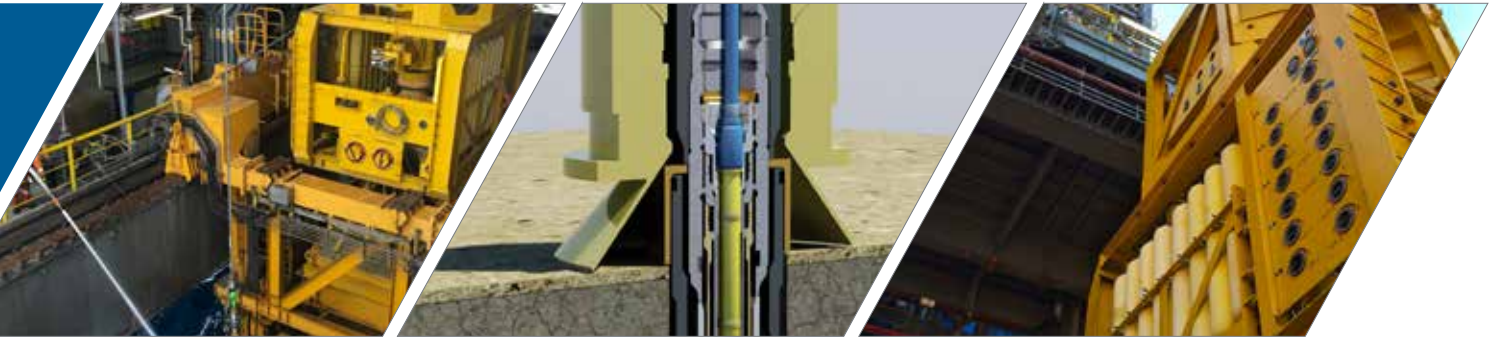




## DeepRange and 7Series P&A System



**Spotlight**  
on new  
**TECHNOLOGY**

**2017  
Award  
Winner**



DeepRange P&A Tool

### Reduce P&A Liability

Combining the Wild Well DeepRange and 7Series creates an unparalleled plug and abandonment (P&A) system that delivers a highly cost-effective, regulatory-approved solution in a rigless, riserless package.

Requiring only a multiservice vessel for deployment, our P&A system offers a proven alternative to conventional, rig-based operations, delivering enhanced performance and a savings of approximately 50% compared to conventional P&A operations.

### Rapid Mobilization, Reliable Operation

For more than 40 years, Wild Well has supplied operators with industry-leading service whenever and wherever it's needed.

The DeepRange and 7Series continue that dedication to quality operations by offering subsea P&A for a wide range of applications at virtually any offshore, deepwater location.

### Features and Benefits

- Saves operators 50%
- Rigless, riserless operation
- Water depths up to 10,000 ft
- Field-proven, multiannular isolation capabilities
- Does not require casing to be pulled
- Full BSEE APM approval
- Minimally invasive procedure that maintains wellbore integrity
- Durable ControlSEAL resin compound for lasting plug performance

# FEATURED CASE STUDY

## P&A of 9 GOM gas wells under budget, well within schedule

WELL FEATURES
Type: Gas
Tree Type: Horizontal
Water Depth: 7,000 ft
Vessel: ENSCO 8505
Special Tooling: 7Series, DeepRange P&A Tool, Well Intervention Control System (WICS), Concentric Circulating System
Wireline: 0.125-in. Slickline, 3/16-in. Braided Line, 7/32-in. Electric Line, 9/16-in. Electric Line
Producing Zone Depth: 12,000 – 14,000 ft MD
MASP: 6,000 psi

### Challenges

- Sub-ambient production zones
- Potential hydrate formations, causing additional complexities
- B, C and D annular isolation required
- Conventional operations call for cutting and pulling casing using a riser

### Summary of Operations

- Pulled crown plugs with slickline
- Performed gauge ring runs with slickline
- Set and retrieved subsea tree isolation sleeves with slickline
- Perforated production tubing and production casing with electric line
- Severed tubing with electric line

### Achievements

- Unique use of Concentric Circulation System eliminated the need for coiled tubing as flow lines
- Circulated cement plugs in B, C and D annuli
- Completed upper abandonments per BSEE regulations
- Performed entire operation well under budget
- Operation completed well in advance of planned schedule
- Established DeepRange P&A system as a revolutionary deepwater, riserless annular isolation tool

### Covering Every Step of Your Subsea P&A Operation

From pre-operational engineering and planning through the final setting of the cast iron bridge plug, Wild Well carefully guides the P&A process with a wholly in-house approach, which includes subsea well specialists.

The Wild Well Advanced Engineering group offers computational fluid dynamic, structural, and thermal analyses to identify problem areas of the operation before they occur.

Use of the Wild Well ControlSEAL resin compound provides a lasting binary plug solution that delivers a 400% increase in shear bond when compared to conventional cement.

### Hardware Highlights

- Working pressure up to 10,000 psi
- Dual-redundant control systems
- Redundancy in the environmental and well barriers
- 30-second EQD with dual-disconnect points on all connections
- Shear seal ram can shear almost any toolstring, including 3 1/2-in., 135,000 psi drillpipe
- 7 3/8-in. bore handles the largest crown plug
- Deployment requires only a multiservice vessel
- Unique use of Concentric Circulation System eliminates need for coiled tubing as flow lines
- ROV-driven technology



7Series Intervention System