



STATE OF ALASKA

Multi Agency Permit Application

FOR HARDROCK EXPLORATION OPERATIONS (AHEA) FOR EXPLORATION PERMITS; RECLAMATION PLAN APPROVAL; LAND USE PERMITS (SURFACE STRUCTURES; EQUIPMENT ACCESS); WATER USE AUTHORIZATION

GENERAL: To conduct hardrock exploration activities in the State of Alaska, permits and licenses may be required from several State and Federal agencies. This application, when completed, will be distributed by the Alaska Department of Natural Resources (ADNR), Division of Mining, Land & Water (DMLW), Mining Section (DNR-Mining) to those agencies involved in the permitting process.

OPERATIONAL PERMITS: For most exploration operations, the completion of this form should satisfy the application requirements for the following permits. Once you file your application, it will be reviewed by DNR-Mining and distributed online to the other agencies. Each agency will download and review your application and issue their permit. **Do not assume that you have all permits you require. We suggest that you contact each agency to make sure your application has been received and processed.**

■ DNR-Mining:

- Miscellaneous Land Use Permit (MLUP); Approved Plan of Operation (exploration activity on State upland mining leases and claims); and Reclamation Plan of Approval for an Exploration Operation.
- Winter Cross Country Travel. Applications must be submitted 4 weeks prior to commencement of travel.

■ DNR – DMLW – Land Section (DNR-Lands): Miscellaneous Land Use Permit (Access/Surface Activity on State Land Other Than Mining Claims), including summer cross country travel. Summer cross country travel permits can take 60-90 days to process. Submit applications early.

■ DNR – DMLW – Water Section (DNR-Water): Water Use Authorization.

■ Alaska Department of Fish & Game (ADF&G): Fish Habitat Permit (Title 16)

■ Bureau of Land Management (BLM): Notice of Plan of Operation. Read the BLM Instructional Supplement to determine information requirements beyond this application at <http://www.blm.gov/ak/st/en/prog/minerals.html>

OTHER PERMITS OR INFORMATION THAT MAY BE REQUIRED:

■ DEC Individual Permit – Separate application may be required for operations that do not qualify for the general permit. For their qualifications, contact Tim Pilon at (907) 451-2136, tim.pilon@alaska.gov or Nick Dallman (907) 451-2142, nicholas.dallman@alaska.gov

■ Notice of Operator Authorization Form (NOOA) – Operators on State land, not recorded as owners, need to submit a NOOA with their application. NOOA form (nooa.pdf) is available at <http://dnr.alaska.gov/mlw/forms/13apma/>

■ U.S. Army Corps of Engineers (USACE): Nationwide Permit # 6 for Survey Activities allows core sampling, exploration trenches and temporary pads. Read USACE Fact Sheet for more information on permitting options for exploration activities (link to Fact Sheet from <http://dnr.alaska.gov/mlw/forms/?tab=mining>)

■ USACE Individual Permit - Separate application may be required for activities in wetlands or other waters of the United States which exceed impacts of thresholds allowed by nationwide permits, such as permanent roads or structures. For more information see www.poa.usace.army.mil or call 1-800-478-2712 (within Alaska), or Anchorage (907) 753 -2712, or Fairbanks (907) 474-2166.

■ Department of Revenue: Alaska Mining License (DOR) – It is a license for purposes of the mining license tax, **not** a license to mine. Non-compliance with mining license tax requirements can result in financial penalties. If you sell gold or other precious metals a mining license is required. If you have questions, contact Sarah Wilson, (907) 269-1017 sarah.wilson@alaska.gov.

RECLAMATION: Applications must be submitted early to assure the issuance of permits and approval of reclamation plans before commencement of field operations (for DNR-Mining, the AHEA is considered to be the proposed Reclamation Plan). In accordance with Alaska Statute 27.19, an applicant may not engage in mining-related exploration activity involving five or more acres of disturbance on State land, until a reclamation plan has been approved. Operations under five acres must submit a Letter of Intent to Conduct Reclamation by checking the appropriate box on the Reclamation Page (Section 28) and file an Annual Reclamation Statement no later than December 31st. All operations on State lands must receive either a Miscellaneous Land Use Permit or a Plan of Operations approval prior to commencement of field activities. **All** plans and notices on BLM managed lands per 43 CFR 3809.10 require a separate reclamation plan to be filed with BLM.

BONDING: All mining-related exploration operations, with a disturbance of five acres or more on State land, must be bonded per Alaska Statute 27.19. The "State Wide Bond Pool Form", included with this packet, may be submitted with the exploration application to satisfy this requirement or evidence of an individual performance bond may be submitted. Operations of less than five acres of disturbance on State land normally do not require bonding. **If your operation involves federal land, you must obtain Bureau of Land Management (BLM) approval of your bond pool form prior to submission of the application to the DMLW.** BLM requires bonding for all disturbances, including haul roads and camps.

AMENDED PLANS: Changes in operation must be submitted in writing and approved in advance before the start of such activity.

FEES: A **\$150.00** processing fee is charged when an AHEA is submitted and thereafter \$50.00 is charged for each amendment to the application.

