

## Agenda

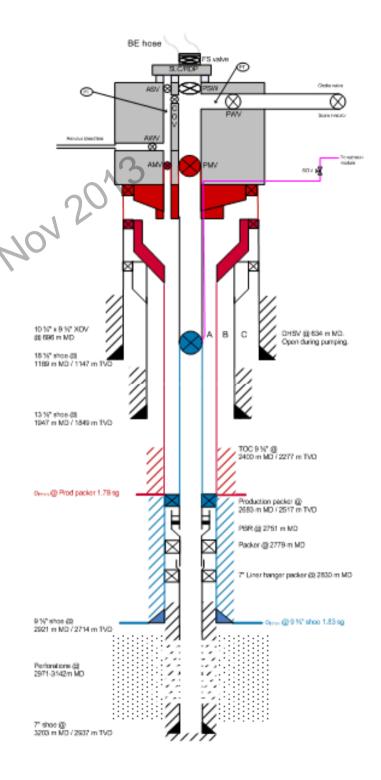
- Well history and integrity
- Well completion
- Arrival status
- Hook-up from well to vessel
- Operations
- Organization during operation
- Injection history
- Operational experiences and learning's

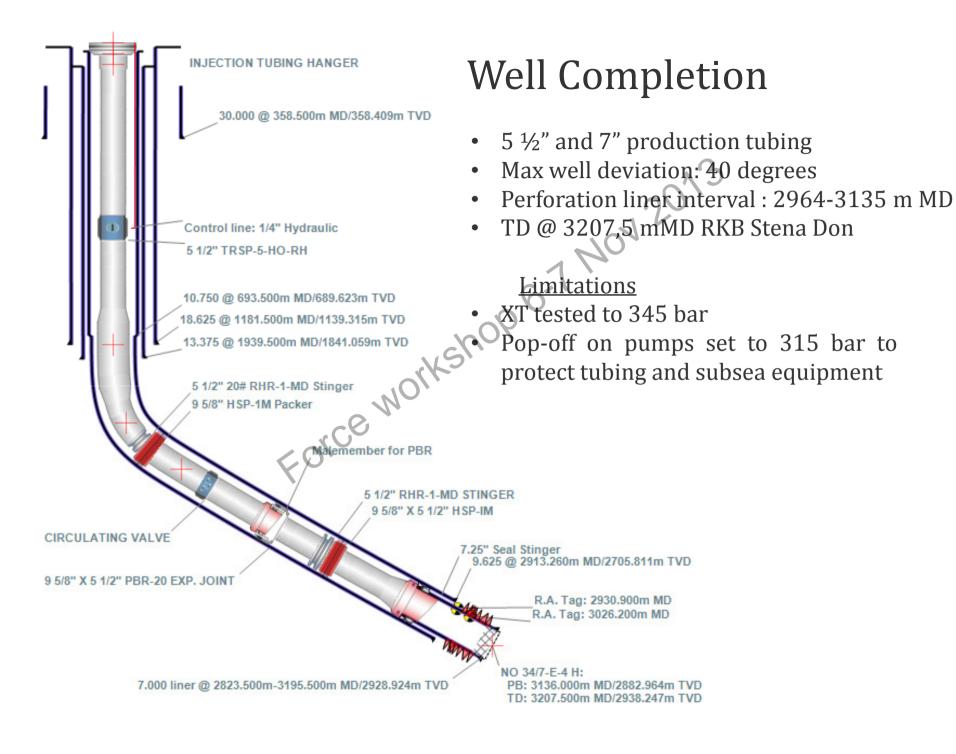




# E-04 H Well history and integrity

- Well 34/7-E-04 H is a water injector on the Vigdis E-frame
- Pressure support to the Snorre well P-15
- Drilled and completed with 7" perforated liner by Bideford Dolphin in 2002/2003
- Re-completed by Stena Don in May 2005 due to tubing leakage





