Measure and Compare

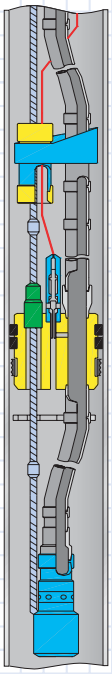
Baker Hughes delivers Best-in-Class results

INTEGRATED ESP/PACKER SYSTEM REPLACES GAS LIFT; $6.7M INCREMENTAL INVESTMENT PAYS BACK WITHIN 120 DAYS*

- **Client:** BP
- **Location:** Mississippi Canyon, Gulf of Mexico
- **Problem:**
  - Gas lift constrained well production potential due to increasing BHP.
  - Deepwater, high-angle well bore, with high GOR.
  - Re-complete well with no loss of production.
  - Deliver complete system, top side and down hole within 90 days.
- **Solution:**
  - Install integrated ESP and packer system from Centrilift and Baker Oil Tools
  - Centrilift supplied a Class I, Division I Top Side Motor Control Room equipped with variable speed controller.
  - Centrilift provided an integrated down hole monitoring system to control high-horsepower, high volume pump equipment.
  - Centrilift provided project management oversight.
  - BOT provided Twinseal™ ESP packer with integral cable severing tools.
  - BOT designed new "VR" annular vent safety valve.
- **Results:**
  - First ESP deployed in deepwater GOM for primary production.
  - BHI's "Best in Class" Technology increased oil production 163% to 4900 BOPD, and gas production 84% to 4.6 Mcfd.
  - BOT and Centrilift achieved "flawless execution" during installation.
  - Baker Hughes delivered ahead of schedule, saved $1 million in rig cost.
  - Incremental $6.7 million investment achieved payback within 120 days.*

*Based on $20/barrel oil price.

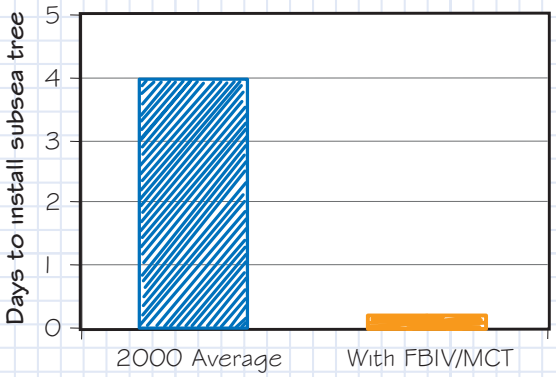
Integrated ESP/Packer System



OCRE™ VALVE AND MULTI-CYCLE TOOL REDUCE SUBSEA COMPLETION COSTS BY 20%

- **Location:** Gulf of Mexico
- **Problem:**
  - Reduce time and cost of subsea completions.
  - Eliminate need for drilling rig with completion riser during subsea tree installation.
- **Solution:**
  - Baker Oil Tools' OCRE™ Full Bore Isolation Valve and Multi Cycle Tool provide a barrier to well flow when crews remove the BOP stack and marine riser from the well.
- **Results:**
  - Subsea tree installation was removed from rig's critical path.
  - Saved ~25% of the completion budget.
  - Deepwater wells were completed in less than 60% of expected time and 20% below budget.

OCRE Valve Time Savings During Subsea Tree Installation



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