



**LARGE DIAMETER WATER
WELL DRILLING**



DRILLING METHODOLOGIES AVAILABLE

DUAL ROTARY (AIR/MUD/RC): Dual Rotary Drilling is a specialized technique to manage highly unstable formations (boulders, gravels, fractured) in a safe manner that does not impact the production characteristics of the aquifer. Drilling and simultaneous casing is done at the full diameter of the well. We operate 4 Dual Rotary drills with casing rotator capacities of 24 and 26 inches. The drilling can be done by Rotary, DTH Hammer and Reverse Circulation as required.

OPEN HOLE DRILLING (AIR/MUD/RC): Conventional open hole drilling in all types of suitable formations by DTH Hammer from 6" to 25" or Rotary Mud and Air up to 36".

CIRCULATION: Mud Circulation packages rated to 1750/750 psi @ 450/800 GPM and Air Circulation packages rated to 2400 CFM @ 1000 psi. Multiple air compressors can be coupled in case higher volumes of air are required for larger diameter drilling. Mud Packages are coupled to 500 GPM Solids control units with shakers and de-sanders. Multiple units can be coupled for up to 1500 GPM.

WELL INSPECTION, LOGGING AND TEST PUMPING

WELL INSPECTION: Borehole camera inspection available for depths up to 300 meters. The camera system incorporates a dual camera system to inspect both the bottom and sides of the well. Especially useful in inspecting the conditions of casing joints and well screen condition. The camera system creates a DVD of the inspection for later use.

WELL LOGGING: Well logging is available for boreholes up to 600 meters deep. The self-contained logger interfaces with WellCAD to prepare industry standard log sheets. The logging parameters available are SN, LN, SPR, SP, Natural GAMMA, Caliper, Temperature and Fluid Conductivity.

TEST PUMPING: Borehole test pumping equipment is available from 4" diameter pumps to 14" diameter pumps ranging from 1m³/hr. to 800m³/hr. discharge. The units are all self-contained with a derrick and winch to operate independent of the drill rigs. Generator sets from 38 KVA to 250 KVA are available. Flow is measured with Ultrasonic Flow Meters and level measurements by manual dippers. Well loggers can be used in long-term tests or where multiple boreholes are being simultaneously tested in a well field situation.



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