

# AirGlide™ Floatation Sub

## OVERCOME EXCESSIVE DRAG FORCES TO RUN CASING TO DEPTH

### FEATURES

- » Innovative glass disk disintegrates into fine, sand-like particles upon activation
- » Custom activation pressures can be tailored to wellbore depth and pressures

### BENEFITS

- » Eliminates the need for a debris barrier
- » Zero risk of plugoff or damage to equipment
- » No debris left after activation for fullbore access
- » Capable of handling differential pressures up to 12,500 psi

### OVERVIEW

Running casing to depth in highly deviated or horizontal, extended reach wellbores continues to pose a challenge to operators looking to maximize wellbore production. The excessive drag force between the casing and the formation in these wells is difficult to overcome. For larger casing, the drag forces often exceed the available hook weight of the casing and for smaller casing they exceed the buckling capacity. In both cases, the result is an inability to run casing to the desired setting depth.

To extend the reach in long lateral wells and reduce the casing/formation drag, operators utilize a floatation sub to float the casing through the horizontal section. Traditional floatation

subs require a debris barrier to catch the ceramic shards left after the tool ruptures and prevent plugoff or damage to float equipment that can lead to nonproductive time (NPT).

The AirGlide™ floatation sub significantly lowers drag and frictional forces to allow casing to get to bottom faster. Because the AirGlide floatation sub utilizes an innovative glass disk rather than ceramic parts, there is zero risk of plugoff or damage to float equipment and the need for a debris catcher is eliminated.

### IMPROVE CASING RUNNING CAPABILITIES

The AirGlide floatation sub operates when placed in the heel of the wellbore. An innovative glass disk acts as a barrier to fluids in the well to trap an atmospheric chamber in the horizontal section of the casing from the shoe track to the casing floatation sub. This trapped air creates a buoyant chamber that can significantly reduce the casing weight and allows the casing string to lift away from the wellbore, thus reducing drag between the casing and the formation to provide improved casing running capabilities.

### FULLBORE ACCESS WITH ZERO DEBRIS

Once targeted depth is reached, applied pressure activates the AirGlide floatation sub. The glass disk handles differential pressures up to 12,500 psi to withstand shocks during handling and

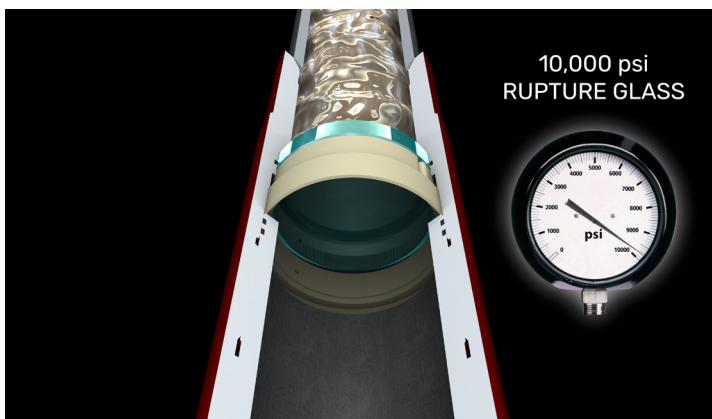


well operations but disintegrates into fine, sand-like particles upon activation. These sand-like fragments are easily pumped through float equipment with no risk of plugoff or damage to equipment, thus leaving a fullbore inner diameter (ID) casing for cementing and completions operations.

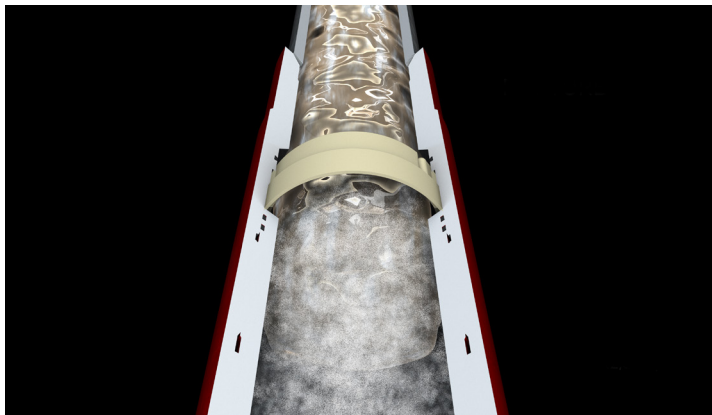
### OVERCOME DRAG FORCES TO REACH PLANNED DEPTH AND MAXIMIZE PRODUCTION

The AirGlide floatation sub allows operators to overcome excessive drag forces and reach planned depth to maximize production in highly deviated or horizontal, extended reach wellbores. Through use of an innovative glass disk, the AirGlide floatation sub can lift the casing string away from the wellbore to reduce drag between the casing and the formation to provide improved casing running capabilities and leave zero debris after actuation for a fullbore drillout.

The AirGlide™ floatation sub significantly lowers drag and frictional forces to allow casing to get to bottom faster. Its innovative design enables zero risk of plugoff or damage to float equipment and eliminates the need for a debris catcher.



Applied pressure activates the AirGlide floatation sub once targeted depth is reached.



The AirGlide floatation sub utilizes an innovative glass disk that disintegrates into fine, sand-like particles upon activation. Easily pumped through float equipment, the particles will not plugoff or damage equipment.

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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