CENtrilift ESP Recirculation System
Improve gas handling while maximizing pressure draw down for greater production

However, placing the ESP system below the perforations creates operating conditions that can negatively impact the equipment. While gas is naturally separated by placing the system below the perforations—eliminating the issues related to gas entering the ESP—reliability becomes a concern because fluid does not flow past the motor at the appropriate velocity to ensure motor cooling. To overcome this issue, the ESP motor can be encased in a shroud, but the use of a shroud can limit the size of the ESP system and, therefore, production rates.

The patented CENtrilift™ ESP recirculation system solves the challenges associated with placing an ESP below the perforations. The system design includes a recirculation pump and special tubing to redirect high-velocity fluid flow past the motor, ensuring the necessary motor cooling and greater ESP reliability. The system eliminates the need for a motor shroud, allowing operators to size the ESP system to maximize production, improve pressure draw down for greater reserve recovery, and optimize capital expenditures.

The CENtrilift ESP recirculation system also can improve the chemical treatment program in a well, regardless of where the equipment is placed in the well. The chemical treatment injected into the well is pumped through the recirculation pump, which mixes the chemicals with well fluid before they come in contact with the ESP system metallurgy, minimizing any impact on the equipment. Plus, the recirculation system precisely places the chemical treatment below the ESP motor to provide maximum protection for the motor.

For more information on how the CENtrilift ESP recirculation system can help you improve your production performance, contact your local Baker Hughes representative.