



**BLACKHAWK**  
SPECIALTY TOOLS  
A division of Frank's International

# Value vision

## BLACKHAWK'S COMBINED SERVICES IMPROVE OPERATOR'S WELL INTEGRITY AND REDUCE COST

### PROBLEM

After running and performing a primary cement job on their 9-7/8" liner, an operator was not able to achieve a successful negative test.

The operator needed a cost-effective, reliable solution to successfully perform a perforation squeeze, liner top squeeze, and negative test.

### SOLUTION

- Blackhawk's HD Packer was utilized to isolate the wellbore, squeeze the perforations and liner top, and the negative test was performed with a secondary HD Packer.
- Blackhawk's Wireless Cement Head was utilized to circulate the wellbore, set the HD Packer, and launch the top and bottom dart catcher darts wirelessly.
- Blackhawk's Multiple Dart Catcher allowed the operator to catch the (2) darts. It gave the operator a mechanical barrier between the cement and mud and an accurate indication to determine correct displacement on their cement squeeze.
- The Blackhawk Project Manager was available to provide services for all of the Blackhawk products out on location, saving the operator money by only deploying one service hand.

### VALUE TO CUSTOMER

- Operator was able to successfully squeeze shoe and liner top using Blackhawk's multiple services.
- Eliminated extra trips in the riding belt by utilizing the Wireless Cement Head, saving rig time and improving safety.
- Blackhawk's HD Packer utilized a built-in one-piece internal bypass system allowing for simplified operations and quicker delivery times.
- Operator was able to displace the cement at 8BPM through the HD Packer internal bypass and Multiple Dart Catcher with minimum circulation pressure; saving rig time and maximizing wellbore integrity.
- Simplified operations and improved cost efficiency by providing one Project Manager to service and run the cement head, dart catcher, and packer.

#### CUSTOMER

GoM Deepwater Operator

#### JOB TYPE

Deepwater GoM,  
~6,908 water depth

#### LINER SIZE

9-7/8"

#### DEPTH & ICLINATION

~19,087' MD, 40°

#### PRODUCTS/SERVICES

Wireless Cement Head,  
Multiple Dart Catcher, HD  
Packer