

Solution to ensure the rigless deployment and save up to 40% OPEX

Challenges

- Financial losses due to the workover crew while faulty ESP replacing or installing the new one
- Negative impact on the well with killing fluid
- Environment risks from showings of oil-gas and water

Results

- Quick and save installation:
 - no need for a rig
 - no need to stop or kill well
- Reduce OPEX up to 40%
- Saving of flow rate and reservoir properties of the well

Each replacement of failed submersible equipment or installation of a new ESP bears major OPEX.

Our innovative solution allows the fast installation of submersible equipment with no damage to the bottom-hole area. The unique 29.5 ft (9 m) long Thru-Tubing ESP (TT ESP™) by Lex is cable deployed into 3.5" (89 mm) tubing thru the wellhead lubricator.

For producing companies, replacing a faulty ESP, or installing a new one leads to heavy financial losses associated with payment to the workover crew, extra relocation of technical and human resources from other tasks to the current one, and profit loss due to downtime. Additionally, there is a risk of the trip-shows ruining the environment. That is why onshore, or offshore pulling-and-running operations are naturally unsafe and need highly qualified staff and special support equipment.

The standard submersible equipment requires a special workover service rig and killing fluid that may adversely impact the reservoir properties in the bottom-hole area.

We have developed an advanced solution that is especially relevant for offshore, geographically remote, and hard-to-reach oil fields. We offer a compact 29.5 ft (9 m) long Thru-Tubing (up to 12,000 rpm) electric submersible pump. The unit is cable-deployed in a casing and can be mounted through 89 mm tubing. The installation is

carried out through the wellhead lubricator.

TT ESP™ installation does not require the workover rig, shutdown, or killing wells with a heavy fluid that damages the bottom-hole area, reduces productivity, or complicates putting a well on stream.

Our solution helps reduce OPEX up to 40%, prevent long-term negative impact to the bottom-hole area of the well, and enhance employee safety of work.