Protecting ESP Cable on Four Challenging Permian Wells Using WWT Slider-Clamp Cable Protectors

Protecting ESP Cable and Capillary Tube

WWT Slider-Clamp Cable Protectors were utilized to protect both the ESP cable and CT. The Slider-Clamps were used on 4 wells where side forces were greater than 1,5000[lbf/joint] @ ESP landing depth. The wells were Permian horizontal wells, with ESP set at the top of the curve at approximately 8500ft MD. The well used 2-7/8" pipe with #2 flat cable and ¼" cap. tube.

Slider-Clamp Specifications

WWT utilized standard blue SP-model Slider-Clamps, and high temperature DP-model Slider-Clamps installed at 1 per joint. These were run from 1500ft MD to just above the motor lead extension (MLE). The wells used approximately 200 Slider-Clamps per well

Slider Clamp Ease of Installation

The WWT Slider-Clamps were easily installed using standard 3/4" banding. Slider-Clamps were located approx. 12" below each coupling, stretched around the pipe and cable, and banded per normal rig procedures. Two additional bands placed on each joint for redundancy.

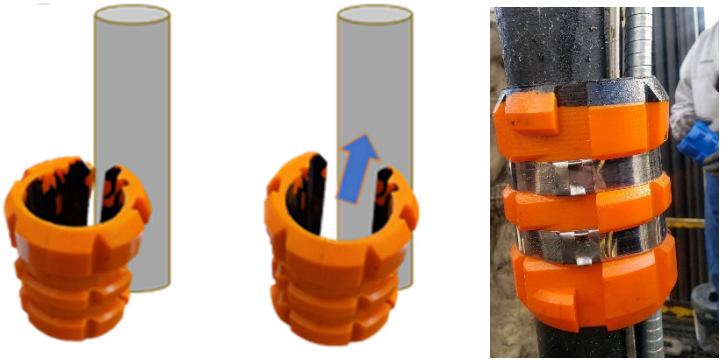
Slider Clamp Installation Time

Comments from the banding and rig crews were that the WWT Slider-Clamps were easier and faster to install than many of the other protectors in the market. Installation of the Slider-Clamp and bands took approximately 25 seconds per clamp.

Location: Permian
Well Type: Pad-horizontal
Objective: Protecting ESP Cable and CT
Solution: WWT Slider Clamp Cable Protector
Results: TD was reached with no issues

Specifications

Model	OD (in)	ID (in)	Length (in)	Material	Max. Temp (°F)	Banding
SP (Blue)	4.40	2.88	5.5	1-Piece Polyurethane	230	2x ¾"
DP (Orange)	4.40	2.88	5.5	1 Piece High Temp Polyurethane	260	2x ¾"



WWT Slider-Clamp Cable Protector easily installed.
Locate the position on pipe, place around pipe and cable, and band.

Typical WWT Slider-Clamp installed on one of the four wells.

WWT Slider-Clamp
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