V95 HP Quick Rig-up CTU

Precision Control and Superior Reliability
The QR CTU is designed around the proven V-Block® gripper chain and split beam injector technology found in the Halliburton's 60K CTU systems. Significant design improvements have been made to not only increase the pull capacity to 95,000 lbs, but to improve overall performance and reliability. The V95HP injector incorporates the advanced tubing control features that are especially suitable for enhanced operations.

Gripper traction length (tubing engagement) is over 36-in. Full length anti-buckling tubing guides constrain the tubing to reduce snub force induced buckling instability in the space between the gripper chains and the stripper.

Bi-directional dynamic braking control valves maintain positive control if tubing movement regardless of load direction or magnitude. Secondary static brakes engage to arrest tubing movement if primary control devices are rendered ineffective. Advanced chain oiling system for increased reliability.

The injector can pass tools up to 7-in. O.D. The electronic depth measurement sensor is located on the injector, directly below the gripper chains, so it incorporates tubing stretch into the depth measurement.

Safety, A Primary Design Parameter
Personnel and well safety were top priorities in the design of the new V95HP QR CTU. The well control stack consists of heavy duty primary pressure control equipment rated for 15,000 psi working pressure and H2S exposure. The stripper is a 4 1/16-in., 15,000 psi Over/Under Dual Stripper flanged to a 4 1/16-in., 15,000 psi, quad ram blowout preventer (BOP). All connections are flanged with metal to metal seals. A remotely controlled isolation valve contains pressure inside the reel for added safety if the reel swivel becomes damaged and needs to be re-dressed. Deboosters keep pressure and wellbore fluids away from the operator’s console area. The reel is equipped with 15,000 psi working pressure manifolding, and the swivel is designed for “pump through” access.

Increased Tubing Life and Reliability
The injector is equipped with a newly designed “segmented” tubing guide with an effective base radius of curvature of over 120-in., minimizing the bending strains in the critical section, translating V95 HP Quick Rig-up CTU to longer tubing life and reduced diametral growth. Similarly, the reel’s large core diameter of 84-in. contributes to improved tubing cycle life. In addition, the tubing guide allows tubing to remain installed in the injector during transport for improved safety and reduced rig-up time.

Electronic Monitoring System
The electronic Data Acquisition System (DAS) monitors all the critical surface parameters and displays the measured values in front of the operator and customer. Certain real time calculations are also performed and displayed. The critical stress, collapse resistance, and tubing life utilization are some of the values which are computed in real time. All monitored and calculated parameters are recorded and available for post-job analysis and playback. A proprietary post-job fatigue tracking program is used to maintain tubing database records. This helps determine when the particular tubing string has reached the end of its useful life. The goals of the DAS system are to give the operation better information on location, and to indicate potential tubing problems before they arise.

The new V95HP QR Coiled Tubing Unit is ideal for applications where deeper work, larger OD pipe, and higher push/pull ratings are required. This fit-for-purpose coiled tubing unit may be the ideal solution for your application requirement.
Benefits

- New V95HP Injector based on proven 60K Technology
- Increased Hoist Capacity (Pull Rating) to 95K
- Injector Mounted on Reel Trailer
- Increased Tubing Carrying Capacity
- Deeper String Capacity
- Shaftless Reel Design with Direct Drive Motors
- Rugged Reel Swivel
- Larger O.D. String Capacity
- Better Tubing Management Capacity
- Improved Tubing Life
- Larger Application Variety
- More Flexibility

Features

- Micro-Fine Hydraulic Controls
- 85,000 lb Continuous Pull Rating
- 95,000 lb Intermittent Pull Rating
- 40,000 lb Snub Rating
- Increased Size of Power Pack - 300+ BHP
- Imbedded/Shaftless Reel - Allows Larger Hub Diameter/Width
- Designed to Allow Maximum Tubing Length to Meet Local Weight Limits
- Trailer Capacity up to 60,000 lb of tubing
- Triple Rear Axle Truck (Lift axle on forward rear set)
- Quad Axle Trailer (Lift axle on forward set)
- Injector Mounted on Tilt Mechanism, Tubing Remains Stabbed in Injector at all Times (Benefit to Safety and Rig-up speed)
- Electronic Data Acquisition System (DAS)
- Electronic Operator and Customer Display
- 4 1/16-in., 15,000 psi, H2S Rated BOP
- Adapts Easily to Larger Rental BOP’s
- 4 1/16-in., 15,000 psi, H2S Rated Dual Stripper (Over Under)
- Dual Stripper Allows for Redundant Pressure Control
- 15,000 psi Flow Cross also Standard (4 Lo Torc® Valves)
- 1 1/2-in. Through 2 3/8-in. V-Block® Gripper Chains (standard)
- New Segmented Tubing Guide, Over 120-in. Effective Radius
- Segmented Guide Reduces Tubing Fatigue (typical ring-ups)
- Segmented Guide Significantly Reduces Rig-up Issues
- Large Reel Core Diameter - 84-in.
- Pump Through Reel Swivel (15,000 psi)
- 15,000 psi Working Pressure Manifolds

For more information, contact your local Halliburton representative or email us at production-solutions@halliburton.com.

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