

Application Report - No.104

Well Pipe



Evergreen Housing Development in Tampa needed a pump to pump out of a 12" well pipe where the surface of the water was 36 feet down.

They also needed to fill a 5000 gallon water tanker as quickly as possible, without disturbing the natural opening of the well.

Even if it were possible to place a suction strainer inside the 12" well lining, a suction lift pump would only be capable of lifting a maximum of 30 feet, so the only other possibility would be a 2" electric submersible. Unfortunately the electric submersible could not produce sufficient volume to do the job quickly.

Another alternative would have been to use the submersible to pump into a holding pond and then use a suction lift pump to fill the tanker. However, this would have incurred a great deal more cost, as with the very dry soil conditions, the pond would have needed lining.

The final solution to the problem was to cut a bench in the soil and lower the S150 Seltorque (Holland build) suction lift pump to a level 10 feet below the natural soil level. A hole was burnt in the 12" liner and a 4" suction hose with strainer inserted. This was able to provide the customer with 250gpm and fill the tankers within 20 minutes.

End result, happy customer... Finishing Faster!



	S150
Power Requirement	32hp
Pump Speed	1600rpm
Capacity - US Gallons	1408gpm
Suction Lift	30ft
Max. Solids Size	4in
Air Handling	50ft ³ /min
Inlet / Outlet Port	6in
Delivery Head	70ft



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