PET 314: Drilling Engineering I (3 Units)

Department of Petroleum Engineering

Covenant University
1. PET314
1.1. PET 314: Drilling Engineering I (3 Units)

Drilling Technology: rig equipment (rig types, prime movers, drill strings, bits, BOP stacks), rig operations (circulating system, cementing, fishing)  Directional Drilling: types (vertical, deviated, horizontal), applications, planning and calculations  Basic Well Control: Concept of pressure, pore pressure, fracture pressure, bottom-hole pressure, pressure losses in circulating system, ECD, kicks and blowouts, lost circulations, calculations.