

Proppant Crush Test Load Cell

Industry: Natural Resources

Summary

Customer Challenge

Proppant crush tests are conducted to test the resistance of the proppants that are used during hydraulic fracturing operations. The test is done to determine the degradation characteristics of proppants crushed at a specific forces.

Interface Solution

Interface's 1101 Compression-Only Ultra Precision LowProfile™ Load Cell is installed into the servo controlled load test frame. A stress load is applied to the crush cell, and the 1101 captures the force data. Data is displayed, graphed, and logged on the customer's computer when connected to the INF-USB3 Universal Serial Bus Single Channel PC Interface Module.

Results

Interface's 1101 Compression-Only Ultra Precision LowProfile™ Load Cell successfully captured the force data during the proppant crush test experiment, and determined the proppant's degradation characteristics at different forces applied.

Materials

- 1101 Compression-Only Ultra Precision LowProfile™ Load Cell
- INF-USB3 Universal Serial Bus Single Channel PC Interface Module with supplied software
- Customer PC or Laptop
- Customer proppant crush test frame

How It Works

1. 1101 Compression-Only Ultra Precision LowProfile™ Load Cell is installed into the proppant crush test load frame. Different loads are applied to the crush cell.
2. The data is captured and displayed on the customer's computer when connected to the INF-USB3 Universal Serial Bus Single Channel PC Interface Module. Data can be logged and graphed with supplied software.

