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Product Name :
Well Bore Hydraulic Demonstrator

Product Code :
LBNY-0005-1910004



www.laboratoryinstrumentindia.com

Description :

Well Bore Hydraulic Demonstrator is designed to replicate many of the hydraulic conditions encountered in drilling operations. The Well Bore Hydraulic Demonstrator is a valuable tool for training process operators. These conditions are produced in a replica well-bore manufactured from industrial clear PVC that allows students to observe the flow patterns.

The Well Bore Hydraulic Demonstrator is equipped with process indication and manual control devices including metering valves and pressure gauges. Oil water and air represent the three common well-bore fluids liquid hydrocarbons, gaseous hydrocarbons, and produced water. The process fluids are recycled allowing for continuous operation without the discharge of either the oil or the water. The Well Bore Hydraulic Demonstrator is controlled by manually adjusting the various flow control valves.

Function:

The operator has control over several aspects of the flow inside the well-bore; the flow direction fluid flow rates, and the distance that the tubing is above the bottom of the hole. Throughout the well servicing and well production phases, the operator will create different flow patterns in the well-bore. The operator must balance these parameters to successfully achieve:

Containment of hydrocarbon-contaminated water

Control liquid flow rates

Positive control of well pressure

Safe Drilling and Servicing Operations

Containment of gas and liquid kicks

Technical Specification :

Integral storage vessels, separation equipment and blending unit.
Translucent for visual monitoring
Simulated water, liquid hydrocarbon and gaseous hydrocarbon streams
Complete cart-mounted unit with integral support structure.
Clear wellbore vessel 6 inches (150 mm) Diameter.



Laboratory Instrument India