



Weatherford®



REAL RESULTS

Failed Subsea Well Production Recovered Using Stratacoil™ Through-Tubing Screens

Objectives

- Recover the remaining oil and gas reserves of a well that had failed after 14 months with massive sand production. Screen gap velocity likely exceeded 3 ft (1 m)/sec.
- Minimize recompletion cost, and maximize production string size.
- Install a barefoot completion to directly retain very fine, non-uniform sand.

Results

- Weatherford cleaned out 13,000 ft (3,962 m) of sand and ran its Stratapac® 125-micron filter inside the failed screen. No gravel pack was used in this barefoot completion.
- Since January 2003, the well production has been 3,000 BOPD and 4 MMSCF of gas; water content is now less than 2 percent.
- Now, only trace fines are produced, and screen gap velocity is about 0.3 ft/sec.

Value to Client

- Over a two-year period, the well has produced 1.44 million bbl of oil and 2.0 BCF of gas, resulting in an estimated US\$53 million revenue in return for an \$8 million workover cost.
- Weatherford's erosion calculations indicate low erosion risk for this completion at these production rates.
- The effective direct sand retention of the *Stratapac* filter, the high flow area, and the low OD:ID ratio were keys to this success.



Client
Major Operator

Location
Troika field, Gulf of Mexico

Well
High-angle subsea well, cased-hole completion using 20x40 gravel pack

Casing
5-1/2 in. (139.7 mm)

Hole Angle
40.5°

Depth
TMD: 19,000 ft (5,791 m)

Initial Production
10,000 BOPD and 12 MMSCF water, increasing from 0 to 10%

Products/Services

- *Stratacoil* through-tubing screens
- *Stratapac* filter

For more information, see SPE paper 97291.

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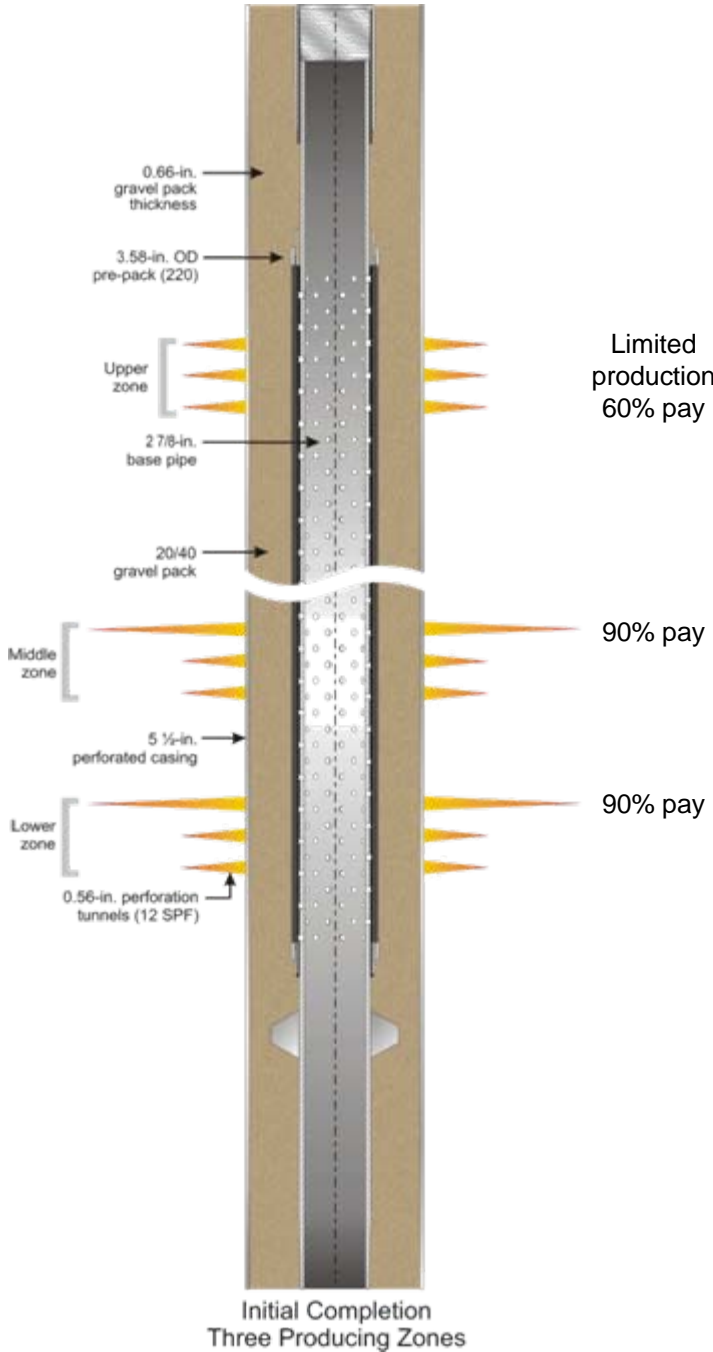
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Initial GoM Cased-Hole Gravel Pack



Repaired Through-Tubing, Cased-Hole Barefoot Completion

