

Longest running ESP in Sudan sets new record with 9.5 years of production

Reliable SPECTRUM high performance ESP system installed



An operator in Sudan has achieved a record breaking 3,472 days of run life from an Alkhorayef Electrical Submersible Pump (ESP) system. Despite being the newest vendor to this market, Alkhorayef has outperformed established competition with this 9.5 year run life, officially the longest running ESP ever installed in Sudan.

The onshore field is remotely located and in an area that has seen frequent hostilities due to civil war and militant invasion. Lack of access and erratic power supplies required a robust and dependable design. Alkhorayef installed equipment to ensure continuous, reliable production in May 2006. Long term surveillance and optimization by the local team allowed the pump to lift more than 1.2m barrels of oil and 7.1m barrels of water. The 500 plus restarts caused by the power issues exerted severe mechanical and electrical stresses on the ESP and eventually led to the failure after 3,472 days.

The record breaking run life provided by Alkhorayef equipment increased production, saved workover costs and gained the customer over USD 2 million in additional revenue*.

SUDAN



SOLUTION

- Produced 1,249,920 barrels of oil
- ESP Run Life Record in country broken & significantly extended
- Revenue maximized as increased uptime eliminated workover costs & deferred production

BACKGROUND

- Remote, war-afflicted onshore field
- Newly completed field, Alkhorayef first ESP installed
- 25 API
- 50% Expected Water Cut
- 50Hz 3,000 RPM Fixed Speed application
- Power quality concerns

RESULTS

- New record run life in Sudan of 9.5 years
- Increased production – 8,332,800 barrels of fluid lifted
- Delivered revenue of nearly USD 62.5 million* over life of system
- Extended run life led to revenue increase of over USD 2 million*

* Calculated at USD 50 per barrel