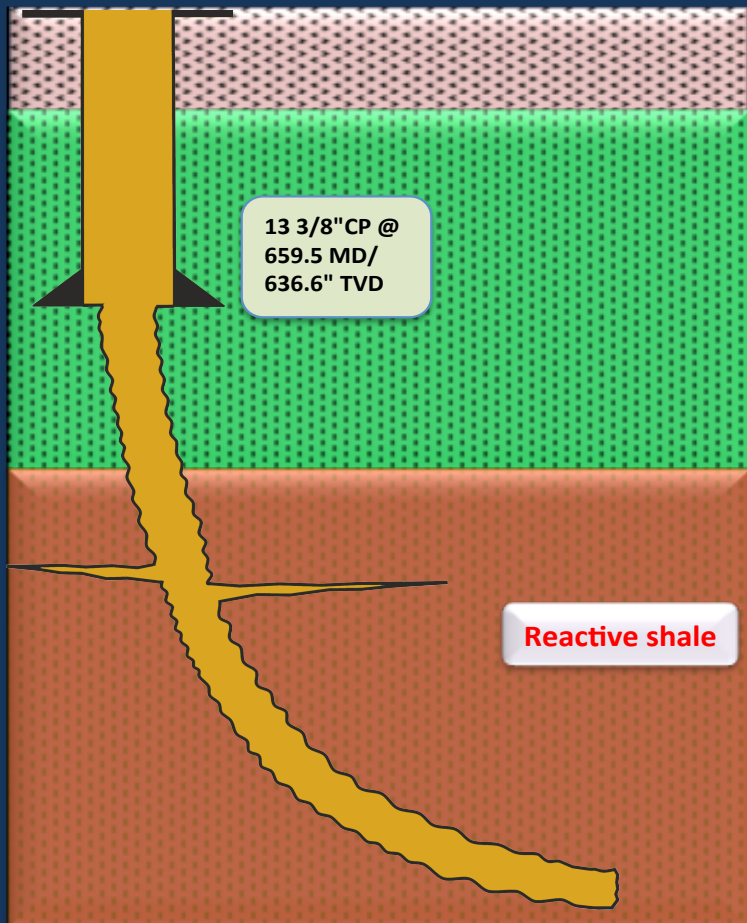


FRACSEAL & STOPLOSS TACKLE DIFFICULT 8½" SECTION - Offshore Norge



The Challenge

Wisting has a **water sensitive shale** in the 8½" section **prone for mud losses, hole instability**, and need to be drilled using oil based mud, resulted in a costly drilling operation. **A highly deviated and horizontal sections in this field become even more difficult to drill.**

The Action

After the 9-5/8" casing was set at 947,5 m, **a horizontal 8½" hole** was drilled. From 955 m the **active mud was treated with FRACSEAL**. Had smooth drilling and static hole until 1060 m, then a static loss (S/L) at 6 m³/hr (±38 bph) was observed. While maintaining **FRACSEAL 6-8 ppb** in the system drilling was continued penetrating further loss interval. **At 1120 m had losses at 12 m³/hr (76 bph), 6 m³ (±38 bbl) STOPLOSS pill @ 37 ppb** was pumped and followed by a hesitation squeeze. The incorporation of **FRACSEAL** in the active OBM was through direct additions or sweeping pills containing 15-20 ppb FRACSEAL.

The Result

This section was drilled with minimized problems. Maintaining **FRACSEAL** in the active system gives tremendous effect to drilling efficiency. **Hole remained relatively stable throughout horizontal drilling operation.** It becomes **product and treatment of choice** for drilling the same section in this field, especially for high-angle and horizontal trajectory.