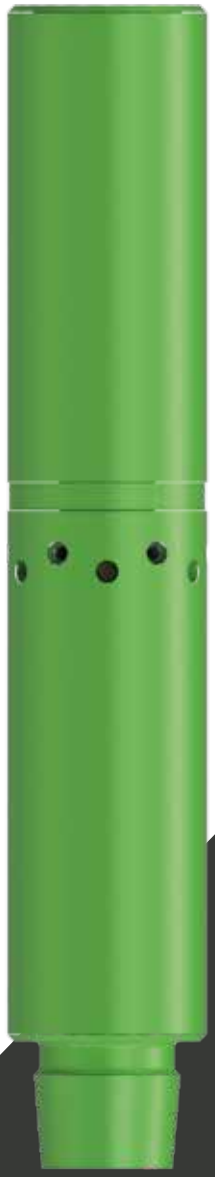
BOP Jetting SUB

INTRODUCTION

The BOP Jetting SUB is a simple and robust BOP jetting device. It allows jetting of the BOP ram cavities, annular and wellhead to dislodge debris. It is available with variable external diameters to suit surface and subsea BOP stacks.

Debris can collect inside the BOP and wellhead area during drilling, due to the sudden drop in fluid annular velocity. This debris can then fall back into the well, during completion deployment, preventing setting of packers or installation of the tubing hanger.



FEATURES

- Replaceable jetting nozzles
- Dart activated Shear-able Sleeve allows the jetting ports to be opened on demand
- Shear pins can be configured for various shear settings
- Dart can be fished to re-establish flow below the tool if desired.
- Available with various external diameters for various applications.
- Available in API and Premium thread connections.
- Full through bore for circulation.

BENEFITS

- A properly executed wellbore clean-up mitigates risk during completion operations and the productivity of the well.
- Prevent debris related failures during completion

APPLICATIONS

- Pre-completion wellbore clean-up
- Workovers and sidetracking
- Abandonment
- BOP jetting

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BOP Jetting SUB

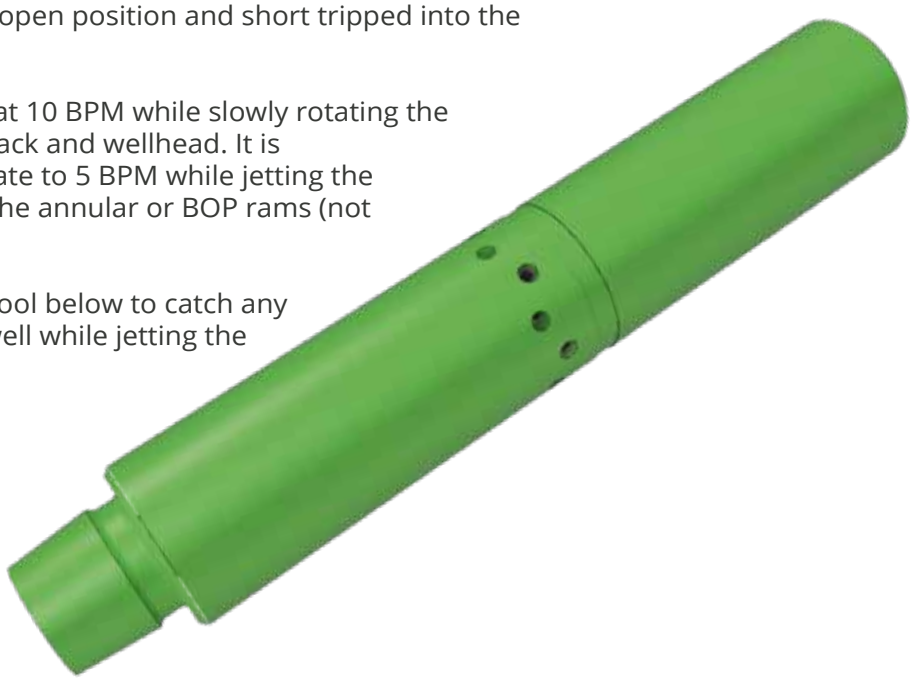
OPERATIONAL

The BOP Jetting SUB can either be short tripped into the well or run as part of a comprehensive wellbore cleanup string. When required, the BOP Jetting SUB is positioned at the BOP or Wellhead depth. The Activation Dart is dropped into the string which lands on the Shear-able Sleeve.

Pressure is applied to shift the Shear-able Sleeve and allow circulation through the Jetting Nozzles. For surface BOP stacks, it is not always necessary to install the Shear-able sleeve, and it can be run in an open position and short tripped into the well.

To jet the BOP stack, it is typical to pump at 10 BPM while slowly rotating the string, making 3 passes across the BOP stack and wellhead. It is recommended to reduce the circulation rate to 5 BPM while jetting the annular to prevent damage. Functioning the annular or BOP rams (not shear rams) can help dislodge any debris.

It is recommended to run a junk catcher tool below to catch any dislodged debris that may fall down the well while jetting the BOP stack.



TECHNICAL SPECIFICATIONS*

Tool OD (in.)	Tool ID (in.)	Connection	No. of Ports	Nozzle ID (in.)	Shear Pressure (psi.)	Tensile Yield† (lbs.)	Torsional Yield† (ft.lbs.)	Max. Slack-Off (lbs.)	Burst/Collapse (psi.)	Max. Rotation (rpm.)
11.000	2.125	NC 50	9	0.472	2,300	1,364,665	105,496	10,000	>10,000	120
7.000		NC 50	6							

**Specifications are for marketing purposes only and may be subject to change. No warranties implied.*