

Subsurface E&P Disciplines

A set of knowledge domains facilitating [Upstream](#) operations:

Petroleum Geology	Studying reserves structure and volumes
Rock Geomechanics	Studying response of rock and rock masses to the forces or displacements
Petrophysics	Studying rock properties
Reservoir Engineering	Modelling well and reservoir flow dynamics and generating forecasts
Well & Log Analysis	Designing and interpretation of well logs
Well Testing	Designing and interpretation of well tests
Production Analysis	Long-term analysis of production history
Fluid Analysis (PVT)	Modelling fluids produced from or injected into the petroleum reservoir
Drilling Engineering	Designing and monitoring the well drilling
Workover Engineering	Designing and monitoring workovers
Production Technology	Well Performance Analysis and Production Planning
Subsurface Chemical Engineering	Designing the chemical treatments facilitating the optimal well and reservoir performance
Field Development Planning	Creating Field Development Plans

The first three disciplines and a part of the fourth discipline are often refereed as [Geology and Geophysics \(G&G\)](#).

See Also

[Petroleum Industry / Upstream](#)

[[Field Study & Modelling](#)] [[Geology and Geophysics \(G&G\)](#)]

Reference

[AAPG Wiki – American Association of Petroleum Geologists](#)