500Te TENSION TABLE

A simple solution to a complex problem

Enteron
A GoreVega Company

APPLICATIONS

- Intervention, repair and decommissioning operations for aging wells or identified high-risk operations
- Structural integrity analysis on wells where subsidence has occurred
- Structural support to minimize conductor fatigue

BENEFITS

- Small footprint on platform
- Reduced weight stresses in compromised well structures
- Patented system to support 500 Te on standard wellheads
- Limited riser movement maintains barrier/structural integrity
- Increased load and stroke capacities over traditional tension frames
- Reduced costs with potential rigless and simultaneous operations
- Sustain heavy loads in harsh environmental conditions
- Prevent fatigue on equipment resulting in a longer life span
- Adaptable for platform operations.

FEATURES

- Stacking system to increase vertical lift and force
- Slot configuration to allow application after rig-up

Enteron500™ wellhead tension table sustains the heavy load of operational equipment – relieving stresses exerted on the wellhead.

The 500Te was designed to address space limitations and the high-risks of harsh operating environments, particularly in offshore applications. The most common application for this compact well tensioning system is intervention operations where load transfer through the wellhead is undesirable and structural integrity of the completion may be compromised.

Enteron500™ delivers up to 500Te, well above the traditional tension frame rating. The tension table is mounted above the wellhead on a rig floor or platform capable of sustaining exerted loads during operations. A high-tensile strength riser connected to the wellhead and a pancake flange on top of the tension table transfers the tension between the well and surface structure. Tension is regulated and sustained by precise pressure control to the hydraulic cylinders. Applied force is derived from pressure calculations based on cylinder size, number of cylinders and hydraulic pressure. Increased stroke and pulling force can be achieved by stacking tension tables and adding hydraulic cylinders.

Enteron's modular unit (less than 4 ft. x 4 ft.) with larger load capacity permits rigless intervention, with the possibility for simultaneous operations. For example, pre-abandonment work can be conducted with the tension table with a rig following to complete the abandonment process. Rigless and simultaneous operations could lead to cost reductions in equipment and man hours, and safer operations overall.

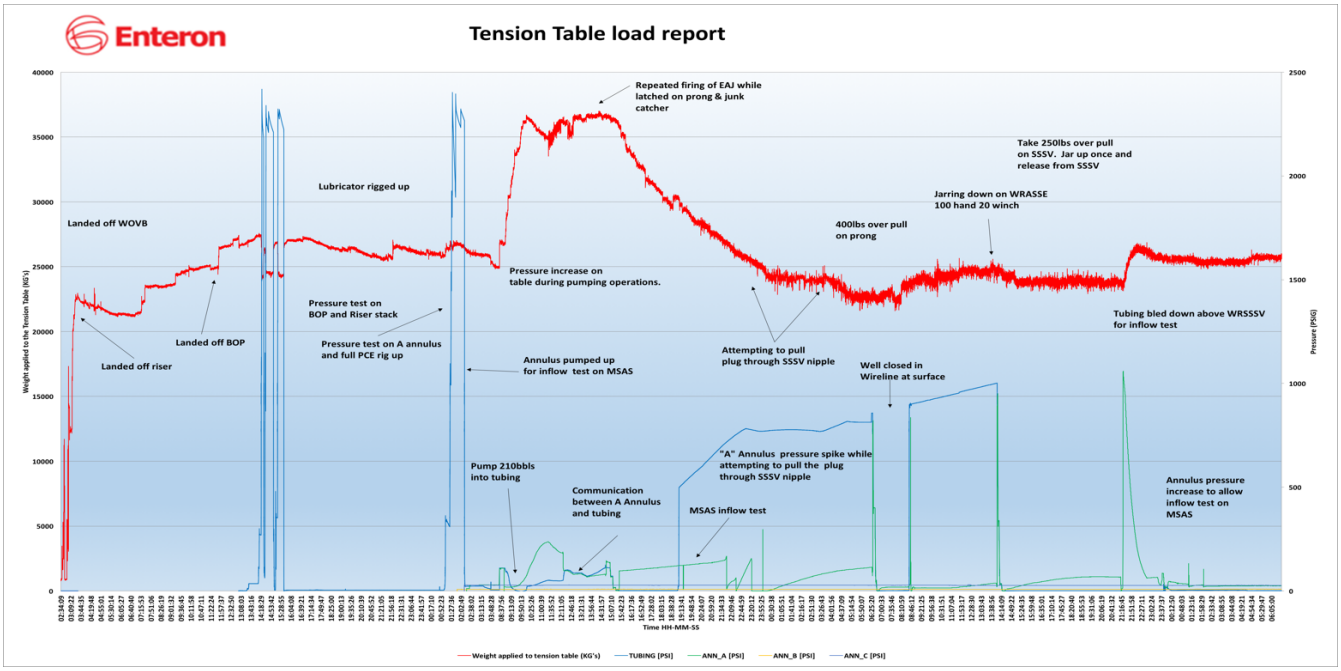
500Te TENSION TABLE

A simple solution to a complex problem

Enteron
A GoreVega Company

CASE HISTORY

During an engineering study and design process prior to the start of a decommissioning project in the North Sea, consisting of 3 platforms with 39 wells in harsh weather conditions, it was identified that some of the well conductors and casing strings could be structurally at risk due to corrosion and erosion. Integrity could be compromised if any additional loading from work over and intervention equipment was installed directly on to the Xmas trees. The client calculated the maximum allowable load and confirmed a tension table was needed. Traditional lower-capacity tension tables were not suitable to support the operations. Enteron provided a heavy-weight well integrity system to take the load off the well, supporting the intervention, pressure control equipment (PCE) and tools during critical stages of the decommissioning project. Enteron provided assurance for the well integrity by using the Enteron Heavy Duty Tension Table and High Tensile Riser.



Enteron 500™ Specifications	
Maximum lifting capacity	500Te / 1,102,311 lbs.
Twin-tier design, i.e. two levels	Up to 508 mm / 20 inch stroke
Number of hydraulic jacks per level	8
Maximum hydraulic pressure	690 bar / 10,000 psi
Stroke per level	254 mm / 10 inch
Optimum riser ID	180 mm / 7.06 inch
Foot print	1200 mm x 1200 mm / 47.25 inch x 47.25 inch

Enteron, a GoreVega company, offers 24/7 service and equipment. Enteron Services is in compliance with DNV and ISO 9001 certification. Contact us using the general enquiry at www.enteron.co

Enteron Ltd, 39 Queens Road, Aberdeen, AB15 4ZN. Scotland, Tel: +44(0)1224 430100, www.enteron.co