

**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 ½ 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 ½ 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.

\_\_\_\_\_  
Applicant's 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 ft<sup>2</sup>/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.