“FRIGG Gruppen”

SS – EOR Feasibility

Why EOR SS?

- Business Drivers?
  - Lower RF means higher remaining potential
  - EOR to mitigate high cost of drilling new wells
  - EOR technology may be necessary to make a SS development economically feasible
  - Part of an area solution
- Why lower RF for SS
  - Lower well density
  - Modification cost
  - Reservoir management availability
  - Lower production/injection regularity
- Aob.

Current status; Challenges

- SS solutions in general
  - SS production currently exceeding platform production
  - Simple functionality, comingling, accessibility to wells, perforations
  - Data acquisition and monitoring less frequent and costly
  - Dependant on being a part of a larger EOR deployment
- Additional challenges with EOR – Plug – in
  - Water injection necessary
  - Small fields marginal economy, focus on cost
  - No currently EOR plug – in available for dry wellheads yet
  - Lack of EOR competcies in SS environments
  - Existing well stock incompatible with EOR requirements
- Aob

Vision for future SS developments plug and play EOR

- Is EOR plug and play possible?
  - Need to define EOR plug and play design basis (industry standard)
- How to increase RF for SS fields – RF vision
  - Increase well density
  - Cheaper wells
  - Improved reservoir monitoring/management
- JIP projects
  - Necessary! Integration challenge; Sub surface – Surface – Service providers