



Weatherford®

REAL RESULTS

Rotaflex® Long-Stroke Pumping Unit Achieves Run Life Almost Three Times Historical Average

Objectives

- Extend the run life while maintaining the same production level in a well plagued with valve malfunctions due to the rod pump working on a deviated zone. The average run life for the well was 178 days.

Results

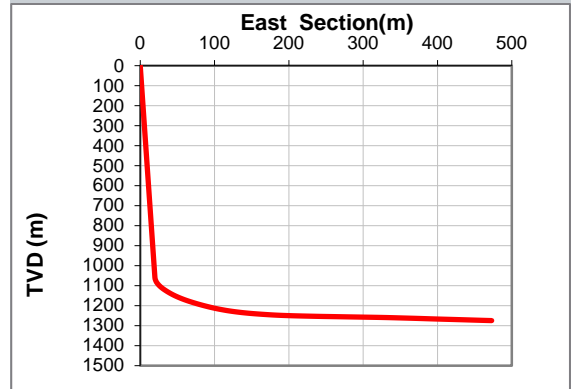
- Weatherford installed a Rotaflex 900 long-stroke pumping unit to reduce the pumping speed, friction loads, and mechanical wear of the sucker-rod string and rod pump. To further reduce friction loads allocated in the deviated zone, a 2 7/8-in. tubing with Policore® 2-in. internal diameter (ID) internal coating was used.
- To achieve the target production of 250 BFPD (39.75 m³/d) with minimum friction, Weatherford personnel installed a special tubing pump that consisted of the following:
 - Special standing and traveling valve cage for deviated wells
 - Plunger, spray metal, 4-ft with a 0.003 in. clearance
 - Connector, on-off AT-90
 - Special upper connector to 2 7/8-in. - 8RD pipe
- The pump was positioned at 4,180 ft (1274 m) total vertical depth (TVD) and 5,325 ft (1623 m) total measured depth (TMD).

Value to Client

- The installation of Weatherford's Rotaflex unit achieved a run life of 519 days, a 213-day increase over the previous rod pump and 341 days more than the well's average run life at the same production level of 250 BFPD.
- Due to the extended run life, the client saved US\$150,000 in pulling savings, three pulls less than the run life average of 178 days.



Weatherford's unique-designed Rotaflex long stroke pumping units feature a stroke length of up to 25.5 ft (7.8 m) and an innovative 100%-mechanical reversing-mechanism design.



The table above illustrates the deviation survey for this well.

Extraction Date	Installation Date	Run Life (days)
January 14, 2012	August 13, 2010	519
August 13, 2010	October 11, 2009	306
October 11, 2009	September 14, 2009	27
September 14, 2009	December 20, 2008	268
December 20, 2008	July 11, 2008	162
July 11, 2008	March 11, 2008	122
March 11, 2008	September 7, 2007	186

The table shows the run life history of the well. The average run life for the well is 178 days.

Location
Argentina

Well Type
Onshore, horizontal oil

Pump Depths

- 4,180 ft (1274 m) TVD
- 5,325 ft (1623 m) TMD

Products/Services
Rotaflex 900 long-stroke pump unit

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