Experience transfer and results of PP&A campaign

PP&A STATFJORD A
Background

P&A strategy:

- Group 1: Wells that do not have any impact on the production (mainly old injectors).
- Group 2: Wells that can have an effect on the production; as-is producers (old producers with no gas lift and no sand screens that give no or little production).
- Group 3: Statfjord Late Life wells, wells that will continue to produce until CoP.

Operations:

- Phase 0: Securing the well
- Phase 1: Plugging the reservoir and Rogaland Gp
- Phase 2: Surface Plug
Status

• 12 wells plugged back as a part of phase#1
  • Set barrier against reservoir and Rogaland Gp.
• 6 wells plugged back as a part of phase#2
  • Pulled 13 3/8” casing – established open hole to surface barrier plug in 20” casing
**Key Learnings**

**PLANNING**

- Time schedule and strategy for PP&A campaign focusing on simplification
- Batch PP&A campaign
- High focus on detailed planning
- Qualified creeping formation as barrier
- Placing both barrier plugs in the same casing
- Well sequence
- Structured stop – re-think criteria
- Standardized equipment

**OPERATIONS**

- Repeatability - Synergy-effect
- Parallel activities
- Perform WL logging offline
- Taking out the potential on “flat spots”
- Optimized operational sequences
- Fluid
- Downhole power tool
- Focus on experience transfer to handle variations in crews – AAR
- Standardized cement plugs / equipment
Delivery

6 wells PP&A - 2012-2014

51% time / 47% cost

8 wells PP&A – 2015
**PHASE#2:**

Average time: 3.45 days
42% ahead of budget cost
## Technology

### Used on PP&A campaign
- Tested various types of cutters / spears
- HydraHymera
- Downhole power-tool
- Perf & Wash
- Milling
- Pumping cement through XMT

### The future
- Offline work
- Batch operations
- Focus on conventional technology
- Reverse milling