

Wireline Pump Down Load Cell

Industry: Energy

Summary

Customer Challenge

Pump down operation is used for horizontal wells in the oil field. Fluid is pumped to push tools down deviated or horizontal wells. Operations could include plug setting, and perforation. Accurate tool string tension readings are required for this downhole procedure.

Interface Solution

The IPCD Pressure Compensated Downhole Load Cell is an accurate and superior load cell over wet or hydraulically compensated load cell options. Featuring proprietary pressure and temperature compensation, offering precise and real-time tool string force measurements.

Results

Customer was able to carefully regulate tension forces on the toolstring during the pump down procedure, avoiding expensive pump off tool separation.

How It Works

1. The IPCD Pressure Compensated Downhole Load Cell is attached at the top of the tool string.
2. During pump down, the IPCD measures the tension between the cable head and the tool string.
3. Connected to the customer's instrumentation, actual cable head tension is closely monitored during the pumpdown process.

Materials

- IPCD Pressure Compensated Downhole Load Cell
- Customer Instrumentation

Horizontal Wireline Pump down

IPCD Pressure Compensated Downhole Load Cell

