If **No**, skip to Section G5.

If **Yes**, provide the information below:

* 1. Describe the water source:
	2. Describe the method of transport to project:
	3. Estimated quantity of water to be used on the project per day: **gallons**
1. Would supplemental lighting be required? **[ ] Yes [ ] No**

If **No**, skip to Section G6.

If **Yes**, provide the information below:

* 1. What type of lighting would be used?
	2. What hours of day/night would the lights be used?
	3. How would light pollution be controlled?
		1. **[ ]** Down facing lights
		2. **[ ]** Light shrouds/shields
		3. **[ ]** Direction lighting
		4. **[ ]** Motion sensors
		5. **[ ]** Automatic timers
		6. Other:
1. Air Quality - Identify measures proposed to minimize impacts on air quality.
	1. **[ ]** Water
	2. **[ ]** Mag Chloride
	3. **[ ]** Exhaust controls
	4. **[ ]** Controlled slash burning
	5. **[ ]** Reduced speed while travelling
	6. **[ ]** Other:
2. Erosion Control – What measures would be taken to control erosion?
	1. **[ ]** Erosion Control Blankets
	2. **[ ]** Straw Bales
	3. **[ ]** Vegetated Buffer Strip
	4. **[ ]** Wattles
	5. **[ ]** Other:
	6. Describe how erosion controls would be used:

1. Solid Waste
	1. Describe how solid waste would be stored onsite until it could be disposed of:

* 1. Describe its location and design of the storage facility:

* 1. Where would the solid waste be disposed of?

1. Historic and archeological resources – Please describe any measures that would be taken to reduce the impact to any historical and archeological resources that are encountered?

1. Hazardous Substances – Identify the type, volume, and storage of all hazardous materials and toxic substances which would be used or generated in the operations
2. **[ ]** Cyanide – Volume and storage:
3. **[ ]** Solvents - Volume and storage:
4. **[ ]** Petroleum products - Volume and storage:
5. **[ ]** Millings - Volume and storage:
6. **[ ]** Process and laboratory reagents - Volume and storage:
7. **[ ]** Explosives - Volume and storage:
8. **[ ]** Other-Type - Volume and storage:

**SECTION H – RECLAMATION**

1. Weed Control Plan
	1. Describe how noxious weeds would be controlled before reclamation:

* 1. Describe how noxious weeds would be controlled after reclamation:

1. Reclamation Plan
	1. Describe ongoing reclamation of the site:

* 1. Describe “end-of-season” reclamation:

* 1. Describe final reclamation of the site:

1. Proposed timeline for completing reclamation (fill in applicable elements):
	1. Dirt work (backfilling/regrading trenches, roads, pits, sumps, drill pads, etc.):

* + 1. Would any surface disturbances remain unreclaimed? **[ ] Yes [ ] No**

If **No**, skip to Section H3b.

If **Yes**, explain the future purpose of the unreclaimed disturbance?

* 1. Plugging drill holes (Note: Drill holes must be plugged according to the requirements of [ARM 17.24.106](https://rules.mt.gov/gateway/RuleNo.asp?RN=17%2E24%2E106)):

* + 1. Would any drill holes remain unplugged? **[ ] Yes [ ] No**

If **No**, skip to Section H3c.

If **Yes**, explain the future purpose of the remaining drill holes?

* 1. Revegetation:

1. Would all structures identified in G2 be removed? **[ ] Yes [ ] No**

If **No**, skip to Section I.

If **Yes**, which structures would remain?

1. **[ ]** Core Sheds
2. **[ ]** Storage Containers/Trailers
3. **[ ]** Campers
4. **[ ]** Tents
5. **[ ]** Saw Shacks
6. **[ ]** Warehouses
7. **[ ]** Water Lines
8. **[ ]** Tanks
9. **[ ]** Portable Toilets
10. **[ ]** Water Pumps

**[ ]** Other

1. **BOND ESTIMATE**: Please be advised that all information provided in Sections F through J will be used to calculate the required reclamation bond for the proposed activities.

**SECTION I – OTHER PERMITS**

**THIS MAY NOT BE THE ONLY LICENSE OR PERMIT YOU NEED**

**State of Montana Authorizations**

**310 Permit** –For work proposed in streams, wetlands, floodplains, and other water bodies. One joint application form is available to apply for several different Local/State/Federal permits.

 See: <http://dnrc.mt.gov/divisions/cardd/conservation-districts/the-310-law>

**Montana Water Rights:** <http://dnrc.mt.gov/divisions/water/water-rights>

**Montana Pollutant Discharge Elimination System (MPDES) Permit** – for projects that have a surface water discharge.

 See: <https://deq.mt.gov/water/assistance>

**Montana Ground Water Pollution Control System (MGWPCS) Permit** – for projects that have a groundwater discharge.

 See: <https://deq.mt.gov/water/assistance>

**Stormwater Permit** – for projects that have the potential to contribute sediment or pollution to surface waters from surface disturbances as a result of a storm event.

 See: <https://deq.mt.gov/water/assistance>

**Suction Dredge Permit** – for projects that utilize a suction dredge.

 See: <http://deq.mt.gov/Water/WPB/mpdes/suctiondredge>

**Sage Grouse** – In response to Senate Bill 261 and Executive Orders 10-2014 and 12-2015, many DEQ permits and approvals in sage grouse core, general, or connectivity habitat, received on or after January 1, 2016, must include a letter of comment from the [Sage Grouse Habitat Conservation Program](https://sagegrouse.mt.gov/).

 See: <https://sagegrouse.mt.gov/>

**Federal Authorizations**

**USFS** – Contact local USFS office. See: <https://www.fs.usda.gov/r1/>

**BLM** – Contact local BLM office. See: <https://www.blm.gov/montana-dakotas>

**811 – Before You Dig:** <https://call811.com/>

**US Army Corp of Engineers 404 Permit** – may be required for any work in streams or wetlands See: <http://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/Obtain-a-Permit/>