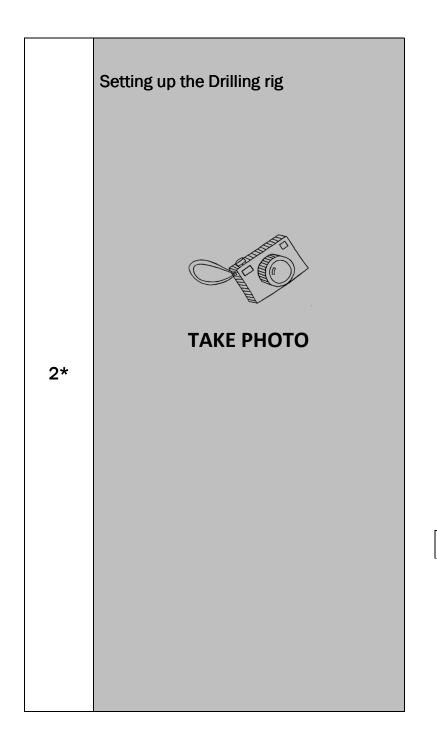
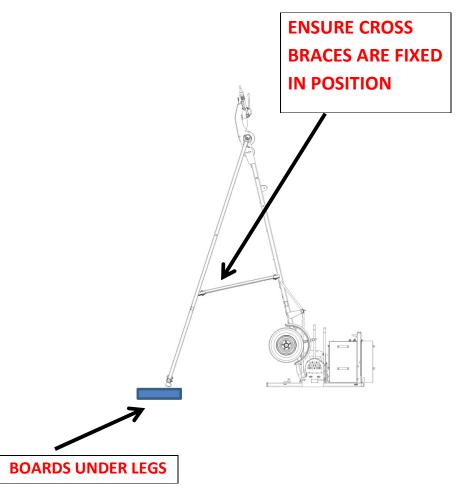




| Stage | Activity | |
|-------|-----------------------------|---|
| | PREPARATION SAFETY CLOTHING | ANIOP |
| 1 | Hard hat, boots & gloves | |
| | SAFETY FENCE | |
| | Around work area | |
| | | |





Drilling

Drill to 10 metres, or to collapsing zone, using 8 inch diameter tools without casing.

ROCK

3.

If rock is found fit 8 inch California chisel.

Follow the rock drilling strategy - drill 2 inch depth in 2 hours drilling.

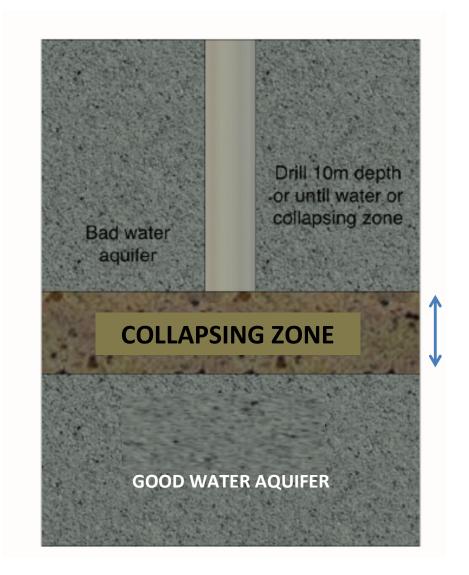
If there is no progress move to a new location.

Once through rock replace California chisel with original soft earth percussion drill.

Continue to 10 metres or collapsing zone

MEASURE DEPTH OF COLLAPSING ZONE AND NOTE DOWN

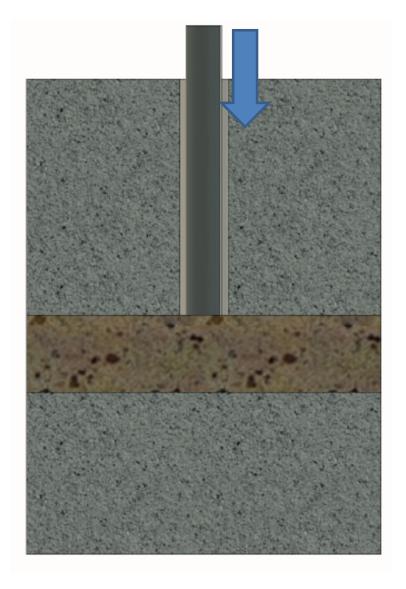




Insert Casing

At 10 metres or when water or the collapsing zone is found, insert 6 inch casing.

This is easy as the hole is 8 inch diameter and the casing is 6 inch diameter.



