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## Routine Core Analysis Porosity

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### **Routine Core Analysis Porosity Measurement**

In samples having a porosity greater than 30%, sidewall core porosity is 1 to 2% lower than conventional analysis porosity. This results

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### Analysis Porosity

from slight compaction that occurs during coring. Medium and low porosity percussion sidewall samples, especially from highly cemented rocks, display porosity that is much too high due to fracturing and grain shattering.

## **Overview of routine core analysis - AAPG Wiki**

The set of measurements

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normally carried out on  
core plugs or whole  
core. These generally  
include porosity, grain  
density, horizontal  
permeability, fluid  
saturation and a  
lithologic description.  
Routine core analyses  
often include a core  
gamma log and  
measurements of  
vertical permeability.  
Measurements are  
made at room  
temperature and at  
either atmospheric

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## Routine Core Analysis Porosity Measurement Magritek

confining pressure,  
formation confining  
pressure, or both.

### **routine core analysis - Schlumberger Oilfield Glossary**

Routine (or basic or conventional) core analysis typically involves fluid saturation measurements and petrophysical measurements on dry plugs and samples at ambient or laboratory

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conditions. The data are principally used to characterise the reservoir properties and for log-core integration.

**Routine Core  
Analysis -  
ScienceDirect**

Measurement of porosity in the laboratory is part of Routine Core Analysis, sometimes referred to as PKS Analysis (porosity, permeability,

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### Analysis Porosity

and saturation (analysis). Core samples are rock samples that are cut from the reservoir formation using specialized Coring Bits. The extraction of core samples is a very complicated process and requires a lot of planning. When cutting a core, all phases of the coring process must be considered to ensure that the porosity is not altered

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## Routine Core Analysis Porosity Measurement

prior to its ...

### **3.2.1: Porosity from Laboratory**

#### **Measurements | PNG 301 ...**

Core Analysis - Routine  
Core Analysis and  
Special Core Analysis

The objective of Core  
Analysis is to measure  
core and fluid  
parameters to assist in  
efficient recovery of  
hydrocarbons. The goal  
is to reduce the  
uncertainty in reservoir

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Measurement  
Madhukar

evaluation by providing reservoir data that is representative of the reservoir at in-situ conditions.

**ROUTINE CORE  
ANALYSIS -  
METAROCK  
Laboratories**

Porosity is a measure of the reservoir storage capacity. It is defined as the void volume (pore volume) of a sample divided by its bulk volume. It enters

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most equations as a fraction and is reported in core analysis studies as a percent. It varies from less than 10% to greater than 40% in sandstones and from 5% to 25% in limestones and dolomites.

### **Coring and Core Analysis (Porosity Measurement ...**

CORE POROSITY  
BASICS. Porosity is an  
intrinsic property of

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### Analysis Porosity

reservoir rocks and indicates the storage capacity of the reservoir. It is used as a primary indicator of reservoir quality, and along with a few other factors, to calculate hydrocarbon volume in place, and recoverable reserves.

Petrophysicists use core porosity values to help calibrate porosity derived from well log data.

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**Crain's Petrophysical  
Handbook | Core  
Porosity**

CMS™ -300 Core  
Measurement System,  
Model 300 Stage4.00,  
integrated, automated  
computer-directed,  
unsteady state  
pressure decay  
Permeameter and  
Porosimeter.  
Determines Sample  
Length, Sample  
Diameter, Porosity  
(0.01 to 40 percent),  
Pore Volume,

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### Analysis Porosity

equivalent air permeability at a specified mean pressure, Klinkenberg Permeability (equivalent liquid permeability) Forchheimer Inertial Factor (Beta & Alpha), and Klinkenberg measured slippage correction factor at programmable, net sequential ...

**Core Laboratories:**  
**Core Measurement**

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### Analysis Porosity

#### **System, CMS-300**

We also conduct routine petrophysical analyses such as bulk density, grain density and porosity in our Laboratory facilities. Bulk density is measured with a calibrated caliper for regular plugs or by mercury immersion for irregularly shaped samples. Grain density and porosity are measured with our Helium porosimeter.

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## **Grain density and porosity : ALS**

Through measurement and analysis of porosity, permeability and fluid saturation from core samples, operators are better able to characterize pore systems in the rock and accurately model reservoir behavior to optimize production. Core analysis is vital for determining rock.

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## **Core Truth in Formation Evaluation - Schlumberger**

Core analysis directed on reservoir properties—overview. Andersen et al. (2013) note “The basic description of core material comes from routine analysis. This service includes measurement of porosity, saturation and permeability to

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### Analysis Porosity

answer three  
fundamental questions  
about a reservoir.

### **Core Analysis - an overview | ScienceDirect Topics**

In contrast, humidity-dried core analysis porosity includes the void space of all interconnected pores plus the volume of all bound water in excess of the volume of a film of water, two molecules thick,

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retained by smectite. Keelan reported that removal of this film may increase porosity 3.3 porosity points in rocks containing 10% smectite.

### **Porosity - AAPG Wiki**

Therefore, for routine core analysis, brine concentration range of 0.876 mol/L to 1.168 mol / L and core diameter and length of 3.80 cm and 6.0 cm can be used for the d

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Measurement  
determination of  
reservoir...

**(PDF) Experimental  
Study of Brine  
Concentration Effect  
on ...**

Air permeabilities measured in a routine core analysis laboratory on rock samples from nonfractured reservoirs will give higher values than the actual reservoir permeability. This difference is

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dependent upon the  
magnitude of  
permeability as well as  
the pore geometry.

**Coring and Core  
Analysis  
(Permeability  
Measurement ...**

Products. Vindum  
Metering Pumps;  
Vindum CV Automated  
Valves; Vindum MV  
Needle Valves;  
Educational Products;  
Routine Core Analysis.  
Bulk Volume; Capillary

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## **Vindum Engineering - Vindum Engineering**

Most core analysts know that NMR can determine porosity and pore size distributions easily and quickly, but what about fluid mobility such as Bound Volume Irreducible (BVI), Free Fluid Index (FFI), Clay Bound Water (CBW), and effective porosity? Furthermore,

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what about  
permeability, capillary  
pressure, and oil/water  
or gas/water contents?

**NMR and Core  
Analysis Technical  
Datasheet**

analysis. The results  
from routine core  
analysis are used in  
interpretation and  
evaluation of the  
reservoir. Examples  
are prediction of gas,  
oil and water  
production, definition

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of fluid contacts and  
volume in place,  
definition of completion  
intervals etc. Data from  
routine core analysis  
and from  
supplementary tests  
and the application of  
these ...

### **January, 2003**

Laboratory  
measurements of  
electrical properties  
from core samples can  
be used to relate a  
reservoir rock's

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porosity, brine and  
hydrocarbon  
saturation  
Measurements  
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saturations to its in-situ  
electrical conductivity.

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