



RED | BARON

CONVERGE

INTERCEPTION MILLING

**SPECIALIZED
MILLING
SOLUTIONS**

Red Baron Specialized Wellbore Access Mills

WIS' Converge Interception Mills are engineered specifically to allow wellbore access during the well interception applications.

These mills offer an effective solution for complex plug and abandonment (P&A) operations wellbore access has been compromised or lost, Carbon Capture, Utilization, and Storage (CCUS) well construction, and relief well drilling.

Converge Interception Mills to Regain Access to Wellbore

The family of Converge Interception Mills comprises of a series of custom configuration mills that are designed to (a) cut an initial slot in the intercepted casing, (b) elongate the slot to the desired length and (c) sever the casing if required.

During the life of a well, wellbore access can be lost due to several factors such as:

- Well integrity issues such as casing collapse, tubular restrictions due to scale build up, corrosion of casing or tubulars;
- Lost or stuck tools and equipment during drilling or fishing operation;
- Reservoir issues such as near- wellbore damage or unwanted fluid communication that can reduce productivity;
- Well control challenges that require the construction of a relief well.

Customized, Customer- Focused Wellbore Integrity Solutions

Headquartered in Houston, Texas, Wellbore Integrity Solutions was established by industry veterans with **extensive experience** in the wellbore integrity market space and global operating experience in oilfield services, manufacturing, and E&P. Through our strategy of focusing on wellbore integrity, we provide **product and service expertise** to our customers while working collaboratively to **develop solutions** that meet specific customer needs.



Wellbore Integrity Solutions is ready for all your **well integrity** requirements.

Converge Interception Mills

Specialized intervention solutions for complicated and challenging wells.

- Comprehensive milling solution to drill relief wells
- Regain access to mother bore when well access is compromised
- Perform complex P&A operations
- Reuse of mature wells for Carbon Capture, Utilization, and Storage (CCUS)

Slot Mill

The Slot Mill is designed to create the initial slot in the intercepted casing, its unique design ensures that the edge of the attack face contacts the casing wall first, providing stability while milling through the metal and creating a precise slot in the casing.



Elongation Mill

The Elongate Mill is designed to extend the casing slot previously created by the Slot Mill. It features the same concave face design as the Slot Mill, with a longer gauge outer diameter (OD) dressed in crushed carbide. Additionally, its unique coring-resistant face, combined with spiral watercourses, facilitates efficient swarf and fluid flow during milling operations.



Severance Mill

The Severance Mill is designed to sever the casing and mill a section in a single trip, serving as a preparatory step before section milling a target casing interval. It features three distinct sections:

- **Taper Section** – Guides the bottom hole assembly (BHA) into the previously milled slot.
- **Sever Section** – Applies the necessary lateral force to mill sever the casing.
- **Pilot Milling Section** – Mills a section of the target casing after severing.

This integrated design ensures efficient and precise casing severance prior to subsequent operations.





Converge Interception Mills Relief Well Applications

- Loss of wellbore Access
- Complex plug and abandonment (P&A) operations
- CCUS Well Construction
- Complex Well Conditions
- Regulatory Compliance



For more wellbore intervention information:
wellboreintegrity.com/redbaron



Wellbore Integrity
SOLUTIONS
wellboreintegrity.com

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**THOMAS
TOOLS**