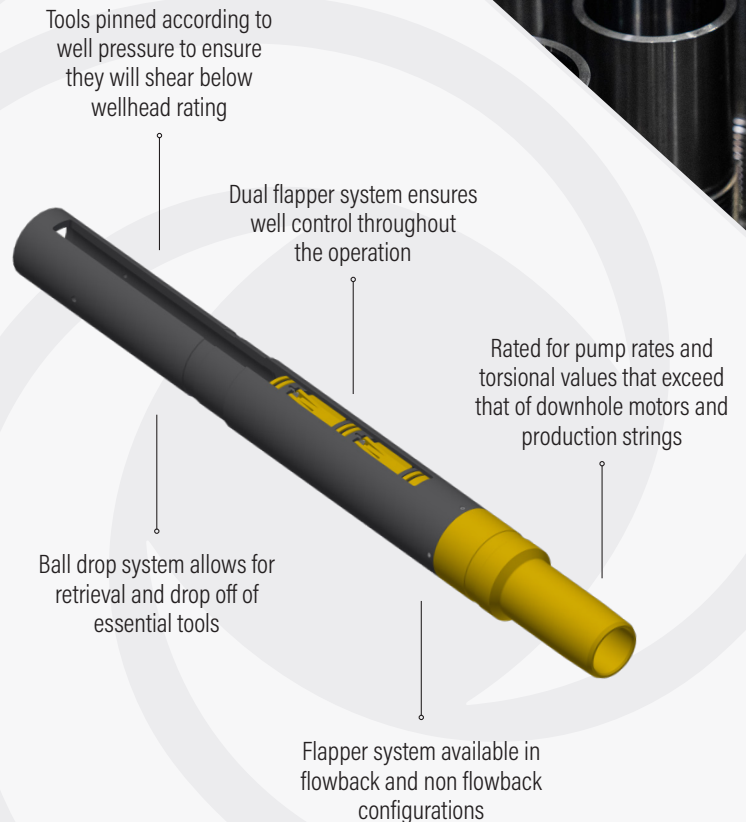


Drillout and land tubing in a single run

WOS Hybrid Drillout System

 Drives down cost and increases safety by reducing costly pipe trips



WOS Hybrid Drillout System US Patent #11,220,883

About This Product

The Workover Solutions Hybrid Drillout System allows for plug milling and the landing of production tubing to be performed in one trip using an integral BHA. During milling operations, the Hybrid System is rated for pump rates and torsional values that exceed that of downhole motors and production strings. The built-in dual flapper safety valves provide a well control barrier until the tubing is landed. Once tubing is landed a dissolvable ball is dropped to shift a mandrel through the safety valves, exposing a ported sub, which allows for production to start through the Hybrid tool. The ball eventually dissolves allowing for secondary production through the tool.

Benefits

- Maintains a pipe-heavy scenario throughout operation eliminating the cause for pipe ejection and injury
- Drives down cost and increases safety by reducing costly pipe trips
- Significantly reduces the handling of, and risks associated with, tubulars
- Eliminates the dangers associated with working over a live well
- Allows for wells to be put on production immediately

 Built-in dual flapper safety valves provide a well control barrier

WOS Hybrid Drillout System

WOS Hybrid System Specs - Flowback

Size	Max Working Pressure	Shear Pins (+/- 10%)	Nipple Description	RIH Overall Length	Flowback Overall Length
2-7/8" EUE	10,000 PSI	3-4 @1000 PSI	2.313" X-Nipple P110 EUE	33.38"	3.13"
2-7/8" PH6	10,000 PSI	6 @1000 PSI	2.188" R-Nipple P110 PH6 Box EUE Pin	33.63"	0.83"
2-3/8" EUE	10,000 PSI	3-4 @1000 PSI	1.875" X-Nipple P110 EUE	31.13"	26.04"
2-3/8" PH6	10,000 PSI	6 @1000 PSI	1.710" R-Nipple P110 PH6 Box EUP Pin	31.13"	5760 ft/lbs

All tools are pinned according to well PSI to ensure they will shear below wellhead ratings*

WOS Hybrid System Specs - Non-Flowback

Size	Max Working Pressure	Shear Pins (+/- 10%)	Max OD	Min OD	RIH Overall Length	Ball Size
2-7/8" EUE	10,000 PSI	4@332 PSI - 1328 over well PSI	3.875"	2.10"	36.7"	2.175"
2-3/8" EUE	10,000 PSI	4@295 PSI - 1180 over well PSI	3.75"	1.685"	36.7"	1.750"

All tools are pinned according to well PSI to ensure they will shear below wellhead ratings*

 Allows for wells to be put on production immediately

Features

- Single trip mill out and landing of the production tubing
- Dual flapper system ensures well control throughout the operation
- Incorporates a mixed string design of standard drill pipe and production tubing
- Ball drop system allow for retrieval and drop off of essential tools
- The Hybrid System can be run with or without a downhole motor for plug milling

System Includes

- WOS Drop Off Motor
- Drop Off Bit
- X and XN profiles
- WOS Hybrid System Check Valves
- Wireline Guide at desired end of tubing



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MADE IN THE U.S.A.

