APPLICATION FOR APPROVAL TO CONSTRUCT A GEOTHERMAL HEATING/COOLING EXCHANGE WELL

Mail form and payment to:

Office of the Engineer
PO Box 37
Ronan, MT 59864
For questions contact: contact@frwmb.org or (406) 201-2532

Approval from the Office of the Engineer must be received before drilling the well(s) or developing any spring(s).

REQUIRMENTS FOR GEOTHERMAL HEATING OR COOLING WELLS:

Maximum Appropriation: 350 gallons per minute – non-consumptive use

Source: Groundwater, meaning any water located beneath the surface of the earth.

All water extracted must be injected into the same source aquifer, and at similar depth intervals to the extraction well, without delay such that water withdraw and discharge are equivalent after coming into balance

The nearest existing well and any hydraulically connected surface waters must be more than twice the distance away from the extraction well as the distance between the extraction and injection wells.

Upon completion of the well or developed spring, an appropriator must submit form 646F-Part B within 120 days of putting the water to use.

FILING FEE: $250.00 ***Make checks payable to FRWMB***

OFFICE of the ENGINEER USE ONLY

Water Right #_____Basin _____
Date Rec'd _____
Time_____ AM / PM
Rec'd By _____
Payor _____
Amount Rec'd_____ Check # _____
Receipt # _____
Refund $_____Date _____
Deficiency Letter Sent _____

1. ELIGIBILITY VERIFICATION

a. Is the proposed appropriation located outside the boundaries of a controlled groundwater area? ☐ Yes ☐ No

b. Is the proposed appropriation located outside the boundaries of a controlled groundwater area? ☐ Yes ☐ No

c. Is the proposed appropriation located outside the boundaries of a controlled groundwater area? ☐ Yes ☐ No

d. Is the distance between the proposed extraction well and both the nearest existing well and any hydraulically connected surface water source more than twice the distance between the proposed extraction and proposed injection well? ☐ Yes ☐ No

The answer to all questions must be "yes" to be eligible to file this form.
If any answer above is no, contact the Office of the Engineer.

2. WATER RIGHT OWNER INFORMATION

Name(s)_____

Mailing Address _____

City _____ State _____ Zip_____

Cell/Home Phone _____ Email Address _____

3. WATER SUPPLY DESCRIPTION

Please describe your proposed appropriation works (including anticipated Well Shaft Casing Description).

_____

_____

_____

_____

4. PERIOD OF USE

Year-round use? Yes ☐ No ☐ If no, from _____ to _____, inclusive each year

5. EXTRACTION WELL LOCATION **leave fields blank if not applicable*

___ ¼ ___ ¼ ___¼ Section_____ Township_____☐ N ☐ S Range_____☐ E ☐ W

County _____ Lot* _____ Block*_____ Subdivision Name* _____

Tract No.*_____ COS/TSR No.*_____ Government Lot* _____

Street Address, including City/State/Zip Code _____

6. INJECTION WELL LOCATION

___ ¼ ___ ¼ ___¼ Section_____ Township_____☐ N ☐ S Range_____☐ E ☐ W

County _____ Lot* _____ Block*_____ Subdivision Name* _____

Tract No.*_____ COS/TSR No.*_____ Government Lot* _____

Street Address, including City/State/Zip Code _____

7. DISTANCE FROM EXTRACTION WELL HEAD TO INJECTION WELL HEAD _____ feet

8. DISTANCE FROM EXTRACTION WELL HEAD TO BOTH NEAREST EXISTING WELL AND HYDRAULICALLY CONNECTED SURFACE WATER

Distance to nearest well _____ feet

Distance to hydraulically connected surface water source _____ feet

9. PLACE OF USE

Geocode of the place of use (17 digits) _____

Geocodes can be found in county records, tax statements, or at http://svc.mt.gov/msl/mtcadastral/.
If there are multiple places of use, list the geocode for each parcel on an attached sheet.

