

# Ball-Retaining Wireline Adapter Kit

## THE BALL-IN-PLACE METHOD TO HELP REDUCE NPT

### OVERVIEW

Running the ball in-place during frac plug pump-down helps provide significant time and water efficiencies at every stage, resulting in substantial savings for the operator. However, once the frac plug is set, a misfire of the guns would result in the operator being unable to pump down another set of perforating guns without intervention. The Halliburton Ball-Retaining Adapter Kit (BRAK) has the ability to retain the frac ball throughout the explosive force required to set the frac plug. This design allows the ball to return to surface and provides an open flow path through the plug should wireline equipment malfunction.

### FEATURES AND BENEFITS

- » Helps reduce non-productive time (NPT) caused by gun misfire with the ball in-place
- » Pump-down efficiency and rate limitations unaffected
- » Option to release the ball any time after setting the plug with pump rate
- » Improve reliability and consistency
- » Able to re-capture the ball with sufficient flow back rate
- » Able to retrieve the ball to surface

### AVAILABILITY BY FRAC FLUG

Availability	Pump Rate, BPM	
	To Release	To Retrieve
Setting Tool		
5 1/2-in. Fas Drill® Ultra Plug	9 to 11	7 to 8
5-in. Fas Drill® Ultra Plug	8 to 10	6 to 8
4 1/2-in. Fas Drill® Ultra Plug	8 to 10	6 to 8
5 1/2-in. Obsidian® Prime Plug	9 to 11	7 to 8
5-in. Obsidian® Prime Plug	8 to 10	6 to 8
4 1/2-in. Obsidian® Prime Plug	8 to 10	6 to 8

*BRAK is compatible with third party setting tools*

For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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