BBS

Design and Manufacture of
Oil and Gas Equipment

Core Flooding Apparatus

A core flooding system is a system that flows a fluid (liquid or gas) through a core sample at controlled conditions, and measures flow parameters. The Core Flood System enables to perform:

- Liquid permeability measurement
- Unsteady state 2-phase relative permeability
- EOR studies such as water flooding, gas flooding, chemical flooding and etc.
- Acidizing studies
- Fluid distribution in multi-layered reservoirs
- Formation damage tests
- Stimulation studies

Tests can be conducted using reservoir or outcrop core material at specified temperatures and pressures.
The unique design of the system allows an easy access to all components.

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Features:

Maximum working pressure: 400 bar (6 ,000 psi)
Maximum confining pressure: 400 bar (6 ,000 psi)
Maximum working temperature: 150°C
Range of flow rate: 0.001 to 100 cc/min
Core length: 7 to 30 cm
Material: Stainless steel/ Hasteloy (upon request)
Power supply: 220 VAC, 50/60 Hz

Note: The aforementioned features can be changed upon the request.

Components:

- Core holder(s)
- Transfer vessel(s)
- Dual injection pump
- Hand pump(s)
- Back pressure regulator
- Data acquisition
- Differential pressure transducer
- Oven