There are 2 basic types of Wells

1. Bored Wells

Bored Wells are generally 24 inches inside diameter, lined with a concrete pipe in three-foot sections, are 25 to 50 feet deep, and contain 4 to 10 feet of water. If you are very conservative with your water usage, this type of well will often suffice for inside water usage.

Water in the ground comes to these wells at a slow rate due to the fact that it must travel sideways through the soil. Bored Wells were the kind of wells that everyone had up until the early 1900's. These were hand-dug wells. The amount of water in these wells tends to vary through out the year due to changes in the water table.

2. Drilled Wells

Today we have equipment capable of drilling through rock to depths of 600 to 700 feet. This is usually an air rotary hammer drill operated by high pressure/high volume air. Drilled wells are usually 350 to 450 feet deep. However, occasionally they are drilled deeper. The depth of the well and the gallons per minute that the well produces both determine the maximum sizing of the pumping equipment. This information is used to determine the cost to the consumer.

PUMPS:

Submersible Pumps
Submersible pumps start at 4-inch diameter pumps, which are generally used in the home consumer market and light irrigation. These units are readily available from one-half horsepower through seven and one-half horsepower, which will give you a range from 5 to 10 gallons per minute - up to 70 to 80 gallons per minute.

The 6-inch and larger pumps are normally used on municipal and industrial sites. They are capable of being constructed to site specific characteristics. In other

words, manufacturers are capable of sending you a unit specifically designed to fit your well's characteristics.

There are basically two manufacturers of submersible pumps that we use. One manufacturer uses stainless steal parts inside their pumps while the other pump manufacturer uses plastic. Each as its benefits:

For example, the stainless steal will last longer in wells that have a sand or grit problem while the plastic parts will handle iron manganese better. For example, the iron manganese will not affect the plastic parts as fast as the stainless parts.

Line Shaft Turbine Pumps
These pumps are primarily used on golf course and farm irrigation sites.

Centrifugal Pumps
These are mainly used to boost pressure in irrigation systems. They are often used on mobile home park sites..

Our company is familiar with all of these types of wells and pumping equipment. For any additional information or to discuss any site-specific situations that you may be encountering, ***please call (770) 692-0202 and ask for Dave.***