



/ Expro Excellence TCP

Expro develop innovative perforating system for deepwater, high pressure, subsea wells



Objectives

- A major international operator in the Gulf of Mexico with perforating needs had a minimum inflow area requirement of up to 10in² per foot, however standard gun systems only enabled 39gram 15 shots per foot creating an inflow area up to a maximum of 8in² per foot

Expro Excellence

- Responding to the ITT, Expro modelled the customer's requirements and provided a technical proposal to meet the required inflow area to achieve expected production rates
- Expro were awarded the contract and delivered a new charge and gun system: a prototype of this new system was tested in accordance with API RP 19B with a concrete test piece to simulate the reservoir and a section of 10¹/₈" 79ppf SM-125 casing; a second test was also performed on 9⁵/₈" 47ppf L-80 casing for comparison

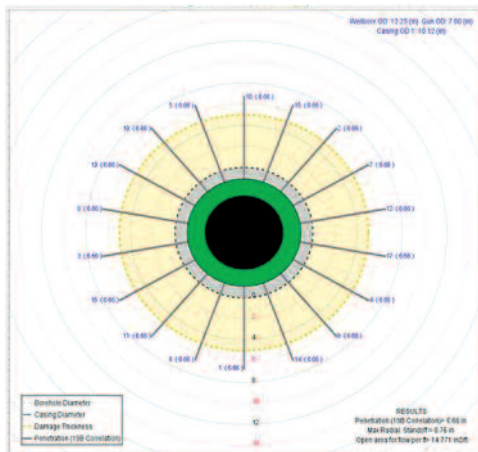
- The test in the 10¹/₈" casing yielded an inflow area of approx. 14.7in² per foot

Value to client

- The gun system deployment was successful – the customer was able to draw the well down and achieve expected production rates
- Upon firing, the slight overbalance left in the drill string dropped and the well went static – after monitoring for one hour the well began taking fluid at approx. 10 bbl/hr – confirming the perforations were active

Deepwater wellbore conditions (water, depth, total drilled depths, bottomhole pressures and temperatures) and performance requirements of downhole equipment (pressure ratings) are dynamic and constantly present new challenges. Wells previously completed with 9⁵/₈" casing now require heavier wall 10¹/₈" in order to maintain well integrity.

Expro's 7" super big hole gun system has since established a successful track record in the Gulf of Mexico and has become the system of choice for gravel pack operations.



Contact

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