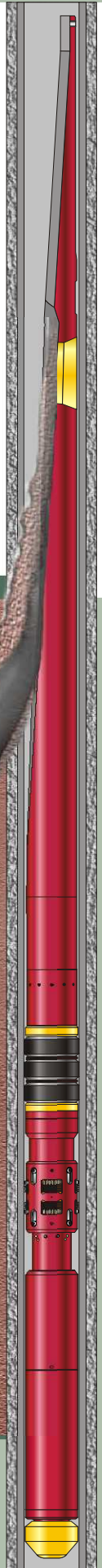




Weatherford®

QuickCut™ Casing Exit System

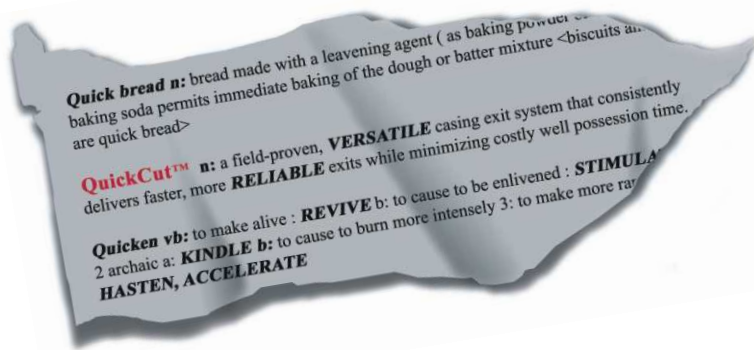
“A Cut Above”



QuickCut™ Casing Exit System

For years, Weatherford has been a leader in developing and installing quality casing exit systems around the world. True to tradition, we are now introducing *QuickCut*, which answers the industry's need for a casing exit system that improves milling performance and yields faster penetration rates in tough-to-drill formations all while maintaining gauge retention of the milling assembly. *Truly a cut above.*

QuickCut combines a single trip, full gauge milling system with a single angle concave that incorporates multiple anchor options. This versatility lets you design an exit that fits your well's requirements, whether your well plan calls for short radius or extended reach drilling. It also ensures that you can design a system that will generate a smooth transition from the parent wellbore into the lateral section.



Advantages of QuickCut™ Technology

Benefits

- **Reduced rig floor time** - system designed for safe, quick rig floor makeup.
- **Provides one trip efficiency** - orient, anchor, mill window and rathole in a single trip by design
- **Increased penetration rates** - aggressive lead mill geometry enhanced through insert placement

Features

- **Multiple anchor options** - mechanical bottom trip, hydraulic set or integral packers that provide zonal isolation
- **Unique lug technology** - patented integral lug that protects the whipstock during cut out and accurately guides the lead mill into the casing wall
- **Less rathole, more rathole** - complete your exit in hard formation with a minimum of 3 feet or increase your depth when sidetracking in medium formations.
- **High side, low side** - based on anchor selection, set your exit direction for the shortest possible route to hit your target, casing exits created independent of hole azimuth
- **Retrievability** - two consistently reliable options that have delivered the longest success rate in the industry

Anchor Selection - Options

WhipBack™ Mechanical Anchor

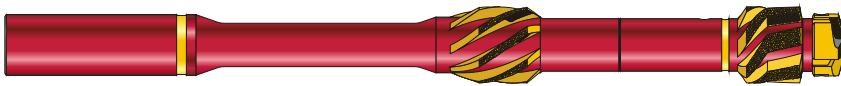
- Field-proven design that anchors independent of the bridge plug
- Anti-rotational slip provides superior anchoring during the milling and drilling operation
- Patented *WhipBack* design that allows for high or low side exits
- Consistent reliability with over 6,000 systems installed globally
- Longest running retrievable anchor in the industry
- Available in sizes for 4 1/2-in. casing through 13 3/8-in. casing
- Provides the platform for single trip or conventional casing exit systems



QuickCut™ Casing Exit System

Mill Assembly-Options / Concave Section-Options

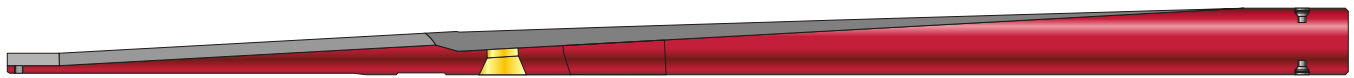
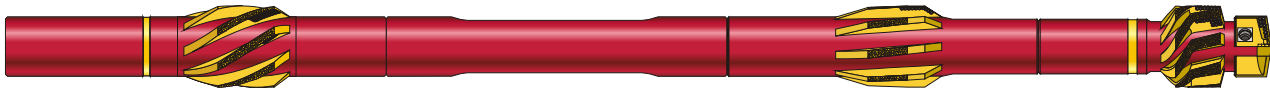
QuickCut™ Milling Assembly complete with 3° concave for quick departure



Flex Mill tool joint design can incorporate a UBHO sleeve or float body.



Shallow Angle QuickCut™ Milling Assembly complete with 2° concave for extended length windows



- **QuickSet™ Hydraulic Anchor**
- Eliminates the need for a false bottom
- Allows continuous and unlimited flow during LWD/MWD logging operation through the patented *AccuSet™* System
- Retrievable by design
- Contains emergency disconnect feature between concave and anchor if required during fishing operations
- Provides the platform for a single trip casing exit system



QuickPack™ Retrievable or Permanent Packer Anchor

- Provides complete isolation from lower zone
- Rated up to 5000 psi differential at 275°F
- Designed to pass through DLS of 15°/100ft
- Allows continuous and unlimited flow during LWD/MWD logging operation through the patented *AccuSet™* System
- Retrievable by design
- Contains emergency disconnect feature between concave and packer if required during retrieval operations
- Provides the platform for a single trip casing exit system



QuickCut™ Casing Exit System

QuickCut™ Real Results From Your Region

Location	US	Asia-Pacific	Mexico	Saudi Arabia	Abu Dhabi	Canada	UK
Setting Depth	11,971 ft	9,958 ft	15,694 ft	3,937 ft	6,538 ft	6,560 ft	9,600 ft
Orientation Method	Gyro	MWD	none	MWD	MWD	Gyro	MWD
Anchor Type	Mechanical	Mechanical	Mechanical	Hydraulic	Permanent Packer	Mechanical	Mechanical
Casing	7-in. x 29# N-80	7-in. x 32# L-80	7-in. x 35# TAC-140	9 5/8-in. x 40# L-80 13 3/8-in. x 61# L-80	9 5/8-in. x 43.50# L-80	7-in. x 26# L-80	9 5/8-in. x 47# L-80
Formation	Abrasive Sandstone	Sandstone	Shale	Shale	Shale	Limestone	Mudstone
Number of Trips	1	1	1	1	1	1	1
Milling Time	4 1/2 hrs	5 hrs	3 hrs	3 hrs	4 hrs	2 1/2 hrs	12 hrs **

** Included milling 100' open hole.



Weatherford®

515 Post Oak Blvd.
Suite 600
Houston, Texas 77027 USA
Tel: 713-693-4000
www.weatherford.com

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at www.weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford. Specifications are subject to change without notice.