

**Clue: *Water flows from me but not all the time.  
Pump my handle for the water to climb.***



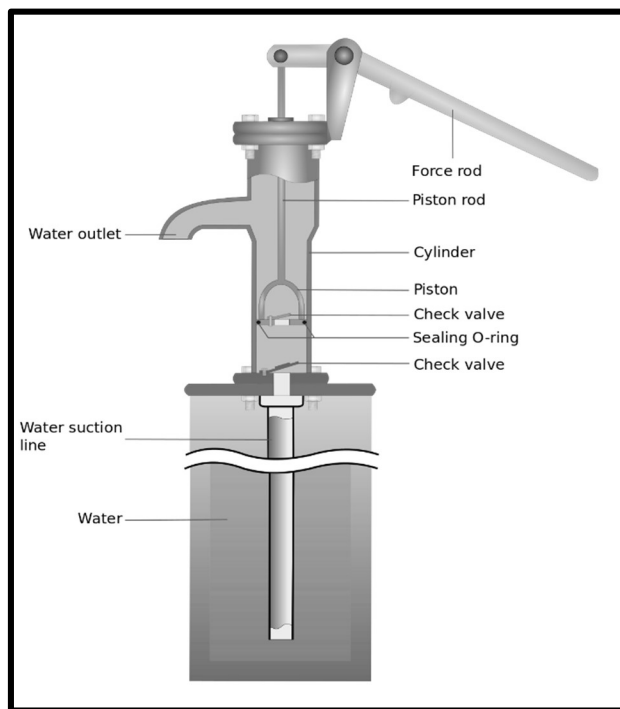
### Hand Pump

Wells have been around since the Stone Age (2.6 million years ago). If there are no good water sources around, ground water from an aquifer may be the best and safest way to have reliable water. An aquifer is a layer of holey rock that can contain water. Most of the water at the former Engh farm and throughout Sycamore is from an aquifer.

Before the 19<sup>th</sup> century, digging a well by hand was the only way to get to the water stored in the ground. One well in England actually took many years to hand dig and its is as deep as the Empire State building is tall (1,250 feet). The fastest way to get water out of the well is with a hand pump. Here is a picture of how the hand pump works.

**Find the hidden words in this word search.**

E	Z	L	H	J	Z	V	H	Z	Z
O	A	A	A	I	I	T	H	N	C
Q	I	G	N	I	G	G	I	D	A
R	D	D	D	H	I	A	H	Q	L
E	R	N	P	T	V	W	U	R	R
B	F	W	U	F	E	I	B	E	E
D	A	V	M	O	F	H	V	T	V
E	C	N	P	E	R	L	A	A	V
Q	S	H	R	Y	A	G	V	W	V
W	E	L	L	V	J	U	E	E	B



**AQUIFER  
HANDPUMP  
WELL**

**DIGGING  
VALVE**

**GROUND  
WATER**