

Safety Joint Sub

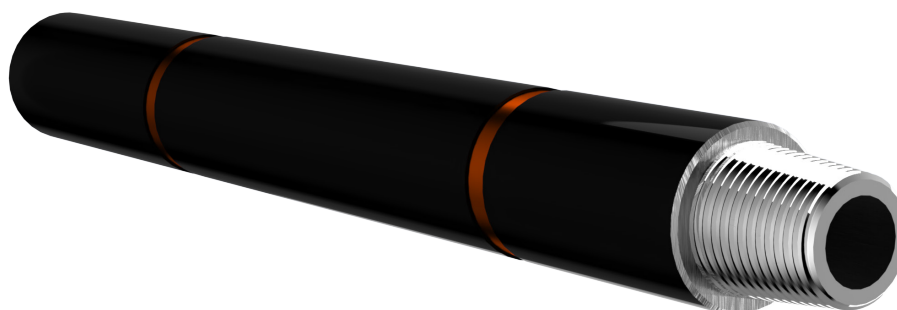
Remain in full control of stuck-pipe operations with deployment of Black Diamond’s Safety Joint Sub. The tool has been specifically designed to provide a simple yet effective back off point in the event of a stuck assembly allowing for quick and easy disengagement of the drill string. Featuring a sealed coarse thread, this simple and robust design disengages at much lower percentage of make-up torque with the application of slight tension and left hand torque at the tool. The thread can be effortlessly re-engaged with slight compression and right hand torque at the tool should the need arise. Take control with the assurance that the Safety Joint Sub provides – the safest and most-trusted stuck-pipe solution.

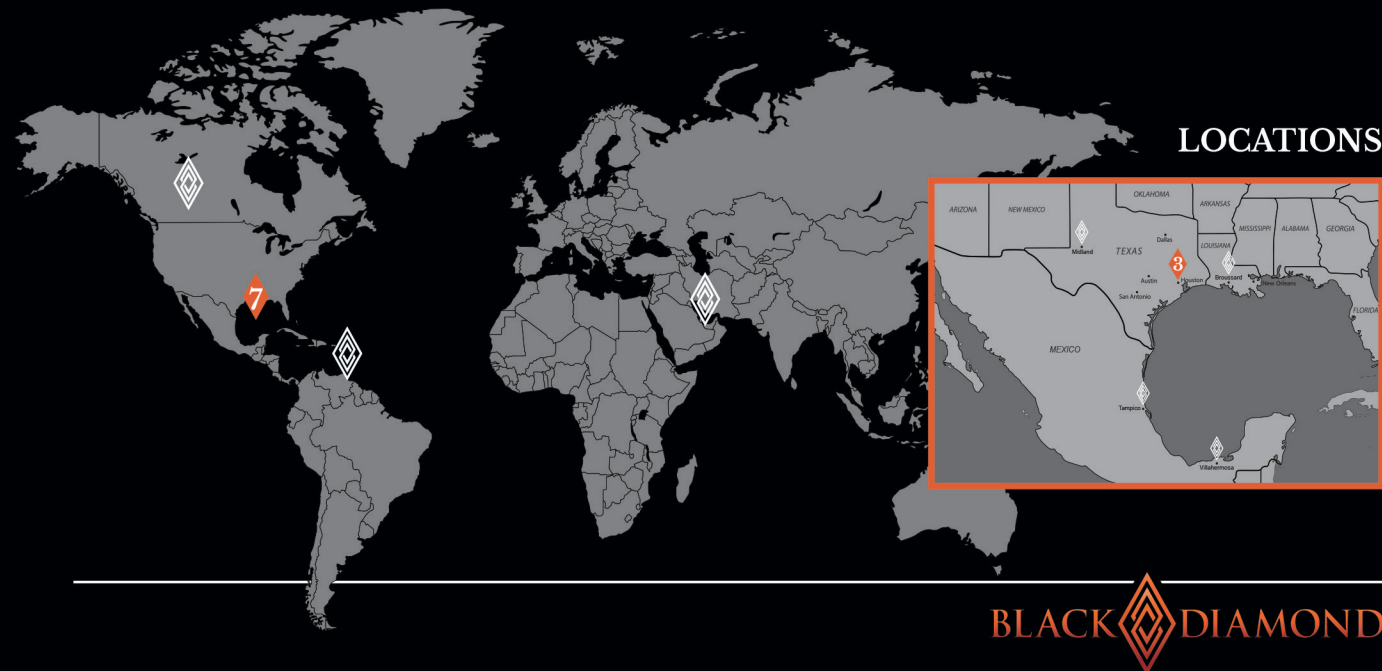
Features and Benefits

- **Simple & Reliable Disengagement:** Back-off achieved with basic drillstring control.
- **Downhole Re-Engagement:** Driller can easily make-up the connection should the Safety Joint inadvertently become disengaged.
- **Multiple Applications:** Can be deployed in any downhole toolstring - drilling, reaming, logging, fishing, sidetracking, testing etc. Trusted operation in all well profiles and drilling scenarios.
- **Reduced Non-Productive Time [NPT]:** Minimizes downtime by quickly addressing issues and preventing costly delays.
- **Assured Connection:** Unique sealed thread design withstands heavy rotational and jarring loads without loosening or overtightening.
- **Fully Customizable:** The Safety Joint Sub can be manufactured with any connections.
- **High Temperature:** 190 °C/ 375 °F seals as a non-premium standard.
- **Extended Operating Envelope:** Advanced engineering and superior sealing technology ensures reliable and efficient performance, allowing operation in the most extreme environments without compromising functionality.
- **Operational Flexibility:** Allows for strategic placement within the drillstring for optimal safety coverage.
- **Enhanced Safety:** Adds an additional layer of safety for downhole operations, protecting both personnel and equipment. Provides a reliable means to disconnect the drill string in case of a downhole emergency.

Safety Joint Sub Specifications

Nominal OD (in.)	Length (ft)	Thru Bore (in.)	Tensile Yield (lbs)	Torsional Limit (lbf-ft)	Beak-out Vs Make-up Torque (%)	Max. Make-up Torque (lbf-ft)	Standard Required Break-out Torque (lbf-ft)	Theoretical Make-up Torque to Obtain Standard Break-out (lbf-ft)	Weight (lbs)
5 ¼	4.1	2.50	980,000	50,000	50 - 60	37,000	10,000	18,200	220
5 ⅜	4.1	2.50	980,000	50,000	50 - 60	37,000	10,000	18,200	240
6 ½	4.6	3.25	1,400,000	85,000	40- 50	64,000	14,000	31,800	380





LOCATIONS



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BLACK DIAMOND CONROE

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BLACK DIAMOND MWD

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BLACK DIAMOND WEST TEXAS

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Midland, TX 79705
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MIDDLE EAST

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