

Well #1

Permit 25-7047, received 3/22/1974 for 500 homes, mentioned that the first 3 wells for Falls Water Co. were equipped with 40 HP, 20 HP, and 7.5 HP pumps. Assuming that these were the original pump sizes, it appears that well #1 was the 20 HP, well #2 was the 40 HP, and well #3 was the 7.5 HP.

Well #3 appears to be the smallest of the three because the 1987 IPUC report lists it at 10 HP. Also, well #3 was deepened in 1997 to accommodate a larger pump, a 30 HP. Scott Bruce, Tony Wise, and Kelly Howell thought that well #3 was originally a 7 to 10 HP.

Well #2 currently has a 40 HP pump in place and there is no record of altering the well for a larger pump, unlike wells #1 and #3. Also Scott Bruce, Tony Wise, and Kelly Howell thought that this well was originally equipped with a 40 HP pump.

By default, that would make well #1 the 20 HP. An August 1976 well log shows that well #1 was deepened, presumably to increase pump size to the current 75 HP.

$$Q = \frac{20 \text{ HP} \times 8.814 \times 0.70}{(2.31 \times 70) + 47} = 0.59 \text{ cfs}$$