- "Multi-Year" Miscellaneous Land Use Permits and Reclamation Plan Approval and Approved Plan of Operations (for up to five years): **\$150.00 payable when AHEA is submitted and a discounted \$50.00 fee for each additional year.**
- Make check or money order payable to "**DEPARTMENT OF NATURAL RESOURCES.**"

STRUCTURES/CAMP FACILITIES: The placement and use of all surface structures must be requested and approved in advance and described in detail. Structures must be necessary for the exploration activity and will be temporary in nature, without permanent foundations. Recreational cabins and commercial recreation businesses are not authorized under mining law. Separate authorization for these activities must be acquired from DNR-Lands. **Please note that fill discharged in wetlands or other waters of the U.S. for camp construction may require a separate USACE permit.**

INTERAGENCY SUPPLEMENTAL FORMS AND DOCUMENTS ARE AVAILABLE AT:

<http://dnr.alaska.gov/mlw/forms/?tab=mining>

****** NEW REQUIREMENT FOR ELECTRONIC SUBMISSION ******

If an applicant is requesting authorization to conduct permitted activities on more than 12 claims, planning to drill more than 5 holes, excavate more than 5 trenches, use more than 5 water take points or conduct in-stream activities in more than 5 locations, then the tabular information will be required in electronic MSEXcel format. A MSEXcel template is downloadable at: <http://dnr.alaska.gov/mlw/forms/?tab=mining>. **Please use the MS Excel Workbook provided by DNR-Mining.** Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet.

SUBMIT COMPLETED APPLICATIONS TO ONE OF THE OFFICES BELOW:

Deliver To:	State Division of Mining, Land & Water or 550 W. 7 th Ave. Suite 900B Anchorage, AK 99501-3577	State Division of Mining, Land & Water 3700 Airport Way Fairbanks, AK 99709-4699
Telephone:	(907) 269-8647 or (907) 269-5916	(907) 458-6896 or (907) 451-2774 or (907) 451-2791
FAX:	(907) 269-8949	(907) 451-2703

AHEA INSTRUCTIONS AND CHECKLIST

Applications are processed in the order they are received. **Applications submitted after May 1 may not be processed before the start of the exploration season.** Applicants who need winter cross country travel need to submit their application 4 weeks before the planned travel.

PREPARATION OF APPLICATION: State mining regulations require applications to be completed in ink or typed. All sections **MUST** be completed. **If it is not applicable to the operation, then indicate by "N/A". Sketches must include all components listed on the sketch checklist -- again, indicate "N/A" if a component does not apply.**

ATTACHMENTS: Attachments to your application can be in black and white or color and should measure at least 8 1/2" x 11" in size. Over size or color attachments, required to clarify complex operations, may be provided by the applicant in addition to the 8 1/2" x 11" size used to meet distribution requirements.

SUPPLEMENTAL TABULAR DATA: If an applicant is requesting authorization to conduct permitted activities on more than 12 claims, planning to drill more than 5 holes, excavate more than 5 trenches, use more than 5 water take points or conduct in-stream activities in more than 5 locations, then the tabular information will be required in electronic MSExcel format. A MSExcel template is downloadable at: <http://dnr.alaska.gov/mlw/forms/?tab=mining>. **Please use the MS Excel Workbook provided by DNR-Mining.** Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet.

CHECKLIST: Please review the following checklist and make certain all applicable items are included before submitting the application -- **INCOMPLETE APPLICATIONS WILL BE RETURNED.**

-] Is the applicable processing fee enclosed?
-] Are all sections on the application completed? Write "N/A" or "DOES NOT APPLY" or draw a diagonal line through any sections, which do not apply.
-] Completed, current, readable sketch and narrative of proposed operation. Include all items listed on sketch checklist.
-] Reclamation page signed and dated with the appropriate boxes checked: Reclamation Plan (section 28)
-] Signed and dated Annual Reclamation Report for Hardrock Exploration. See report instructions in packet.
-] Notice of Operator Authorization form -- If you are operating on State mineral locations and are not an owner of the property being worked.
-] Completed State Wide Bond Pool Form or State Wide Bond Pool Renewal Form, if applicable. Include signed BLM approval if Federal claims are listed on the AHEA.
-] Applicable reclamation bonding fees.
-] Multi-Year Hardrock Exploration Permit Holder -- **the following forms must be submitted annually:**
 -] Signed Annual Reclamation Plan (section 27)
 -] Signed Bond Renewal Form – with appropriate fees, if disturbance is equal to or greater than 5 acres on State or Private land or any disturbance on BLM land.
 -] Signed Annual Reclamation Report (See instructions near end of application)
 -] Supplemental tabular data (See Instructions above)
-] MSDS sheets for all drilling fluids.
-] Exploration plan narrative attached. (See instructions near end of application)
-] All attachments (paper or electronic) included
-] Are applicable maps listed below enclosed?

PLAN MAP OF OPERATION: See instructions for completing plan of operations sketch map and description of operation near back of application packet.

ACCESS MAPS: Include the appropriate U.S. Geological Survey (USGS) topographic map or maps at a scale of one inch equals one mile (1:63,360) overlain with the proposed access route. Identify **entire** access route to your claim block from a major road system, airstrip, or boat landing. Reproduced portions of maps in 8 1/2" x 11" size are acceptable, **provided they are readable and suitable for copying.** Each map should be clearly identified with: 1) USGS identifier, i.e. Fairbanks A-3; and 2) all legal descriptions (townships and ranges involving the route). List all named and unnamed streams crossed by the access route.

CLAIMS LOCATION MAP: Include a USGS topographic map at a scale of one inch equals one mile (1:63,360), illustrating: location; claim name; claim number; camp location; airstrips; legal description; and appropriate USGS map identifier. Identify those claims with existing disturbance and those on which activity will take place this season.

