



**NORTH
SIDE**

**MULTIFUNCTIONAL
FLOWJET PUMP SERVICE**

**FLOWJET PUMP FOR
ZONAL WELL TESTING**

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Case Study: Drill Stem Test

DST was performed at the power fluid pressure of 160, 180, 210 bar at the surface while measuring the pressure and temperature downhole. Several flow periods were recorded with intermittent short build-ups and a final long build-up lasted as long as 44 hrs. As the production rate data during

the DST was not measured accurately (only approximate rate 0.1-1.9 m³/hr available), therefore the fluid flowrate input became a part of the interpretation and was adjusted. As per third party data WC varied in a range of 95-99%.

Problem statement:

- The Customer decided to evaluate the potential producing formation. No natural flow at the surface was expected due to very low formation permeability and high viscosity of fluid. The initial pressure, formation fluid nature and reservoir properties to be acquired from DST.

Problem solution:

- FlowJet pump was advised to perform the required drawdown to make the well flow.

Results:

- Extensive zonal DST has been successfully performed.
- The formation fluid nature was understood.
- Reservoir properties were obtained from the pressure transient analyses with the excellent model match to the real data.

