Stirring Fluid Loss Test Assembly

Description

Fann's Stirring Fluid Loss Test Assembly is a reliable instrument for measuring fluid loss characteristics of an oil well cement, water-based mud, or fracturing fluid at a set temperature and pressure.

This instrument simulates filtration at downhole conditions in a wellbore and measures the fluid loss. It is equipped with a stirrer to create circulation, a heating jacket to model the bottomhole circulating temperature (BHCT), and a 325 micron mesh screen and filter chamber to replicate the permeable zone. Pressurized nitrogen is applied to achieve the pressure differential between the annular and formation pressure.

Application

Controlling fluid loss during a cementing operation is critical. Successfully cementing the casing string of an oil or gas well is highly dependent upon the characteristics of the cement slurry. Oil well cements that have poor filtration control can lead to a failed cement operation. Also, the invasion of filtrate into the producing zone can cause formation damage, significantly reducing a reservoir's production potential.

Developing cement slurries that have minimal filtration loss can prevent expensive remedial cementing operations and can reduce formation damage.

fann®

Advantages

- Designed to allow slurry preconditioning and testing in same cell, eliminating the need to cool or transfer hot slurry.
- Temperature Controller to set and maintain the ramp and test temperature.
- Timer that shows elapsed time for the test duration, stirring, and fluid loss.
- Pressure gauges to monitor and control the supply and chamber pressures.

Specifications	
Maximum Temperature	400°F (204°C)
Maximum Pressure	2,000 psi (13.8 MPa)
Power	230 VAC, 9 A, 50/60 Hz
Fluids Required	Water for cooling
Pressure Source	1,500 psi (10.3 MPa) Nitrogen
Filtration Area	3.5 in^2 (22.6 cm^2)
Measured Property	Fluid Loss, filtrate volume/time

Ordering Information

Part No. 210194 — Stirring Fluid Loss Test Assembly

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.

281-871-4482 www.fann.com fannmail@fann.com
 Effective Date: July 2013