INCOMPLETE APPLICATIONS WILL BE RETURNED

For DNR internal use only:
 Reviewed by: _____
 Date: _____

STATE OF ALASKA
Multi-Agency Permit Application (AHEA)
HARDROCK EXPLORATION

Multi-year start year: _____ end year: _____ AHEA Number: _____

APPLICANT AND SITE INFORMATION

What type activity are you planning to perform? (1) <input type="checkbox"/> Exploration / Reclamation <input type="checkbox"/> Reclamation <input type="checkbox"/> Access Equipment	Are the mineral properties: (2) <input type="checkbox"/> State (General) <input type="checkbox"/> State (Mental Health) <input type="checkbox"/> Private (Patented) <input type="checkbox"/> Federal <input type="checkbox"/> Private (Native Corp. Land)
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Check, as appropriate, and indicate permit number, if any of the following agencies have issued permits for these mineral properties: **(3)**

DNR-Water TWUP/ADL/LAS No: _____

DEC- APDES Wastewater Discharge Permit No: _____

ADF&G – Habitat Permit No: _FH-_____ Date expires _____

BLM - “Notice” _____ “Authorization” _____ “Occupancy” _____

USACE Permit No(s) POA- _____ - _____, POA- _____ - _____

Other State or Federal Permit No: _____

Name of ALL Mineral Property (4) Owners: (Attach Separate Sheet As Necessary)	Lessee: (5)	Operator: (6)
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Mailing Address for official correspondence:	Mailing Address for official correspondence:	Mailing Address for official correspondence:
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Home Phone (Winter):	Home Phone (Winter):	Home Phone (Winter):
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Work Phone (Winter):	Work Phone (Winter):	Work Phone (Winter):
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Home Phone (Summer):	Home Phone (Summer):	Home Phone (Summer):
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Work Phone (Summer):	Work Phone (Summer):	Work Phone (Summer):
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Cell/Satellite Phone:	Cell/Satellite Phone:	Cell/Satellite Phone:
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FAX:	FAX:	FAX:
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E-mail:	E-mail:	E-mail:
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Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____
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Operator's Federal EIN Number: (7)	Number of Workers: (8)	Intended Start-up/Shut Down (Month/Dav) (9) _____ to _____
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Mining District: (10)	Applicable USGS Quad Map: (11)	On What Stream Is This Activity? (12)
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LEGAL DESCRIPTION of Mineral Properties To Be Worked (Township, Range, Section, Meridian): **(13)**

Legal Description of all other project-related activities, such as camps and water access (Township, Range, Section, Meridian):

LIST ONLY MINERAL PROPERTIES WITH CURRENT DISTURBANCE AND/OR THOSE ON WHICH PERMITTED ACTIVITIES WILL OCCUR **(14)**

Attach additional sheets as necessary AND provide in electronic, tabular format if you are submitting more than 12 properties
 DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>. See AHEA INSTRUCTIONS AND CHECKLIST

	ADL/BLM/USMS #	PROPERTY NAME		ADL/BLM/USMS #	PROPERTY NAME
1.			7.		
2.			8.		
3.			9.		
4.			10.		
5.			11.		
6.			12.		

DESCRIPTION OF EQUIPMENT

(15)

List equipment to be used that is not listed in section 16. Indicate equipment type, size, purpose, and number of each, including pumps.

IN-STREAM ACTIVITIES and STREAM CROSSINGS

(16)

List any equipment that will be crossing streams during exploration activities.

List any equipment that will be used in the stream during exploration activity.

Describe method(s) used to prevent fish entrapment.

	Stream Name	NAD 83 Datum Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/MapAK/		MTRSC ¼ ¼ Ex: F001S001N01 SWSW	Check boxes to indicate type(s) of activity	
		Latitude ddd.mmmm	Longitude -ddd.mmmm		Crossing	Pump intake
1.						
2.						
3.						
4.						
5.						

If in-stream activities and/or stream crossings are requested at more than 5 locations, please provide data in tabular format (DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>). See AHEA INSTRUCTIONS AND CHECKLIST

Winter Cross Country Travel continued:

(section 17 continued)

Will water be required to construct ramps/ ice bridges? Yes No.

If Yes, estimated quantity of water will be used _____ gallons/day Indicate crossing location in section 16.

If you are transporting equipment and/or fuel and require **winter** cross country travel authorization, please complete the following:

List all equipment and vehicles being transported:

Are you transporting fuel? Yes No If "yes", indicate type and amount:

Are you transporting other petroleum products? Yes No If "yes", indicate type and amount:

How are the fuel/petroleum products contained? (i.e., drums, bladders, steel tanks, etc.) Indicate size of each container:

How are the fuel/petroleum products being transported (i.e., skid-mounted tank; trailer; 55 gallon drums on skid; tanker truck, etc.)?

Indicate proposed dates for each period of cross country travel (**apply at least 4 weeks prior to start of travel**):

NOTE: All cross-country travel must be specifically authorized by the appropriate land manager(s) prior to the commencement of travel. Travel may not be authorized if trail conditions indicate damage could occur.

EXPLORATION NARRATIVE

(18)

Are exploration plan narrative and maps (Plan of operation, access and claim location maps) attached?

Yes No.

See exploration plan narrative and map checklists near the back of the application.

