
Offshore Application: Multiphase System – West Africa

Challenge

Determine the effectiveness of LiquidPower[™] Flow Improver 100 in a multiphase production system.

Objectives

- Stabilize system operation by reducing slugging in the pipeline
- Increase production capabilities

Background Data

The pipeline transports approximately 7000 bbls/day between systems that are 3.5 miles apart with a GOR of approximately 1400 scf/barrel. The wells were choked because of the pipeline restriction that resulted from unstable separator operation due to high-pressure swings on the pipeline.

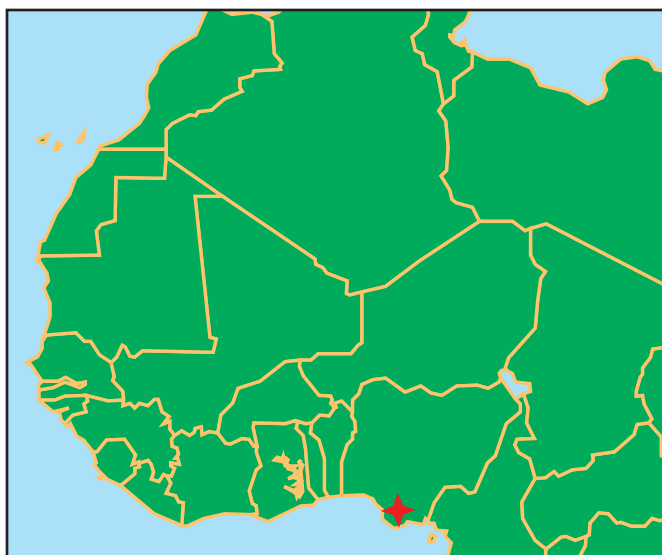
Performance Summary

Drag reduction of 20-21% was achieved with LP[™] 100 that equated to an increased production of 17%. Additional wells, equating to an additional production of 1200 barrels/day, were brought on line and slugging was stabilized with operation of the separator significantly improved.

The application of LP 100 reduced the slugging in the pipeline which stabilized the separator operation and enabled an immediate increase in production from the wells.

Benefits

The additional throughput enabled the operator to realize increased annual revenues in excess of \$11 million demonstrating that LP 100 works effectively in multiphase systems.



Additional Services

In addition to the supply of products, hydraulic predictive performance calculations and technical service support for multiphase, water and crude pipelines systems can be considered for analysis.

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