Benchtop Core Flooding System

Flowing a fluid (oil/gas) at desired temperature and pressure

Generally, a core flood system is a system that flows a fluid (gas or liquid) through a core sample at controlled pressure and temperature conditions and measures or monitors flow parameters.

Experiment Description

The dry core is saturated with brine. Then saturated core is flooded by oil until the saturation water reaches to the reservoir initial water saturation conditions. Afterwards oil saturated core will be flooded by brine at high pressure/temperature condition. The relative permeability of oil/brine will be estimated. Total oil production versus time will be plotted.

Specification	BCF-PR01	BCF -PR05
Core Length	2″ to 6″	2″ to 6″
Core Diameter	1.5″	1.5″
Working Temperature	120˚C	120˚C
Max. Pore Pressure	6,000 Psi	6,000 Psi
Max. Confining Pressure	6,500 Psi	6,500 Psi
Pressure Accuracy	0.1% F.S.	0.1% F.S.
Number of Differential Pressure Transmitter	1 (145 Psi)	1 (145 Psi)
Number of Accumulators	3	3
Input Power Supply	220 VAC, 50Hz	220 VAC, 50Hz
Pressure Taps: Inlet and Outlet of Core Holder	✓	✓
Stainless Steel Material	✓	✓
Force Convection Oven (500 Liter)	✓	✓
Hassler Type Core Holder	✓	✓
Core Holder Position: Horizontal	✓	✓
Downstream Pressure Controller	✓	
Hydraulic Hand Pump	✓	✓
Computer System	✓	✓
Automatic Data Acquisition and Monitoring System	✓	✓
Digital Upstream and Downstream Pressure	✓	✓
Digital Confining Pressure and Back Pressure	✓	✓
Digital Cell Pressure	✓	✓
High Pressure HPLC Pump	✗	✓

Contact info:
+98 71 3624 6968 / +98 71 3624 7604
info@petroazma.com
www.petroazma.com

Address:
Fars Science and Technology Park,
Aryan St., Dr.Hesabi Blvd., Shiraz, I.R.Iran
P.O Code: 7197687811