OVERBURDEN

(19)

Has this site been previously mined? Yes No

Type: None Gravel, Average Depth: _____ Feet Organic Material, Average Depth: _____ Feet

EXPLORATION TRENCHING

(20)

(Indicate Trench Locations On Sketch Sheet or Topographic Map)

Estimated Number of trenches to be excavated: _____

Type of Equipment to be Used: _____

Average Size: Length: _____ Feet Width: _____ Feet Depth: _____ Feet

How long will trenches be open? _____

Trench Location and Mining Claim Information

Trench ID on Map	ADL/BLM/USMS NUMBER	NAD 83 Datum - Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/MapAK/ .	
		Latitude	Longitude

If more than 5 trenches will be excavated, please provide data in tabular format (DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>. See AHEA INSTRUCTIONS AND CHECKLIST)

EXPLORATION DRILLING

(21)

(Indicate Locations On Sketch Sheet or Topographic Map)

Number of Holes To Be Drilled: _____ Type of Drill Used: _____

Estimated Maximum Depth: _____ Feet Diameter of Holes: _____ Inches

Will water be used? [] Yes [] No

How Will Drill Holes Be Plugged Upon Completion? _____

Drill Hole Location and Mining Claim Information

Drill Hole ID on Map	ADL/BLM/USMS NUMBER	NAD 83 Datum - Coordinates can be obtained using Alaska Mapper. http://dnr.alaska.gov/MapAK/ .	
		Latitude	Longitude

If more than 5 holes will be drilled, please provide data in tabular format (DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>. See AHEA INSTRUCTIONS AND CHECKLIST)

Drill locations, water source, pump intake, output, hose/pipe length must be noted on map AND in a narrative

PLEASE PROVIDE MATERIALS SAFETY DATA SHEETS FOR ALL DRILLING ADDITIVES TO BE USED WITH YOUR APPLICATION (e-mail or hardcopy submissions will be accepted).

EXPLOSIVES**(22)**Will Explosives Be Used? Yes No If "Yes", Indicate: Type: _____ Amount: _____**STRUCTURES / FACILITIES****(23)**

(Placement and use of any surface structure must be requested in writing and approved in advance)

(Include location, claim name and number, on sketch sheet and topographic map)

(An active AHEA must be maintained for structures to remain authorized. (AS 38.05.255(a)).

 Camp authorization not required

If camp is on private land, provide camp contact and location information below.

Camp name: _____

Camp location: _____

Camp contact phone: _____

 Request use of existing facilities **(Indicate number and size of each):**

Area of Camp: Length _____ Feet Width _____ Feet

 Frame _____ Trailer _____ Tent/Tent Frame _____ Request authorization to place temporary structures **(Indicate number and size of each):**

Area of Camp: Length _____ Feet Width _____ Feet

 Frame _____ Trailer _____ Tent/Tent Frame _____In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to conducting permitted activities – If you have questions please contact Mark Rollins of SHPO at (907) 269-8722 or mark.rollins@alaska.gov**FUEL****(24)**

Total Volume of Fuel Stored in 55 Gallon or Larger Containers: _____ Gallons

Projects with cumulative fuel volume on site larger than 1320 gallons must meet EPA Spill Prevention Control and Countermeasures (SPCC) regulations 40 CFR 112. Fuel volumes larger than 10,000 gallons must have a SPCC plan certified by a professional engineer. For additional information on approvable SPCC plans see

<http://www.epa.gov/osweroe1/content/spcc/> or contact Matthew Carr of EPA at (907) 271-3616 or Carr.Matthew@epa.gov.For operations on BLM Managed Lands: Even when an EPA SPCC is not required a BLM spill contingency plan, consistent with the quantity and location of the fuel used on site is required. BLM contingency plan requirements are available at <http://www.blm.gov/ak/st/en/prog/minerals.html>

Indicate Distance Stored From Flowing Waters: _____ Feet (Minimum distance from naturally occurring water bodies required by DNR is 100 feet).

Are Fuel Containment Berms Around Storage Containers? Yes No Is Berm Area Lined? Yes No

CAMP WATER USE AUTHORIZATIONS**(25)**

Water usage (including water used in a 100% recycle system) may require authorization by either a Temporary Water Use Permit or a Water Rights Permit or Certificate

Do you currently have a Temporary Water Use Authorization, Water Rights Permit or Certificate? Yes No

If yes, please indicate TWUP/ADL/LAS number in section 3 of this application.

If no, please contact a Division of Mining, Land & Water, Water Resource Section in Fairbanks @ (907) 451-2790

Water required for camp use Yes No

Quantity of water required for camp use _____ gpd.

Camp water source: Well Haul Stream Spring Lake

Name of water source (if applicable): _____

Latitude _____ Longitude _____ NAD 83 Datum

Or Meridian: _____ Township: _____ Range: _____ Section: _____

Camp pump intake diameter _____ Camp pump rate _____ gpm

Maximum Pump Rate for any pumps operated within a stream or lake _____ gpm

Screened Intake Structure Type: Screened Box Screened Cylinder

Screened Intake Dimensions:

(length / width / height if screened box OR length / diameter if cylinder): _____

Screened Intake outer Mesh Size: _____

Note: A common method used for pumping rates of 30 gallons per minute or lower is to cut/drill 0.25 inch (1/4 inch) holes in the side of a 5-gallon bucket, weight it with rocks in the bottom, and secure the intake in the bucket. ADF&G will provide additional specifications depending on your specific withdrawal location. For higher pump rates consult the ADF&G webpage <http://www.adfg.alaska.gov/index.cfm?adfg=uselicense.withdrawal> and Technical Report No. 97-8

(http://www.adfg.alaska.gov/static/license/uselicense/pdfs/97_08.pdf) or contact your local ADF&G Division of Habitat office.

