# GAS PROCESSING

OSL's reputation has been built on the high level of expertise demonstrated by its highly skilled team of engineers, consultants and project managers.

Our achievements in delivering conceptual studies, feasibility studies, front end design, detailed engineering and safety and risk assessment studies have helped OSL to become one of the fastest growing companies of its kind in the United Kingdom.

In the gas processing sector, our knowledge and experience have been key factors in providing our client with a successful outcome, sometimes in testing and very time sensitive circumstances.

Here are just some of the areas in which we have worked in recent times:

- Gas and liquids separation and produced water disposal schemes (including environmental schemes)
- Design of two and three-phase separators
- LPG fractionation, drying, pressurisation, refrigerated storage, compression, cooling, pumping and off-loading
- Process simulation models using CHEMCAD and HYSIS to complete the specification of a major gas processing system (three-phase separators, knock-out vessels, heat exchangers) including pipeline, high and low pressure vent headers
- Sand handling and disposal schemes (As gas fields approach cessation of production, sand entrainment in the gas becomes more of a problem. OSL has developed methods of separating the sand and disposing of it in an environmentally friendly manner)
- Gas dehydration and dew point controls, using Best Available Technologies
- Assessment of $H_2S$ and $C0_2$ removal technologies
- Flare control schemes
- Pipeline modelling and control
- Hydrocarbon and gas allocation schemes
- Pipe slugging
- Mass and energy balances
- Pipelines hydraulic studies using PIPESIM simulation software