

# BRISTLE BACK Surface Wellhead Brushing/Jetting Tool

## WBJT (SUR)

The wellhead area has been widely recognized as one which requires particular attention during wellbore cleanup operations performed before running the completion. This tool ensures that the multiple profiles are cleaned and free of debris prior to completion, reducing the incidence of Non-Productive Time (NPT).

### Features

- One-piece, full-strength mandrel
- Brass bristle-impregnated sleeve
- Integral jetting slots on tool
- Jetting activated by bearing/diverter ring
- Simple and easy to operate

### Benefits

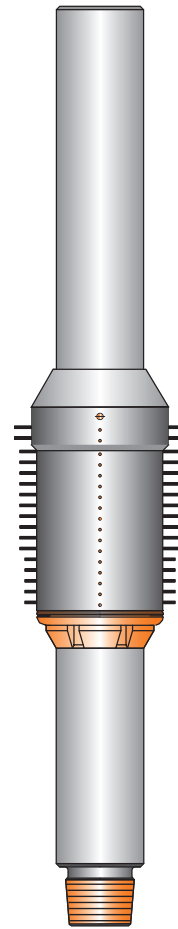
- Reduces NPT
- Ensures surfaces are cleaned and free of debris before running the completion

### Applications

The BRISTLE BACK\* Surface Wellhead Brushing/Jetting Tool (WBJT) from M-I SWACO\* WELLBORE PRODUCTIVITY\* simultaneously performs brushing/jetting functions on surface wellheads.

### How It Works

The tool is constructed on a one-piece, full-strength mandrel with box-up/pin-down drill-pipe connections. Mounted on the mandrel is a brass bristle-impregnated sleeve with jetting slots, sized for the various ID changes within the hanger area. The sleeve is rotationally locked to the mandrel and provides an annular space for circulation between the ID of the sleeve and the OD of the mandrel. A bearing/diverter ring is mounted at the bottom of the bristle sleeve to act as a “no-go” ring when running in hole.



When the ring bottoms-out in the hanger area, the circulation is diverted to the jetting slots, and the tool is run to hanger depth while slowly circulating and rotating. The bristles sweep the profiles and sealing surfaces while they are being jetted with the circulated fluid.

When running, the tool should be landed with minimum weight; a small pressure increase will be noted. Rotate and jet for approximately 5 min, then pick up and increase pump rates to circulate loosened material out of the well. Debris cannot fall down the well when the landing ring is in contact with the hanger.

The tool cannot be operated prematurely and, because the mandrel is solid, it is safe in well-control situations. A separate jetting sub can be run below the tool to allow operation and jetting of the blowout-preventer rams before brushing-jetting the wellhead hanger area. For extra assurance, a WELL PATROLLER\* or WELL PROTECTOR\* unit is often run below the tool to collect any debris which falls into the well when the WBJT is not seated in the hanger area.



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