DRILL WATER USE AUTHORIZATIONS

(26)

No Drill Water required

Check if amount of drill water, pump rate and intake diameter is the same for all water sources

	Water Source ID on map	Drill Hole ID(s) from BOX # 21	Water Source Type (well, river, stream, pond or lake)	Water Source Name (name of river, stream, pond or lake)	NAD 83 Datum Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/MapAK/		MTRS ¼ ¼ Ex: F001S001N01 SWSW	Estimate amount of drill water	Pump intake diameter	Pump rate in GPM
					Latitude ddd.mmmmm	Longitude -ddd.mmmmm				
1.										
2.										
3.										
4.										
5.										

If more than 5 water take points are requested, please provide drill water data in tabular format (DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>. See AHEA INSTRUCTIONS AND CHECKLIST)

HARDROCK EXPLORATION

RECLAMATION PLAN

(27)

RECLAMATION PLAN

Disturbed Area 5 Acres Or Greater or BLM Notices)

LETTER OF INTENT TO DO RECLAMATION

(Disturbed Area Less Than 5 Acres)

In accordance with Alaska Statute (AS) 27.19, reclamation is required of all mining operations in which ground disturbance occurs (this includes hard rock mineral exploration). Reclamation bonding is required of operations with a disturbed area (all portions of an operation excluding camp and roads on State or private land) of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and "Letter of Intent To Do Reclamation" for operations under 5 acres. **If you do not intend to use the reclamation methods presented below, please provide additional information concerning your plans for reclamation under separate attachments.**

BLM requires that the reclamation plan be consistent with §43 CFR 3809.420, Performance Standards for the Surface Management regulations. Refer to 43 CFR 3809 or the BLM minerals website available at <http://www.blm.gov/ak/st/en/prog/minerals.html> for more information on what is required for a reclamation plan.

Total acreage currently disturbed: _____ acres. This should match: "Total Unreclaimed Acres" on your 2012 Annual Reclamation Statement for Small Mines, or line #7 on your 2013 Bond Pool Renewal Form. (Disturbed ground includes drill sites, sump pits and trenches, bulk sample sites and any other exploration-related areas disturbed since October 1991 (State mining claims or Private lands) or 1981 (Federal mining claims); and are currently unreclaimed. Federal operators include area of camp and roads.

New acres to be disturbed in 2013 _____ acres. Total acreage (currently disturbed plus new acres): _____ acres.

Acreage disturbed by land status: _____ State (general) _____ State (Mental Health) _____ Private _____ Federal

Total acreage to be reclaimed in 2013: _____ acres; and:

Reclamation conducted concurrently with the exploration. Reclamation will be conducted at the end of the exploration season

Total volume of material to be disturbed in 2013: _____ cubic yard. (Including strippings and overburden to be removed. (1 acre of disturbance is equal to 4,840 square yards).

The following reclamation measures shall be used. (These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given as to why these measures are not necessary at your site.)

- Topsoil, vegetation, and overburden muck, not promptly redistributed to an area being reclaimed, will be individually separated and stockpiled for future use. This material will be protected from erosion and from contamination by acidic or toxic materials and will not be buried by tailings.
- The area reclaimed will be reshaped to blend with the surrounding area using tailings, strippings, and overburden and be stabilized.
- Stockpiled topsoil, overburden muck, will be spread over the contoured exploration sites to promote natural plant growth such that the area can reasonably be expected to revegetate within five years. Stockpiled vegetation will be spread over topsoils.
- Exploration trenches will be backfilled. Brush piles, stumps, topsoil, and other organics will be spread on the backfilled surface to inhibit erosion and promote natural revegetation. Exploration trenches shall be flagged and signs posted to notify the public of the existence of the open trenches. All exploration trenches shall be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the DMLW.
- Shallow auger holes (limited to depth of overburden) shall be backfilled with drill cuttings or other locally available material in such a manner that closes the hole to minimize the risk to humans, livestock and wildlife.
- All drill hole casings shall be removed or cut off at, or below, ground level. All drill holes shall be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry shall be placed immediately above the static water level in the drill hole. Complete filling of the drill holes, from bottom to top, with bentonite holeplug or equivalent slurry is also permitted and is considered to be the preferred method of hole closure during which they are drilled, unless otherwise specifically approved by the DMLW.
- If artesian conditions are encountered, the operator shall contact the DMLW (Brent Martellaro at 907 451-2788) or the DEC (Tim Pilon at 907 451-2136) for hole plugging requirements.
- All buildings and structures constructed, used or improved, on State land, will be removed, dismantled, or otherwise properly disposed of at the completion of exploration. The campsite will be cleaned up and left free of debris. In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to the current operation without preauthorization from SHPO (Contact Mark Rollins of SHPO at (907) 269-8722 or mark.rollins@alaska.gov).

IMPORTANT: 1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your operation. Reclamation measures must comply with AS 27.19.

