WHIPSTOCK SIDE TRACKING SYSTEM

Designed as a one-trip system for sidetracking operations, the Cougar Drilling Solutions whipstock is an innovative product engineered to reduce the risk and cost of launching open hole sidetracks.

WORK MORE EFFICIENTLY

A hydraulically set, one-trip system helps to avoid the costly time and fees associated with mechanical bottom-hole designs. Our anchor and slip design enhances and increases wall contact, reducing the likelihood of slipping or rotating downhole while milling. Simple but sophisticated engineering allows for inexpensive transition between cement or conventional, and cased versus open hole applications.

HOW IT WORKS

The whipstock sidetracking system is comprised of four major components:

Running Tool
The running tool is used to isolate clean fluid in the tool assembly from the drilling fluid in the drill string.

Bi-Mill
The bi-mill is used to lower the whipstock assembly down the wellbore to the desired depth. Once the whipstock assembly is in place, the anchor can be set hydraulically, at which point the bi-mill can be sheared away from the whipstock assembly. This will allow milling operations to begin. After milling the window, the bi-mill can be tripped out of the wellbore and drilling operations can continue.

Shear Sub
The shear sub can be used to lower the whipstock assembly into the wellbore instead of the bi-mill. In doing this, a mud motor assembly can then be used to drill off the ramp and continue drilling operations.
Whipstock Assembly
- Deflection Ramp – The deflection ramp is designed to direct the drill string in the desired direction and kickoff at the designated depth. The deflection ramp also makes it possible to achieve a smooth transition from a vertical to a horizontal wellbore.
- Spacer Sub – The spacer sub is used to distance the anchor away from the window exit above. This will allow the anchor to stay secured in the undisturbed formation below the window exit.
- Anchor – The anchor is used to secure the upper assembly from any movement that might occur during drilling operations.

YOUR PARTNER IN PROBLEM SOLVING
At Cougar, our purpose is to work with you and your team to find creative ways of reducing the cost of drilling your wells. We do this by working in close collaboration with you to understand your specific drilling goals and to find effective ways of achieving them.

THERE WHEREVER YOU NEED US
At Cougar, we’re large enough to have a global presence but we’re also small enough to remain intimately focused on our clients. That means no matter where you are in the world, our international network of service centres will be on hand to assist wherever you need us — just like a reliable neighbour.

Contact a Cougar representative or email info@cougarDS.com to learn more about how we can help you gain better control of your directional drilling operations using our whipstock sidetracking system.

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