### E-04 H Arrival status

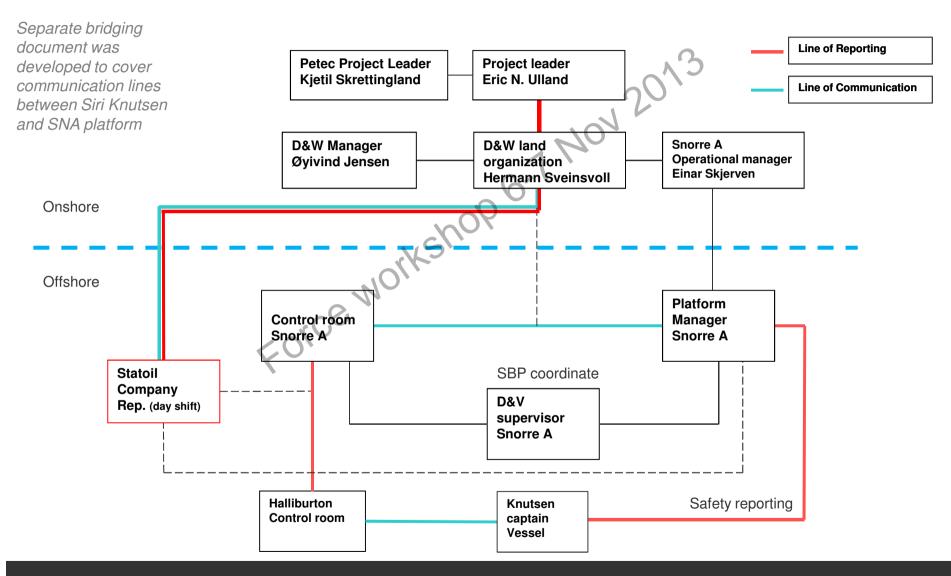
- Siri Knutsen arrival status:
  - Injection stopped
  - Tree cap pulled (IMR)
  - RDP/FSV installed (IMR)
  - 3" BE hose connected to well, tested and laid down on seabed (IMR)
  - A pick-up line kept flowting and visible at surface

# Operations

Step#	Operations
1	Pick up and connect riser configuration (BE hose, E-line, H-line)
2	Leak test riser configuration
4	Pump KCl preflush (1.5 months)
5	Pump Silicate solution (3 months)
6	Pump KCl postflush (14 days)
7	Shut in well
8	Disconnect riser configuration (BE hose, E-line, H-line)

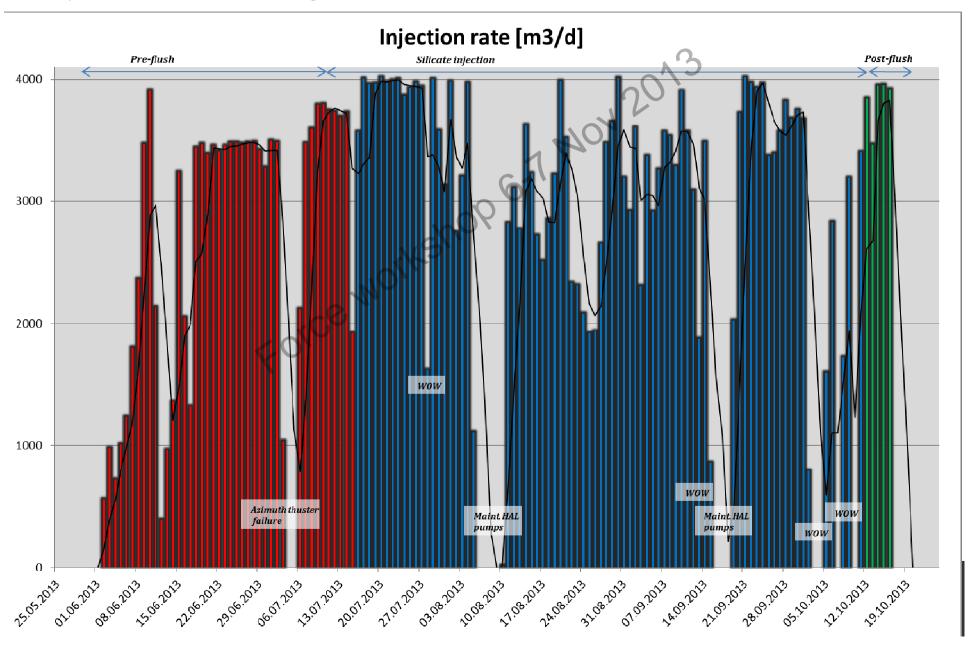


### Operational organization - Pumping operation





### Injection history



### Experience and learning's

- Pumping units
  - Sufficient pumping capacity
  - Increased robustness needed
- RO- units
- 45hop 6-1 Nov 2013 Not sufficient production capacity.
  - Design optimization needed.



# There's never been a better time for good ideas

Presentation title

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