5514 County Road J
Woodruff, WI 54568
(715) 555-0137
borgenwell.example

Borgen Well & Pump

Pump Installation Report and Water Test

Customer: Raymond and Margaret Ostrander

Well location: 8815 Skein Lake Road, Minocqua (pump house, 20 feet north of the cabin)

Date of work: July 21, 2020

Reason for the call: No water. The old pump, set in 1994, had failed.

The well

Type	Drilled, 6-inch steel casing
Total depth	96 feet
Water standing at	31 feet below the top of the casing
Well cap	New vermin-proof cap fitted

What we installed

Pump	Submersible, 1/2 horsepower, 10 gallons a minute, 230 volt
Pump set at	82 feet
Drop pipe and wire	82 feet of 1-inch poly pipe; new 12-gauge pump cable
Pressure tank	32 gallons, in the pump house
Pressure switch	On at 40 pounds, off at 60
Tank pre-charge	38 pounds
Electrical	Breaker 14 in the cabin panel, two-pole, 20 amp, marked WELL
Yield after one hour of pumping	9 gallons a minute, water clear

Water test, sample drawn at the kitchen tap after chlorinating and flushing

Test	Result	Limit or usual range
Coliform bacteria	Absent	Absent
E. coli	Absent	Absent

Test	Result	Limit or usual range
Nitrate, as nitrogen	0.8 mg/L	10 mg/L
Arsenic	under 1 µg/L	10 µg/L
Iron	0.4 mg/L	0.3 mg/L (taste and staining only)
Hardness	8 grains per gallon	moderately hard
pH	7.4	6.5 to 8.5

Tested by Three Rivers Water Laboratory, Rhinelander, sample 20-07-3318, reported July 27, 2020. The water is safe to drink. The iron is a little over the level at which it stains fixtures; a filter is optional.

Charges

	Amount
Pump, pipe, cable and fittings	$1,640.00
Pressure tank, switch and gauge	$585.00
Labor, Sunday rate, two men	$780.00
Chlorination and water test	$145.00
Total, paid by check	**$3,150.00**

The pump and tank are warranted for five years, to July 21, 2025. Turn breaker 14 off before the lines are drained in the fall; a pump that runs dry is not covered.