Drill to 20m depth

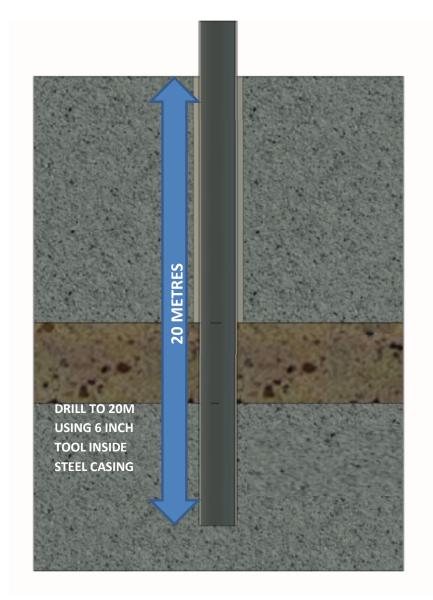
Continue drilling 6 inch hole using drills inside the 6 inch casing.

Keep adding casing as the hole gets deeper.

Use the "suction technique" of rapidly lifting and releasing the casing a short way to move the spoil from the hole and to create space for the casing to fall.

MEASURE DEPTH OF FINISHED BOREHOLE AND NOTE DOWN





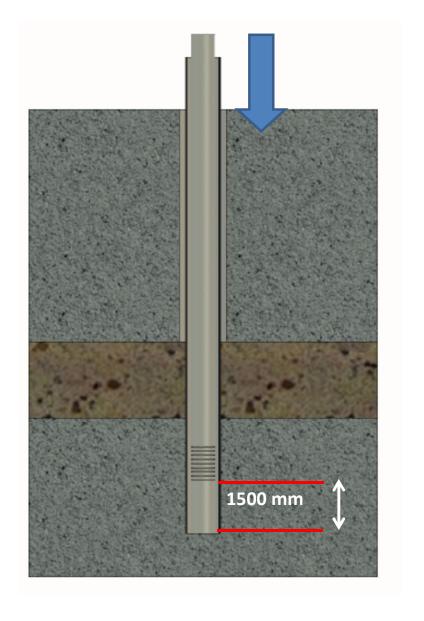
5.

Insert 4 inch plastic casing pipe

6.

Ensure slots in plastic pipe are 1500 mm minimum from the bottom of the pipe.

Drop 4 inch plastic pipe down inside casing to rest on the bottom of the borehole.

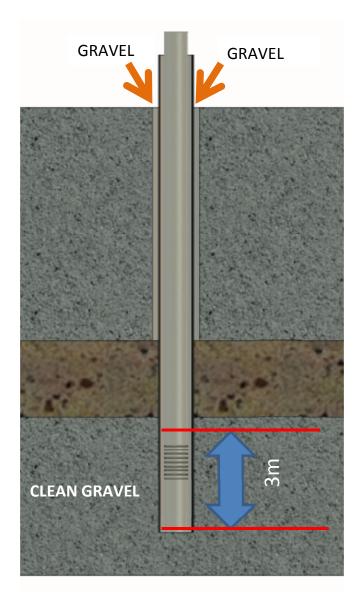


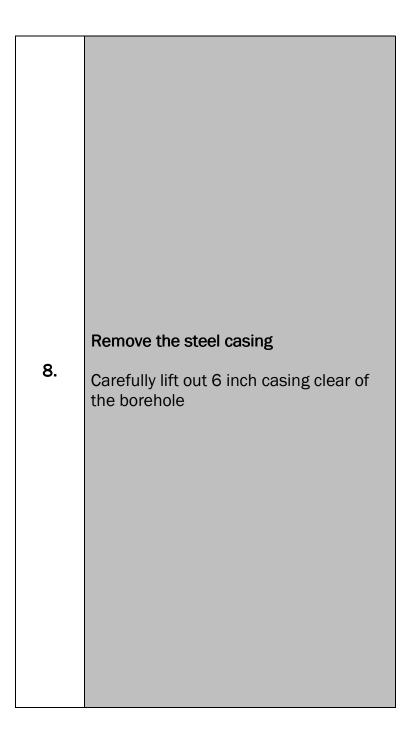
Insert clean gravel

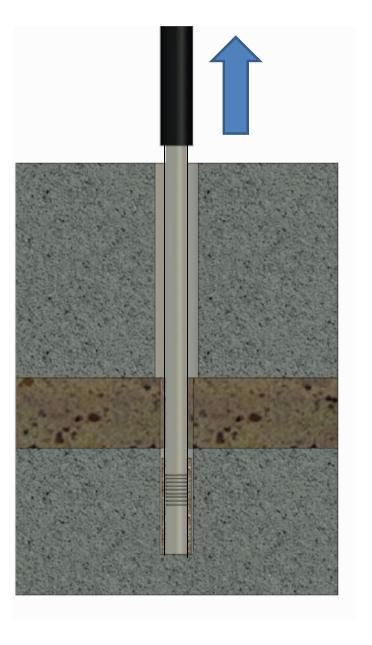
7.

