

INTEGRATED ELECTRIC SUBMERSIBLE PUMPING SYSTEMS HAVING ELECTROMAGNETICALLY-DRIVEN IMPELLERS

ABSTRACT

Systems and methods presented herein facilitate pumping of various fluids such as well fluids. An electric submersible pumping system is constructed with an outer housing which contains integrated pump and motor stacks. The pump may comprise an impeller disposed within a stator of the motor. The integration of the pump and the motor enables elimination of various components of traditional electric submersible pumping systems to thus provide a simpler and more compact system for pumping fluids. In addition, the integrated pump and motor stacks include radial and thrust bearing components at various locations to support various radial and axial loads on the components of the integrated pump and motor stacks.

[FIG. 1]