

Oilfield Reservoir Souring

Outline of a One-Day Course on the Causes, Consequences and Control of Reservoir Souring

- 1) Introduction to Reservoir Souring
- 2) Geological and Geochemical Souring Mechanisms
 - Geological Mechanisms
 - Geochemical Mechanisms
- 3) Biogenic Souring
 - What Are SRB
 - Colonisation by SRB
 - Biogenic Sour Gas production or not
- 4) Effects of Reservoir Conditions
 - Temperature and Pressure
 - Water Injection
 - Viability Shell Theory
- 5) Prediction of Souring
 - Partitioning of H₂S in Produced Fluids
 - Simulation and Modelling
 - Prediction of Souring in the Field
- 6) Souring Control Methodologies
 - Measurement Technologies for H₂S in Produced Fluids
 - Microbiological Monitoring
 - Treatment of Drilling Fluids and Injection Water
 - Scavenging