



## Unconventional Production

Maxoil's extensive knowledge and experience of Unconventional and Shale oilfields enables application of a rigorous and disciplined approach for optimising hydrocarbon production.

### Objective:

Producing hydrocarbons from unconventional reservoirs can include significant risk. Minimizing risk requires the development of production strategies based on detailed in-depth understanding of the characteristics of the reservoir, fluids, production systems and chemical treatment processes.

### Methods:

Maxoil's integrated multidiscipline engineering and project execution capability is achieved through a collaborative blend of production chemistry and technical expertise. We apply a holistic approach utilizing operational understanding and specialist diagnostic methods to pinpoint problem areas. These are then eliminated using imaginative, "out-of-the-box" thinking and practical experience.

Implementation of a sound and effective chemical management program is another critical component of the Maxoil process: data obtained from laboratory analysis, field trials and field service reports are used to develop a metric-driven chemical management program. This uses performance frameworks, visualisation, and modeling tools to enable operators to perform strategic decisions on multiple-wells chemical injection strategies. This approach optimizes chemical dosing by matching the rates to individual well requirements, thus achieving significant reduction in operational costs.

### Applicability:

Maxoil's expertise covers:

- Production Chemistry Strategy & Auditing
- Contaminants Management (H<sub>2</sub>S, Mercury, Paraffin, Microbials, etc.)
- Produced Water Management
- Gas Treatment & Transportation
- Flow Assurance
- System Design
- Equipment Specification and Selection
- Debottlenecking
- Upgrade and Retrofit
- Legislative & Regulatory Requirements

Maxoil's capability in shale covers new and existing developments including multiple wells, composition uncertainties and scarce resource conditions. Mature asset troubleshooting experience enables valuable insight for design optimization of new field developments.

### Benefits:

Our independent and objective evaluations provide the operator with the ability to implement strategies that are designed for the specific production characteristics of the location. Utilizing these methods of managing the chemical program through a comprehensive, rigorous and disciplined approach results in an average reduction in chemical costs of 30%.



### Unconventional Production

Operations Assurance

Flow Assurance

Separation Systems

Produced Water Management

Sands & Solids Management

Process & Production Optimization

Subsea Production Realization

Gas Treatment & Transport

Chemical Treatment & Management

Contaminants Management

Operations Performance Strategy

Systems Awareness Technical Training