2. Federal land managers may require reclamation measures different to those identified above.

BONDING: In accordance with AS 27.19, bonding is required for all exploration operations having a disturbed area of greater than five acres on State Land. This area must be bonded for \$750.00 per acre, unless the miner can demonstrate that a third party contractor can do the required reclamation for less than that amount. A Statewide bonding pool has been established and may be joined by completing the bond pool application form. Federal land managers may have additional bonding requirements. Use bond form to calculate area of disturbance for bonding.

<p>_____</p> <p>Printed name (Applicant)</p> <p>_____</p> <p>Signature (Applicant)</p>	<p>Relationship to Claim(s)</p> <p><input type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator</p> <p><input type="checkbox"/> Agent</p>	<p>Date:</p>
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PLAN OF OPERATIONS NARRATIVE CHECKLIST

EXPLORATION PLAN

Describe the following:

- Access to drill and / or trench sites, including type and length of access routes. Include a reference to the map showing existing and new roads, trails, airstrips, river routes and landings.
- Exploration activities including type(s) of equipment to be used, when and where activities will occur.
- Measures taken to prepare for reclamation upon completion of exploration activities, such as stockpiling organic materials.
- Drill sites. Include pad construction methods. Include a reference to the map showing drill site locations.
- Drill fluid disposal. Include MSDS sheets.
- Trench excavation methods and location. Include a reference to the map showing trench locations.
- Fuel handling at exploration sites (drill pads and trenches) and off site (camp or base of operations).
- Indicate if there is a spill prevention and response plan in place.
- Water use. Reference the map showing water withdrawal locations. State estimated daily water use and measures planned to prevent fish entrapment.
- Cultural resource clearing. If needed, indicate measures take to avoid disturbance archaeological sites. Contact Mark Rollins at the State Historic Preservation Office if you need assistance determining whether or not you need to address cultural resource clearing. (907) 269-8722 or mark.rollins@alaska.gov

RECLAMATION PLAN

Describe the following:

- Plan for reclamation of disturbed areas in wetlands and uplands.
- Drill hole plugging methods and materials.
- Trench reclamation.
- Trash disposal.
- Methods proposed to promote the establishment of vegetation (measures can include promotion of natural growth by stockpiling & redistribution of organic material).
- Disturbance calculations. Describe how acres of disturbance are calculated for drill pads, trenches, roads, trails and camps).
 - For bonding purposes, please indicate the amount of existing and proposed disturbance by land ownership.

ANNUAL RECLAMATION REPORT FOR HARDROCK EXPLORATION REQUIREMENTS

The Alaska Reclamation Act AS 27.19 requires operations that disturb less than five acres to file an Annual Reclamation Statement. DNR- Mining requests that you do so by December 31st of each year that the permit is in effect. Operations that will disturb more than five acres are required to have a Reclamation Plan Approval and to submit an Annual Exploration Report detailing the exploration and reclamation actions taken during the year **by December 31st of each year that the plan approval is in effect**. Please ensure that your Annual Hardrock Exploration Report contains the following information:

- A written narrative describing your activities and the reclamation measures taken at all disturbances.
- A topographic map showing the portion of the claim block where surface disturbing exploration activities have occurred. The plan map should be at a scale of 1"=1/2 mile, or other appropriate scale sufficient to illustrate: existing trails and roads; new trails and roads; drill hole locations (other than shallow auger holes); trench locations; the camp location; and, any other surface disturbances (please distinguish between reclaimed and unreclaimed features).
- A photo of representative sections of any new road or trail construction.
- A detailed description of the methods used to plug the drill holes.

DEPENDING ON YOUR LEVEL OF ACTIVITY, THE FOLLOWING REPORTING REQUIREMENTS INCLUDE A REQUEST FOR DATA IN TABULAR FORMAT

For reclamation reporting we require that operators submit requested reclamation information in tabular format. **Please use the MS Excel Workbook provided by DNR-Mining.** The table is available for download at <http://dnr.alaska.gov/mlw/forms/> (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet). Contact DNR-Mining if you have questions or need assistance.

- A table of drill sites with Latitude & Longitudes in NAD 83. Included with the sites list if fuel storage is on site, if a tundra mat is present, where trash and sanitary facilities are located, if drill additives are in use, if artesian zones are encountered and if water is discharged from the drill site. Also list whether the drill site has been reclaimed. If a drill site has been reclaimed, please include how the hole has been plugged and cemented (may reference description for more detail), if there is a standing pipe, if the site has been revegetated and the date that the reclamation occurred.
- A table of sump pit sites with Latitude & Longitudes in NAD 83. Included with the sites list if there is a discharge trench and the dimensions of the pit. Also list whether the sump pit has been reclaimed.
- A table of drill water supply sites with Latitude & Longitudes in NAD 83. Included with the sites list what kind of site it is (lake, pond, stream, etc.), intake size, mesh size on intake, if the intake is completely submerged, hose color, average gallons per minute consumed and start up and stop dates.
- A photo, with appropriate caption including reference to drill site table location, of each reclaimed drill site and exploration trench.
- A list of Mining Claims by ADL# or BLM # that contain unreclaimed disturbance at the end of the year and a total acreage that remains unreclaimed.

INSTRUCTIONS FOR COMPLETING EXPLORATION PLAN OF OPERATIONS MAP(S)

SUBMIT ONLY SCALE DRAWINGS.

This checklist is provided to assist you in the completion of your plan map. Sketch your complete exploration and reclamation plans in detail; and include written descriptions of your planned operation, as necessary, including reclamation plans, to provide reviewing agencies an understanding of your proposed sequence of exploration activities for the exploration season.

