



APPLICATION FOR BENEFICIAL WATER USE PERMIT SOUTH PINE CONTROLLED GROUNDWATER AREA ADDENDUM

Section 85-2-311(1), MCA, provides the Department shall approve a water use permit for an appropriation of water if the applicant proves by a preponderance of evidence the criteria listed below are met. It is the applicant's responsibility to provide credible, relevant and factual information upon which the Department may rely to support the issuance of a provisional permit.

AFTER THE WELL IS DRILLED, COMPLETE THIS FORM AND SUBMIT A COPY OF THE WELL LOG.

Attach additional sheets if necessary.

1. What substantial, credible information or data do you have to prove there is water physically available at the proposed point of diversion in the amount you seek to appropriate?

- The well was tested for _____ hour(s) at _____ gpm.
- We intend to use _____ gpm. _____ gpm would produce _____ acre-feet (AF) per year.
- We request to use _____ AF per year.

2. What substantial, credible information or data do you have to prove water is legally available during the period and in the amount you requested?

- I have reviewed the DNRC water right listing of wells within a 1/2 mile radius of my well.
 - The total volume used within this radius is _____ AF per year.

3. Provide a comparison of the physical availability and existing legal demands by subtracting the total volume used within the 1/2 mile radius from the aquifer flux of 27.5 AF*. _____

4. What substantial, credible information do you have to prove the proposed use of water will not adversely affect a prior appropriator using an existing water right, certificate, permit, or a state water reservation? How do you plan to regulate your use during times of shortage and control your diversion to ensure prior appropriators will be satisfied?

5. Describe the proposed means of diversion, constructions and operation of the diversion works you intend to use and provide substantial, credible information to prove the means of diversion, construction and operation are adequate.

- The well was drilled on _____ by _____ (a licensed well driller). The well has a _____ diameter casing to a depth of _____ feet and is grouted with bentonite. A _____ horsepower pump is installed and the static water level is _____ feet.

6. Provide substantial, credible information and data to prove the proposed use is a beneficial use of water and the flow rate and volume requested in reasonable for the proposed use.

- The water will be used for _____.
- The requested flow rate is _____. This amount is requested because _____.
- The requested volume is _____.

Volume was calculated based on the DNRC standards, as shown by the calculations below:

- Domestic: number of homes supplied _____ x 1 AF/year = _____ AF/yr
- Lawn & Garden: total size of lawn & garden _____ acres x 2.5 AF/yr = _____ AF/yr
- Irrigation: Type of Crop _____ Climatic Area _____
_____ Acres Irrigated x _____ AF/acre** = _____ AF/yr
- Stock: the number of animal units _____ x 0.017 = _____ AF/yr.

Printed Name _____

Applicant Signature _____

Date: _____

Printed Name _____

Applicant Signature _____

Date: _____

*This figure is only valid for proposed uses that are less than 35 GPM up to 10 AF/yr from the Fox Hills – lower Hell Creek Aquifer.

- Aquifer flux = transmissivity x hydraulic gradient x width of zone of influence
- Transmissivity = 178 ft²/day (1,330 gallons per day per foot)
- Hydraulic gradient = 0.0035
- Width = 5,280 feet

** Use the table found in ARM 36.12.115(e) to determine the AF/acre based on your climatic area.**