Pour sufficient clean gravel down side of plastic pipe to give a minimum depth of 3 metres from the bottom of the borehole.

The gravel will act as a water filter for the pump and stops silt clogging the slots in the plastic pipe.





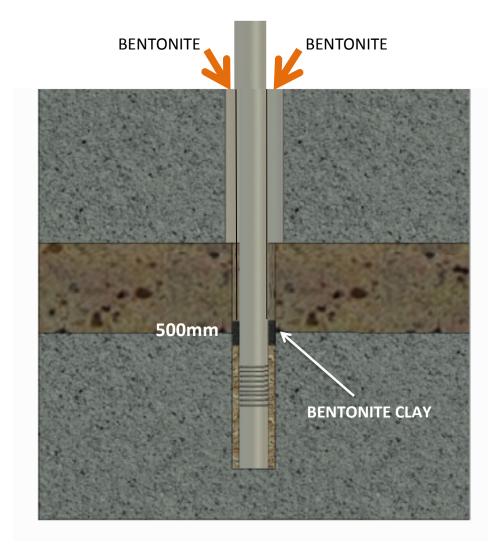


9.

Pour sufficient Bentonite clay pellets down side of plastic pipe to form a 500 mm deep seal.

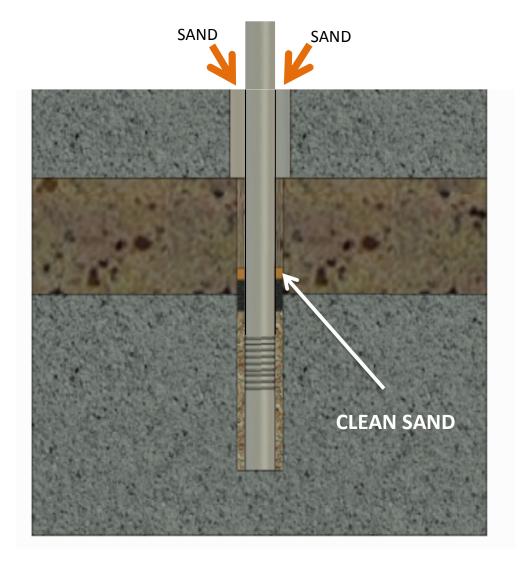
When water is absorbed by the Bentonite it will expand and form a seal.

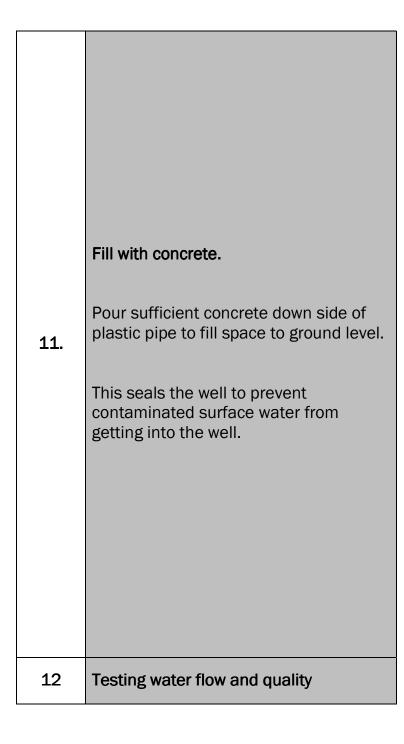
The clay seal prevents dirty water from contaminating the well

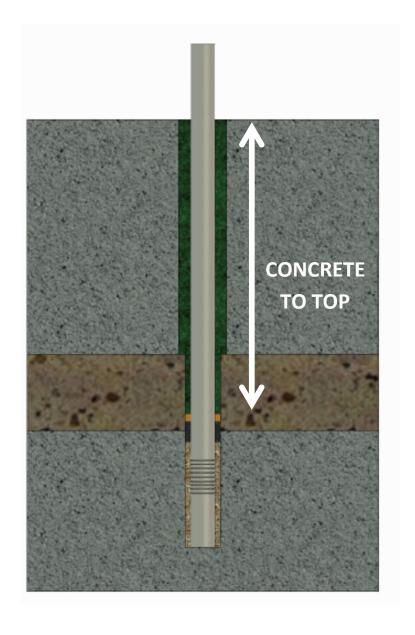


Insert Sand

Pour sufficient clean sand down side of plastic pipe to form a 300 mm deep seal on top of Bentonite.



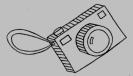




Construct the concrete capping around the top of the well.

Fix and test the pump

13*



TAKE PHOTO