For operators on BLM-managed land, read the BLM Instructional Supplement to determine whether or not there is additional information required at <http://www.blm.gov/ak/st/en/prog/minerals.html>

MAP CHECKLIST

INCLUDE EACH OF THE FOLLOWING ITEMS IN YOUR MAP(S), - IF AN ITEM DOES NOT APPLY, INDICATE BY "N/A". If necessary, please submit multiple sheets.

-] **TOPOGRAPHY** -- USGS quadrangle designation, legal description (Township, Range & Section).
-] **NORTH ARROW** -- indicate the direction of north with respect to your operation.
-] **SCALE BAR** -- include a scale bar on the drawing.
-] **CLAIM LOCATIONS** -- indicate claim name, ADL/BLM number, boundary lines and corner posts.
-] **AREAS TO BE RECLAIMED** -- indicate location and dimensions (lengths and widths).
-] **PREVIOUSLY RECLAIMED AREAS** -- indicate locations and date of completed reclamation.
-] **FUEL STORAGE AREA** -- indicate location with respect to stream and active exploration area -- include distance from flowing waters.
-] **CAMP FACILITIES or STRUCTURES** -- indicate location and describe size, type, and purpose of each structure and indicate the approximate length and width of the camp area.
-] **SANITARY AND SOLID WASTE** -- indicate location and method of disposal (i.e., outhouse; trash collection; etc.).
-] **EXISTING ROADS AND TRAILS.**
-] **ROADS AND TRAILS TO BE CONSTRUCTED.**
-] **EXISTING EXPLORATION TRENCHES.**
-] **EXISTING DRILL PADS.**

THE FOLLOWING ITEMS ARE REQUIRED IN DIGITAL FORMAT IN ADDITION TO MAP(S)

SEE INSTRUCTIONS BELOW

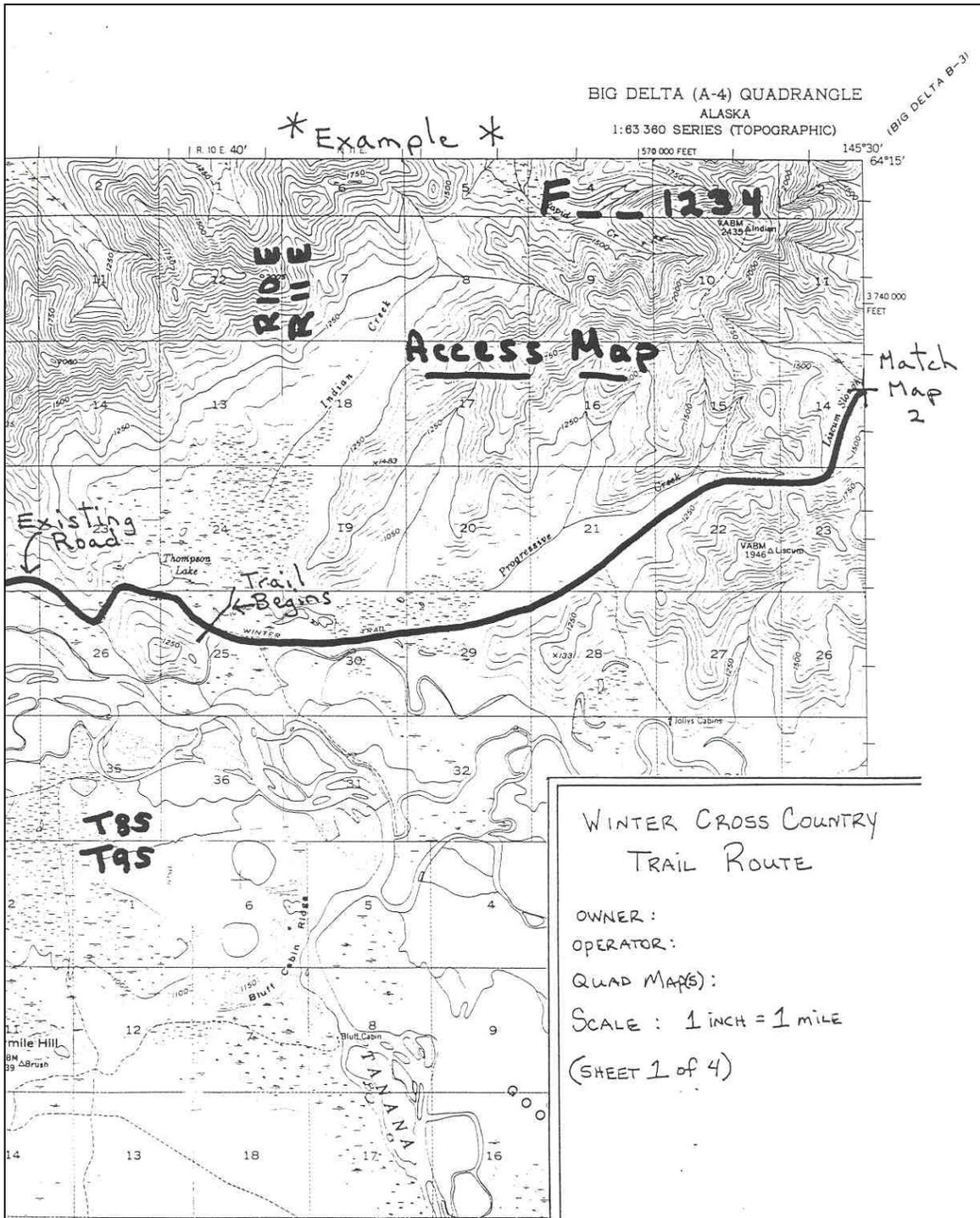
If you are planning to drill more than 5 holes, excavate more than 5 trenches, use more than 5 water take points or require more than 5 stream crossings on your proposed access route, then tabular geographic information will be required in electronic MSEXcel format.