Is the place the water is used the same as the point of diversion? Yes ☐ No ☐

***If you answered yes, leave this field blank and skip to #10**

___ ¼ ___ ¼ ___¼ Section_____ Township_____☐ N ☐ S Range_____☐ E ☐ W

County _____ Lot* _____ Block*_____ Subdivision Name* _____

Tract No.*_____ COS/TSR No.*_____ Government Lot* _____

Street Address, including City/State/Zip Code _____

10. MAP

Please include the following items:

- Property Boundaries with ownership information
- Township, Range, and Section
- All wells within a 500-foot radius of the proposed well(s) or spring(s)
- Sewage facilities including septic tanks and drain fields
- Buildings on the site
- Well connections including conveyance, water right points of diversions, and identify surface water features that are hydrologically connected to the groundwater source

11. ATTACH GEOTHERMAL PUMPING DESIGN SCHEMATIC THAT CLEARLY IDENTIFIES ISOLATION OF THE SYSTEM

12. DECLARATION OF OWNERSHIP

I declare under penalty and perjury that the statements appearing here are, to the best of my knowledge, true and correct and affirm that I have possessory interest, or the written consent of the person with the possessory interest, in the point of diversion, place of use, and conveyance.

Applicant 1 Printed Name_____

Authorized Signature_____ **Date** _____

Applicant 2 Printed Name_____

Authorized Signature_____ **Date** _____

Applicant 3 Printed Name_____

Authorized Signature_____ **Date** _____

*****Please note, you must submit ORIGINAL owner signatures, copies will not be accepted.**

INSTRUCTIONS
GEOTHERMAL HEATING / COOLING
APPLICATION FOR AUTHORIZATION

There are special federal requirements regarding injection wells and water quality. Filing requirements may apply to your development. Please visit http://water.epa.gov/type/groundwater/uic/class5/ for more information regarding the Class V well inventory process.

To use this form, the following must apply to your proposed water use.

- The source is groundwater, meaning any water located beneath the surface of the earth.
- The water is diverted from the ground via a well or developed spring.
- The flow rate used is 350 gallons per minute or less. This is the rate you are taking water from the source. If the water use exceeds that amount, you cannot file for this proposed use using this form.

Complete this form ONLY if you have determined this is the correct form to file.

1. **Eligibility Verification**
   If you answer no to any of the questions you cannot file this form.
2. **Water Right Owner Information**
   Enter the complete name of the person(s) to be listed as the water right owner(s), their mailing address, and a phone and email address. Applicants should match the title on the property.
3. **Proposed Source of Water Supply**
   Provide a description of proposed developments including the proposed casing details.
4. **Period of Use**
   Enter the proposed period of use.
5. **Extraction Well Location**
   Latitude and Longitude must be entered. Enter the land description for the location of extraction. Describe the location to the nearest 10 acres if possible.
   Legal land descriptions, subdivisions, geocodes, and certificate of survey information may be obtained from the county records, tax statements, or from the Montana Cadastral system at: http://svc.mt.gov/msl/mtcadastral/
   Certificate of Survey - In addition to the land description, enter the survey number.
   Subdivisions – In addition to the above description, if applicable, enter the lot and block or tract number, subdivision name.
   Government Lots – In addition to the land description, if applicable, enter the government lot number.
   Street or Road Address – Enter the physical address of the development including city, state, and zip code.
6. **Injection Well Location**
   Follow the same instructions above (Extraction Well Location) for the location of the Injection well
7. **Distance from extraction well head to Injection well head**
   Enter distance (in feet) between point of extraction and point of injection.
8. **Distance from Extraction well head to both Nearest Existing Well and Hydraulically Connected Surface Water**
   Enter distance (in feet) from the extraction well to both the nearest existing well and nearest hydraulically connected surface water source.
9. **Place of Use**

The geocode of the place of use must be provided.
If the point of diversion (extraction well location) differs from the place of use, check the 'No' box and fill out the land description for the place of use following the instructions listed above in #5 (extraction well location).

10. Map

A map is required. Include all information required on the form. A good option for producing a map is to print out an image of your parcel from the Montana Cadastral (http://svc.mt.gov/msl/mtcadastral/) and draw features directly on the printed map that includes your property boundaries.

11. Pumping Design Schematic

A design schematic is required to show that the system is entirely isolated.

12. Declaration of ownership

All owners of record at the place of use, point of diversion, and conveyance must sign the application and attest that the statements on the form are true and correct.