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ParaLax treatment in Turkmenistan

The Burun Field produces oil from a sandstone formation with Gas Lift drive system (GL). Well B315 was selected for the ParaLax application and has a depth of perforations at 3720m – 3733m and the crude oil has approx 15% wax content.

Before ParaLax application, the operating company was constantly monitoring tubing and casing pressures for plugs in the tubing. Upon stoppages, a slickline unit (a lifting device similar to a winch crane) was brought in and used to cut wax.

Slickline wax cutting has to be done every 4-7 days when wax buildup is observed. Special ParaLax treatment procedure was developed for GL wells

Procedure:

1. Spot 2 tanks, pumptruck, slickline wax cutting unit on the wellsite
2. Make up all necessary connections of pipes, hoses, flanges, etc.
3. Wax cutting done prior to ParaLax job to clean tubing ID
4. 110 gallons of ParaLax were mixed with 20 cubic meters of crude (resulting in a mixture of approximately 2% ParaLax-to-crude solution)
5. PLTO (ParaLax Treated Oil) was injected into the formation via the well head.
6. Pump overdisplacement second batch of 20 cubic meters of crude that did not contain ParaLax. This resulted in PLTO being pushed through the entire well and into the formation all within a period of 2 hours.

Result:

- Wax cutting prior to ParaLax job was last for the period of 14 weeks. Wax buildup was observed between 13th and 14th week.
- Well output rose from a pre-treatment average of 113 bbl/day to a post-treatment average of 140 bbl/day, an increase in production of 24%.
- This level of output was maintained throughout the post-ParaLax-application monitoring period of approximately 13-14weeks.



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