| GEOTHERMAL HEATING/COOLING EXCHANGE WELL NOTICE OF COMPLETION | | | | | |
|--|--|--|--|--|--|
| Mail form and payment to: | | | | | |
| Office of the Engineer | | | | | |
| PO Box 37 | | | | | |
| 112 | conan, MT 59864 | | | | |
| | <u>contact@frwmb.gov</u> or (406) 201-2532 | | | | |
| Use this form after the Office of the Engine Authorization to Construct a Geothermal H Well (Form 646F-Part A) and well has bee | leating/Cooling | | | | |
| You must file this form within 120 day water to use in order to receive you | | | | | |
| Maximum Appropriation: 350 gallons per consumptive use | r minute – non- | | | | |
| Source: Groundwater, meaning any water the surface of the earth. | r located beneath | | | | |
| All water extracted must be injected into th aquifer, and at similar depth intervals to the without delay, such that, water withdraw ar equivalent after coming into balance. | e extraction well, | | | | |
| The nearest existing well and any hydrauli surface waters must be more than twice th from the extraction well as the distance be extraction and injection wells. | ne distance away Water Right #Basin | | | | |
| FILING FEE: \$0.00 | Rec'd By | | | | |
| 1. WATER RIGHT NUMBER | | | | | |
| 2. WATER RIGHT OWNER INFORMATION | | | | | |
| Name(s) | | | | | |
| Mailing Address | | | | | |
| City | StateZip | | | | |
| Cell/Home Phone | | | | | |
| 3. PROJECT CONSTRUCTION | | | | | |
| Date wells were constructed: | | | | | |
| Extraction Well: Injection Well: | | | | | |
| Date water was first put to use: | | | | | |
| Include your Well Log which can be found online: <u>https://mbmggwic.mtech.edu/</u> | | | | | |
| 4. PERIOD OF USE | | | | | |
| Year-round use? Yes No If n | no, from to, inclusive of each year. | | | | |

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

| | Latitude Longitude | | | | |
|-----|---|--|-----------------------------|----------|--|
| | 1⁄41⁄41⁄4 Sec | tionTownship | 🗖 N 🗖 S Range | 🗆 e 🗖 W | |
| | County Lot* | | | | |
| | Tract No.* | | | | |
| | Street Address, including Ci | ity/State/Zip Code | = 51 | | |
| 6. | INJECTION WELL LOCATIO | ON *leave fields blank if r | ot applicable | | |
| | Latitude Longitude | | | | |
| | 1/41/41/4 Sec | | | | |
| | County Lot* | Block* | _ Subdivision Name* | | |
| | Tract No.* | COS/TSR No.* | Government Lot* | | |
| | Street Address, including Ci | ity/State/Zip Code | | | |
| 7. | FLOW RATE AND PUMP IN | FORMATION | | | |
| | Flow Rate | GPM | Pump Size | HP | |
| | Flow Rate Pump Make/Model | | Depth of Pump Intake | FT | |
| 8. | DISTANCE FROM EXTRAC EACH WELL | | | | |
| | Distance from extraction well | Il head to injection well he | ead: feet. | | |
| 9. | DISTANCE FROM EXTRACTION WELL HEAD TO BOTH <u>NEAREST</u> EXISTING WELL AND HYDRAULICALLY CONNECTED SURFACE WATER | | | | |
| | Distance to nearest well: | feet | | <i>\</i> | |
| | Distance to hydraulically cor | nnected surface water so | urce: feet | 2 | |
| 10. | PLACE OF USE | | | | |
| | a. Geocode of the place of | use (17 digits) | 2 | | |
| | If there are multiple places of use, list the geocode for <u>each parcel</u> on an attached sheet. Geocodes can be found in county records, tax statements, or on Montana Cadastral at | | | | |
| | http://svc.mt.gov/msl/mt | - | atements, or on montana c | | |
| | b. Is the place where wate | and the second sec | s the point of diversion? | | |
| | <u>IF NO</u> , enter the place o | f use land description be | ow. If there is more than o | | |
| | | parate sheet with addition | al land descriptions. | | |
| | * Leave field blank if not | | | | |
| | $1/_{4}$ $1/_{4}$ $1/_{4}$ Sect | | | | |
| | County Lot* | | | | |
| | Tract No.* | | | | |
| | Street Address, including Cit | y/State/Zip Code: | | | |

11. MAP

Montana Cadastral aerial images can be used to help generate a map. (<u>http://svc.mt.gov/msl/mtcadastral/</u>)

A marked and labeled map must be submitted with the application and include the following:

- Property boundaries and ownership information;
- Township, Range, and Section of the point of diversion and place of use;
- All buildings on the property;
- Sewage facilities including septic tanks and drain fields within the property boundaries;
- All wells within a 500-foot radius of the proposed well or spring; and
- Other well connections including conveyance, points of diversions, and surface water features

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

Attached geothermal pumping design schematic? Yes No

13. DECLARATION OF OWNERSHIP

| I declare under penalty of 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: | 11 |
|--|----------|
| Authorized Signature: Thead Reservation | Date: |
| Applicant 2 Printed Name: | |
| Authorized Signature: | Date: |
| Applicant 3 Printed Name: | |
| Authorized Signature: | Date: |
| ***Please note, you must submit ORIGINAL owner sid | natures. |

Copies will not be accepted.***

INSTRUCTIONS FOR GEOTHERMAL HEATING/COOLIING NOTICE OF COMPLETION

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

1. 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.

2. Project Construction Attach the well log to your application and Provide the construction date and completion date. Well logs can be found at <u>https://mbmggwic.mtech.edu/</u>

3. Period of Use

Enter the period of use.

4. 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. Water Management Board

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.
- 5. Injection Well Location

Follow the same instructions above (Extraction Well Location) for the location of the Injection well.

6. Flow Rate and Pump Information

Enter the flow rate used, the depth of the pump intake, and the make/model of the pump used for your geothermal heating/cooling 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 #4 (extraction

well location).

10. Map

A finalized 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 (<u>http://svc.mt.gov/msl/mtcadastral/</u>) 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.

Flathead Reservation

Water Management Board

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.

ATTENTION

This application does not exclude you from other permitting requirements such as <u>but not limited</u> to:

- CSKT Aquatic Lands Conservation Ordinance (ALCO)
- Section 404 of the Clean Water Act (CWA)
- Section 401 of the CWA
- MT DEQ Subdivision of Platting Act