

Porosity Measurement

Porosity determination of a core plug

Measuring of porosity of a rock is necessary in order to interpret the reservoir behavior and capabilities in terms of hydrocarbon storage and production. Moreover, this main property of rock is beneficial to geotechnical researches as well as non-petroleum areas. The porosity of a material is defined as the ratio of the volume of open space (pore volume) to the total volume (bulk volume).

Experiment Description

In this experiment, helium percolates to the sample from a reference volume. Pressure drop during the test is measured. Pore volume is estimated from Boil-Mariot's law. Considering the bulk volume of the sample, effective porosity of the sample can be estimated.



Specification	HPR -BR01	HPR -PR01	HPR -PS01
Reference Cell Pressure	120 Psi	Up to 120 Psi	Up to 120 Psi
Pressure Accuracy	1% F.S.	0.5% F.S.	0.05% F.S.
Core Diameter	1" & 1.5"	1" & 1.5"	Up to 1.5", Up to 4"
Core Length	up to 4"	up to 4"	up to 4"
Input Power Supply	220 VAC, 50 or 60 Hz	220 VAC, 50 or 60 Hz	220 VAC, 50 or 60 Hz
Computer System Control	✗	✓	✓
User Friendly Automated Data Acquisition, Calculating and Reporting Software	✗	✓	✓
Automatic Core Loading	✗	✗	✓
Control Valves	✗	✗	✓

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