



Laboratory services and consultancy of the highest standards.
Decades of experience around the globe.
Basin modelling and the understanding of legacy datasets
is a speciality of our experienced team.



Bespoke geochemical solutions

**APPLIED PETROLEUM
TECHNOLOGY**

Petroleum geochemical laboratories and consultancy

All analytical and interpretive services are provided for source rocks, kerogens, spore colour, hydrocarbon isotopes and biomarkers. Analytical techniques include;

- GCMS, GCMSMS
- Stable isotope mass spectrometry
- TOC & Source rock pyrolysis (Rock - Eval and Hawk™)
- Vitrinite reflectivity (VR, Ro) & Visual kerogen
- Density (API), pour point, viscosity, wax, Sulphur, Nickel, Vanadium, TAN
- Solvent extraction
- Topping of oils and condensates
- Composition MPLC and group separation by MPLC (SARA)
- Deasphalting
- Whole oil/extract and alkane GC

Reservoir geochemistry studies

- Fluid heterogeneity (compositional grading and connectivity) and quality prediction
- Tar mat presence and causes
- Production allocation, monitoring and integration of PVT data

Basin modelling

- Source potential, thermal history and migration modelling in 1, 2 & 3D
- Trinity™ software in house, experienced with PetroMod™ /BasinMod™

Legacy data

A key area of expertise. APT have many years of experience. Vintage data, from disparate sources can be interpreted and synthesised to deliver value from information that may have been overlooked by the non specialist.