Please use the MS Excel Workbook provided by DNR-Mining. The table is available for download at <http://dnr.alaska.gov/mlw/forms/?tab=mining>. Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet.

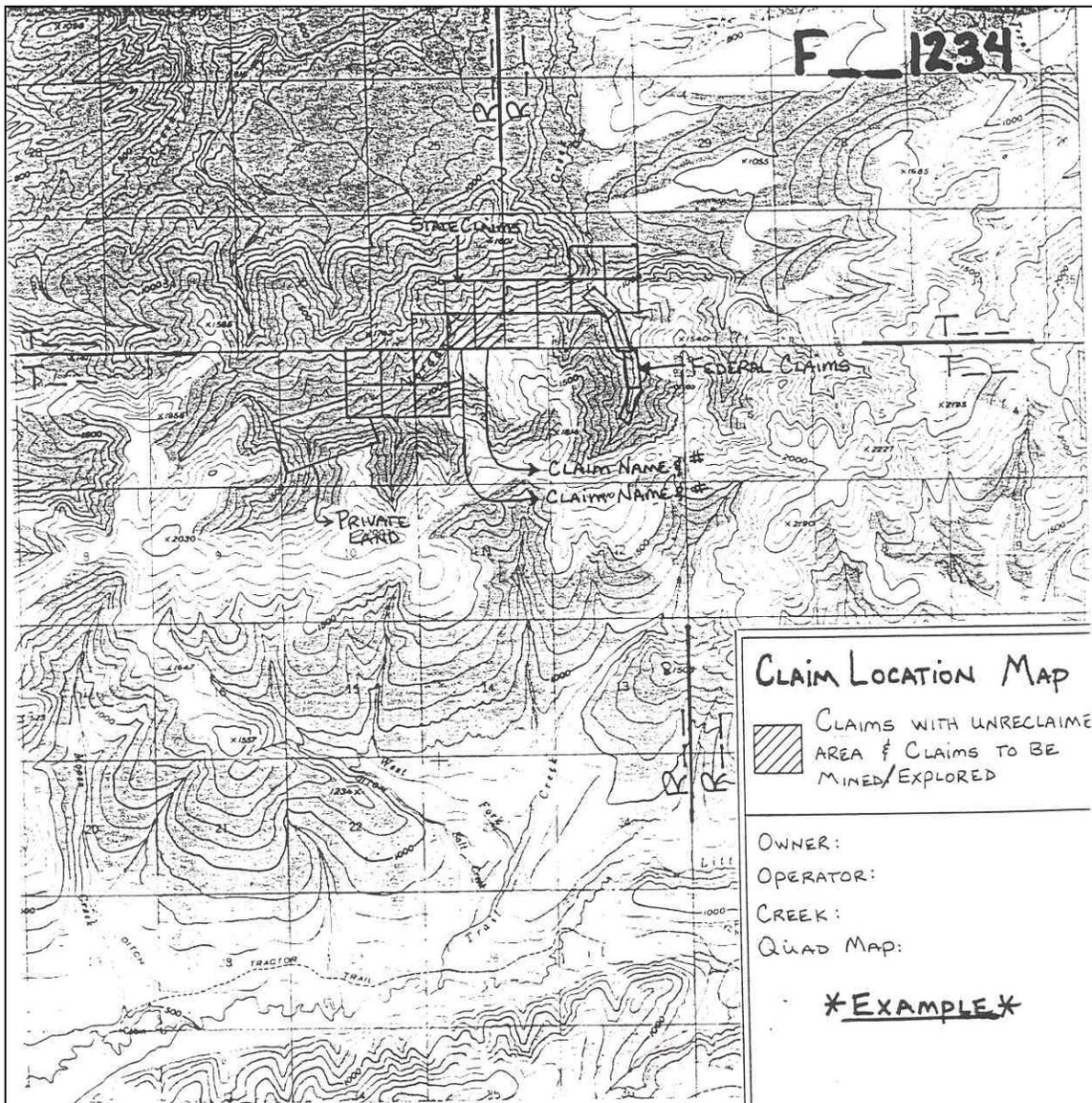
-] **EXPLORATION TRENCHES TO BE CONSTRUCTED**
-] **DRILL HOLES TO BE DRILLED**
-] **POINT OF TAKE FOR WATER** -- show water withdrawal locations on map(s). Include camp water and drill water withdrawal locations. Indicate size of pump, hose length, hose position.
-] **ACCESS** -- indicate type and location of existing access to the claims and specifically to the exploration area. Include length and width of access to be constructed; indicate type and location of proposed construction of new access including length, width and distribution of fill if fill would be placed in wetlands, ponds, streams, or other waters of the U.S. List all named and unnamed streams crossed during cross country travel.

Please make one final review of the plan map checklist to make certain that you included everything.

INCOMPLETE PLAN MAPS WILL CAUSE THE ENTIRE AREA TO BE RETURNED



Example of Access Map



Example of Claim Location Map