

Enhanced Oil Recovery Environmental Impact and Control

EOR methods

·Miscible gas/WAG ·Low saline flooding Surfactants •CO₂ injection •More advanced wells and well control **Immobile** Mobile •Better use of IO, oil - 47 % oil - 53 % 4D seismic etc Water diversion Prolonged lifetime Polymers ·WAG/CO2 •Gas diversion

IOR/Production optimization





Analyses & Monitoring

- · Sampling, sample preparation
- Analyses of chemicals and byproducts
- · Field analyses
- · Online monitoring
- Performance control

Chemical Fate and Effect

- Intrinsic properties of chemicals based on chemical structure and literature data
- · Ecotoxicological testing
- Biodegradation (aerobic and anaerobic)
- Bioaccumulation potential
- Environmental fate and effect studies

Environmental Impact

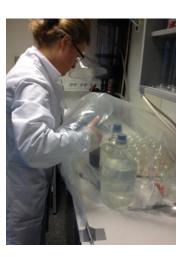
- Documentation of environmental performance
- Whole Effluent Toxicity (WET) and Assessment (WEA)
- EIF and chemical impact assessment

Produced Water Treatment

- Design criteria & discharge permits
- Independent technology assessment
- · Feasibility & concept studies
- Best Available Technology (BAT)
- Laboratory and pilot scale studies
- Technology qualification & commissioning
- Physical, chemical & biological processes

Reservoir & process equipment

- Reservoir souring and mitigation
- Microbial influenced corrosion (MIC)
- · Biofouling & control



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