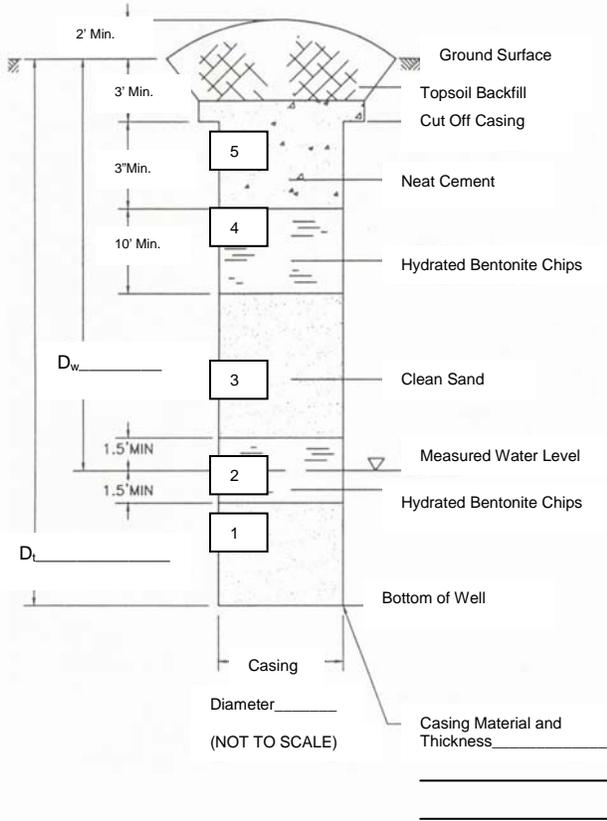


## WELL DECOMMISSIONING WORKSHEET

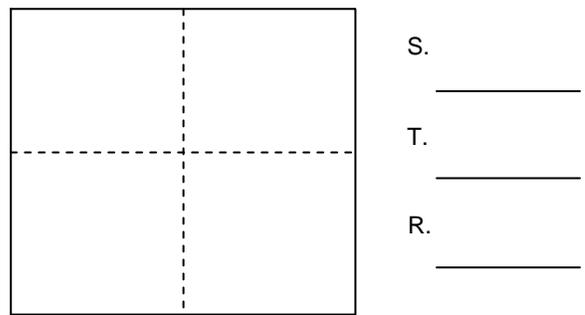
### Large Diameter Wells, Casing Diameter Greater Than 10", Sand Fill



**NOTES:**

1. The well shall be cleared of all foreign material, including pumping equipment and any debris. The well shall be flushed with clean water or compressed air of sufficient volume and pressure to lift debris from well.
2. The water in the well shall be brought to a 100-ppm chlorine concentration before sealing. Use 1 gallon of 5% bleach per 500 gallons of water.
3. Sealing material shall be high-grade, commercial bentonite chips or pellets. They shall be screened and added slowly, at a rate of three minutes per bag. Above the water table, water shall be added at a rate of four gallons per 50 pound bag. A 50 pound bag of bentonite makes 0.7 cubic feet.
4. If previously approved by the Montana Board of Water Well Contractors, clean sand fill may be added. The sand shall be placed in layers no thicker than ten feet, and be separated with a one-foot layer of sealing material.
5. When adding clean sand below the water table, the water level in the well shall be allowed to stabilize.
6. The hole shall be sounded a minimum of once for every ten bags of chips installed. Any discrepancies between the measured volume and the calculated volume of fill shall be corrected.
7. The neat cement shall be made by mixing six gallons of water with one 94 pound bag of Type II Portland cement. Up to five percent bentonite, by weight, may be added. A 94 pound bag of cement makes 1.1 cubic feet using 6 gallons of water.
8. Casing shall be cut off three feet below the surface, and the void filled with topsoil. Topsoil shall be mounded above the ground surface. The mound shall be checked periodically for settlement, and backfill added if necessary.

TABLE OF CONTENTS				
Layer # & Material	Units	Est. Amt.	As Built	
Static Water	Gals.			
5% Chlorine Bleach	Gals.			
1 Clean Sand	Yd <sup>3</sup>			
2 Bentonite Chips (50) lbs.	Bags			
Added Water	Gals.			
3 Clean Sand	Yd <sup>3</sup>			
4 Bentonite Chips (50) lbs.	Bags			
Added Water	Gals.			
5 Neat Cement	Ft <sup>3</sup>			
Portland Cement	Bags			
Added Water	Gals.			



**LOCATION MAP**

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Datum \_\_\_\_\_

Date of Decommissioning \_\_\_\_\_

Operator \_\_\_\_\_ Date \_\_\_\_\_

NRCS Representative \_\_\_\_\_ Field Office \_\_\_\_\_ County \_\_\_\_\_