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Stellar Technology's High Capacity Coiled Tubing Load Cells Designed for Shale Plays



Stellar Technology introduces an expanded line of coiled tubing load cells designed specifically to meet the demands of coiled tubing applications for shale gas and shale oil wells. Since a large majority of shale gas/oil wells are horizontal, one of challenges with CT operations on long horizontal laterals is to reduce the chances of coiled

tubing buckling. Such a condition can lead to coiled tubing “lock-up”. At this point there is no more movement of the coiling tubing into the horizontal well. A solution to CT buckling and CT lock-up in extended reach horizontal wells is to utilize more rigid coiled tubing. This means tubing with thicker walls, larger OD’s, and longer lengths. This in turn leads to extra coiled tubing and larger equipment requiring larger capacity load cells for CT injector heads.

Stellar Technology has extended CT load cell capacities for both pancake and load pin configurations to include ranges from 80K thru 300K lbf and beyond. All STI coiled tubing load cells have 4-20 mA output, are calibrated in both tension and compression, and are both ATEX and CSA certified intrinsically safe. Stellar Technology also has a 600K lbf load cell calibrator used to calibrate high-capacity coiled tubing load cells. This specialized calibration system significantly reduces lead times.

Stellar Technology coiled tubing load cells are the load cells of choice for upstream oil and gas applications.