

VISUAL LIQUID PHASE PVT CELL

The Visual Liquid Phase PVT Cell is designed for the study of liquid phase reservoir samples at elevated temperatures and pressures. The cell has a glass window with an aperture 1-3/4” long and 1/4” wide for observing the gas-oil or oil-mercury interfaces within the cell, but it is otherwise similar in design to the blind PVT cell.

The window is made of tempered glass approximately 1” thick and is recessed into the main body of the cell.

The cell can be tilted for making observations by using the valve handle or wrench as a lever after the connecting rod of the rocking mechanism has been disengaged.

The visual type cell is used to determine the same properties and characteristics of reservoir cells enumerated for the blind cell. It has the ability to duplicate the performance of the blind cell and offers several distinct advantages.

Windowed cells must never be viewed directly when pressurized.



VISUAL LIQUID PHASE PVT CELL

Specifications

PVT CELL

Test Pressure: 15,000 psi @ room temp.
10,000 psi @ 250⁰F

Working Pressure: 10,000 psi @ 300⁰F

Volume: 600cc

CONSTANT TEMPERATURE AIR BATH

The Constant Temperature Bath for the visual liquid phase PVT cell is similar in design to the 2315 bath.

ID.: 18”

Bath Capacity: 18 gallons (68.137 litres)

Max current consumption: 3700 Watts

H₂S SAFETY

H₂S (Hydrogen Sulfide) Properties

Colour: Colourless

Odour: Very offensive, commonly referred to as odour of rotten eggs.

Vapour Density: 1.5399 g/l H₂S is heavier than air.

Boiling Point: -76⁰F (-60⁰C)

Explosive Limits: 4.3 to 46% by vol. in air

Ignition Temp.: 500⁰F (260⁰C)

Water Solubility: 4 volumes gas in 1 volume water at 32⁰F

Flammability: Forms explosive mixtures with air or oxygen