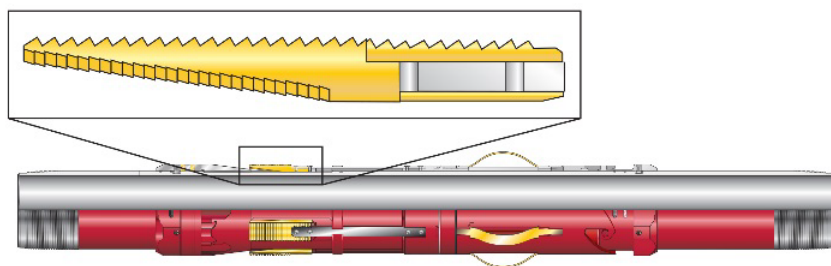


## C-Series Mechanical Liner Hanger Modified With Dual-Grip Slips to Enable Running Wire-Wrapped Screen Across Pay Zone



The C-series mechanical liner hanger was modified using dual-grip slips (inset).

### Objectives

- Install a short wire-wrapped screen across a pay zone using a liner hanger system to preclude use of a hold-down sub.
- Run a straddle packer instead of a completion packer, with its smaller inside diameter.

### Our Approach

- Weatherford liner system experts met with the operator to evaluate the option of using a liner hanger without a hold-down sub for installing a short section of wire-wrapped screen downhole. The operator reasoned that this well would not require a hold-down sub—typically run in conjunction with a light liner—to prevent the liner from being unset and pushed up the well by hydrostatic forces.
- To accommodate the customer's completion specifications, Weatherford liner engineers modified the C-series liner hanger slips with dual grips.
- The liner team ran four trial jobs for the customer. The success of the dual-grip slips and straddle packer installation convinced the customer to use the new dual-grip hangers for light liner applications.

### Value to Customer

- The dual-grip hanger enabled the customer to save at least \$10,000 on each well in which they ran light liners.
- The dual-grip hanger also enabled the operator to install a straddle packer instead of a small-ID completion packer.
- The modified hanger eliminated the need for a hold-down sub while eliminating the risk and associated nonproductive time caused by hydrostatic forces unsetting the light liner.

#### LOCATION

Sultanate of Oman

#### WELL TYPE

Onshore oil producer

#### HOLE SIZE AND ANGLE

8-1/2 in., 40°

#### CASING SIZE

9-5/8 in.

#### LINER SIZE AND TYPE

7 in., 23 lb/ft

#### TOP OF LINER

4,757 ft (1,450 m)

#### LANDING COLLAR DEPTH

5,675 ft (1,730 m)

#### TOTAL DEPTH

5,740 ft (1,750 m)

#### TEMPERATURE

122°F (50°C)

#### PRODUCTS/SERVICES

- Polished bore receptacle
- Liner top packer
- C-series dual-grip mechanical hanger
- Landing collar and plug system
- Float shoe

