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Core Lab

Sanchez Technologies

PVT Cell 250 ml 2000 bar Full Visibility

Datasheet

Reservoir Fluid Analysis - PVT / PVT Studies

Sanchez Technologies | Thermodynamics & Core Analysis Laboratory Instruments

PVT 250/2000 Full Visibility

General Features

Our Reservoir Fluid PVT Analysis System composed of one set of PVT instrument (PVT 250/2000 full visual 250cc) and some ancillary equipment, as gasmeter, HP pressure sample cylinders, viscometer, etc.is able to perform analysis of different GOR reservoir fluids as crude oil, volatile oil, gas condensate and gas under high pressure and temperature conditions.
This system can process the comprehensive evaluation for oil and gas reservoirs.

Specifications	
Max. Working pressure	2000 bar
Max. Working Temperature	Ambient to 200°C
PVT Cell Volume	250 ml
Visual volume	250 ml
Accuracy on measurements:	
Pressure	0.1 bar
Temperature	±0.1°c
Liquid deposit	0.005 ml
Bubble/dew point repeatability	±0.35 bar
Resisting corrosive abilities	CO2 and H2S

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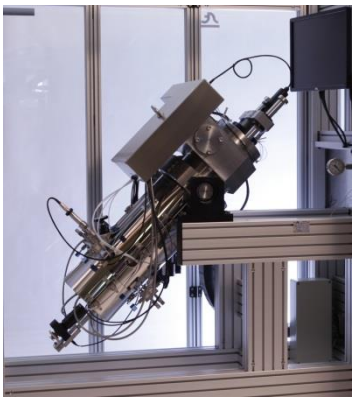
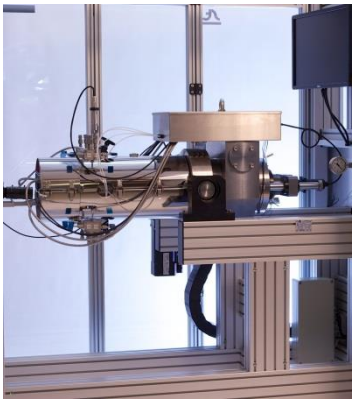
PVT 250/2000 Full Visibility

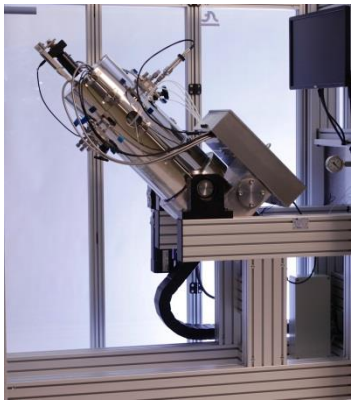


Measurements

The PVT 250/2000 with accessories is designed to perform:

- *A complete PVT study on oil and volatile oil GOR < 800 Sm3/m3 conducted in 4 stages:*
  - *Constant Composition Expansion (i.e. CCE) at constant temperature,*
  - *Differential vaporization at constant temperature,*
  - *Separation tests (several stages at different temperatures)*
  - *Viscosity measurement*
- *A complete PVT study on gas condensate with high GOR conducted in 2 stages:*
  - *Constant mass depletion (i.e. CMD)*
  - *Constant volume depletion (i.e. CVD),*
- *A recombination of separator oil or condensate and separator gas under reservoir conditions*
- *An analysis of viscosity, density, composition (accessories in option)*
- *Z factor determination*
- *Dew point determination by IR*
- *GOR*





Characteristics

- *Constant temperature control system*
- *Embedded motorized piston displacement pump*
- *Stirring by magnetic coupling*
- *Automatic valves*
- *Control cabinet*
- *Calibrated pressure sensor and temperature sensor*
- *CCD digital video camera 6M pixels*
- *Data acquisition and processing system*
- *High pressure valves, pipes and filters*
- *Back pressure regulator CVD valves (option)*
- *Phase state processing software (option)*
- *Uninterruptible power supply (option)*
- *Cooling system for PVT cell -20°C (option)*

Example of synoptic