January 12, 2023

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 que	stions contact: contact: contact@frwmb.org or (contact@frwmb.org or (<a href="</th"><th>406) 201-2532</th>	406) 201-2532	
Approval from the Office of the Engineer must be received before drilling the well(s) or developing any spring(s). REQUIREMENTS FOR GEOTHERMAL HEATING OR COOLING WELLS:		OFFICE of the ENGINEER USE ONLY	
Maximum Appropriation: 350 gallo	ons per minute – non-consumptive use		
Source: Groundwater, meaning any earth.	water located beneath the surface of the		
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.		Water Right #Basin Date Rec'd	
The nearest existing well and any hy be more than twice the distance awa between the extraction and injection	rdraulically connected surface waters must by from the extraction well as the distance 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.		Amount Rec'd Check #	
FILING FEE: \$250.00 **Make ched	cks payable to FRWMB**	Refund \$Date Deficiency Letter Sent	
 groundwater area? b. Is the proposed maximum at a same source aquifer? d. Is the distance between the well and any hydraulically a distance between the proposed. The answer is a same and any same answer in the proposed.	on located outside the boundaries of a cappropriation 350 gallons per minute (Glabe extracted going to be returned without proposed extraction well and both the ronnected surface water source more the sed extraction and proposed injection water all questions must be "yes" to be canswer above is no, contact the Office	PM) or less? out delay into the nearest existing an twice the vell? eligible to file this form.	
2. WATER RIGHT OWNER INFORMAT Name(s)	TION		
•	State	Zip	
Cell/Home Phone	Email Address		

Part A – Application to co	onstruct a geotnerma	il heating/cooling	exchange we	ell J	anuary 12, 2023
WATER SUPPLY DESCRIP	TION				
Please describe your pr	roposed appropriatio	n works (includir	g anticipated \	Well Shaft Casin	g Description).
PERIOD OF USE					
	Yes No No	If no, from	to	, inclusive eac	h year
EXTRACTION WELL LOCA	TION *leave fields b	lank if not appl	icable		
				Range	
County	Lot* Block	*	Subdivision Na	ame*	_
Tract No.*	COS/TSR No.*		Govern	ment Lot*	
Street Address, including	g City/State/Zip Code				
INJECTION WELL LOCATION	ON				
	~	Township	DN Ds	Range	□E □W
Tract No.*	COS/TSR No.*		Govern	ment Lot*	
Street Address, including	g City/State/Zip Code				
DISTANCE FROM EXTRA	CTION WELL HEAD T	O INJECTION WI	ELL HEAD _	feet	
DEPTH OF EXTRACTION WELL HEAD DEPTH OF INJECTION WELL HEAD					
8. DISTANCE FROM EXTRACTION WELL HEAD TO BOTH <u>NEAREST</u> EXISTING WELL AND HYDRAULICALLY					
	PERIOD OF USE Year-round use? EXTRACTION WELL LOCA	WATER SUPPLY DESCRIPTION Please describe your proposed appropriation PERIOD OF USE Year-round use? Yes No EXTRACTION WELL LOCATION *leave fields by Lot* Block Tract No.* COS/TSR No.* Block INJECTION WELL LOCATION OCUMBER OF STRACTION WELL HEAD TO DEPTH OF EXTRACTION WELL HEAD DEPTH OF EXTRACTION WELL HEAD	WATER SUPPLY DESCRIPTION Please describe your proposed appropriation works (including place of the policy of the	WATER SUPPLY DESCRIPTION Please describe your proposed appropriation works (including anticipated No leave fields blank if not applicable leave leave leave fields blank if not applicable leave leave leave leave fields blank if not applicable leave leav	PERIOD OF USE Year-round use? Yes No If no, from to inclusive each straction well blank if not applicable Note in Not

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 Range_____DE DW

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
Applicant 4 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 well casing, well screen, perforations, well depths, and any other pertinent 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 2.5 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 certificate of 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. Enter the depth of both the extraction well head and the injection well head in feet.

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.

Montana Groundwater Diversion Standards adopted in the Unitary Administration and Management Ordinance (MCA 85-20-1902)

1. Wells:

- a. Persons that drill, make, or construct wells, including monitoring wells, on the Reservation shall comply with Title 37 Chapter 43, MCA, and ARM 36 Chapter 21 licensing, conduct, and regulatory requirements, or any successor provisions promulgated in State law.
- b. all well construction on the Flathead Reservation shall meet the standards set forth in ARM 36 Chapter 21, or any successor provisions promulgated in State law.
- c. construction and operations of all wells must comply with all applicable federal, State, Tribal, and local environmental regulations.

2. Developed Springs:

- a. all Developed Spring collection components, including but not limited to infiltration galleries, infiltration basins, and French drains, shall be installed and buried under the surface of the ground.
- b. all means of storage and conveyance, including but not limited to supply pipes, cisterns, and pump housings, shall be sealed and made impervious to water and designed in a manner that protects the source from backflow and surface contamination.
- c. open pits, ponds, or excavations shall not be used as a means of diversion for Developed Springs.
- d. construction and operation of all Developed Springs must comply with all applicable federal, State, Tribal, and local environmental regulations.
- 3. Aquifer injection is not allowed except when used exclusively for Heating/Cooling Exchange Wells.