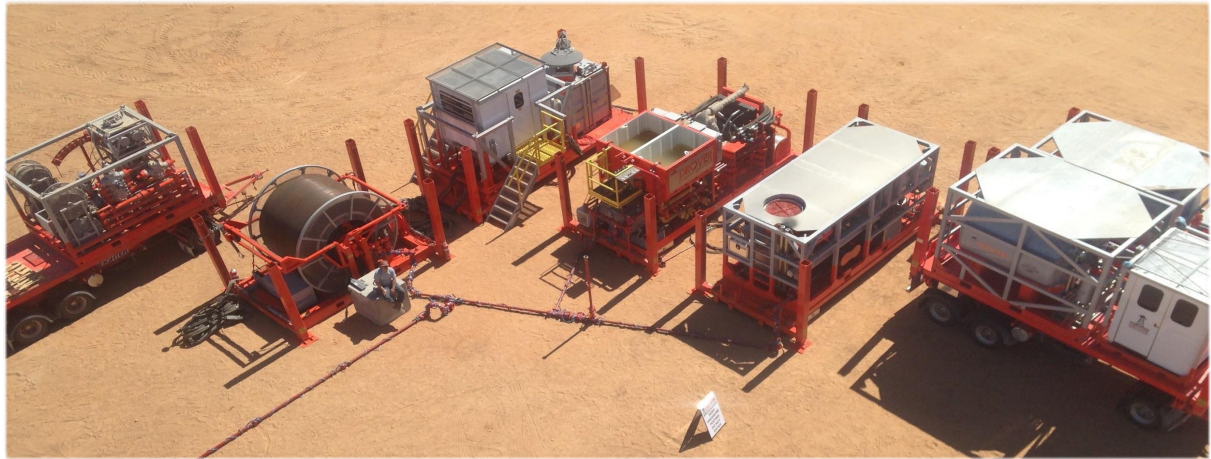




Coil Tubing **Services**



March 2015



DROVER ENERGY SERVICES is a team of dedicated personnel with over 100 years combined experience and expertise in the capillary and coil tubing markets. In 16 years our experienced group has been responsible for installing in excess of 6000 capillary injection systems and a variety of coil tubing jobs in over 34 different countries. This depth of varying knowledge provides you with a valuable resource to address your needs concerning capillary and coil tubing services internationally, whether land based or offshore. We provide engineered solutions, built to spec equipment and experienced international deployment crews for both local Coil and globally recognised service and oil companies throughout the world.

Coil Tubing Applications

CLEANOUTS

Coiled tubing can be used to remove scale, produced sand, frac sand and debris from the wellbore.

Coiled tubing is run into the wellbore, fluid is pumped down the coiled tubing and returns are circulated through the annulus.

Coiled tubing can rig up and get to depth quickly without killing the well or pull the production tubing.



NITROGEN INJECTION

Coiled tubing allows the injection of nitrogen at depth into a dead wellbore to displace the wellbore fluid with nitrogen.

This lowers the bottom hole pressure and allows the well to resume flowing.



STIMULATION

Coiled tubing treatments are designed to restore the natural permeability of the near-wellbore formation by injecting treatment fluids into the formation. Coiled tubing stimulation can be performed on live wells and combined with other operations such as nitrogen injection.

VELOCITY STRINGS

Coiled tubing is run into an existing producing well to reduce the effective flow area to allow the natural reservoir pressure to lift water from the reservoir, allowing natural pressure to sustain production in mature producing wells.

***"Fast and reliable
Rig Up-Rig down.
Get the job done-
and gone before
you know it"***



SUBMERSIBLE PUMP AND CAPILLARY ENCAPSULATED

An ESP cable can be installed into the coiled tubing prior to deployment, enabling the coiled tubing to support the ESP cable, and facilitate the rapid deployment and retrieval of ESPs. A Chemical injection string may also be installed into the coil tubing for purposes of continuous treatment.

LOGGING/PERFORATING

Wireline cables installed inside coiled tubing allows the deployment of logging or perforating tools in highly deviated wells. Coiled tubing offers several advantages over traditional wireline methods, including enduring greater tensile and compressive forces and the ability to work in live wells.



WORKOVER APPLICATIONS

- Backwashing
- Milling
- Sand Washing
- Solid Removal
- Thru-Tubing Fishing
- Well Circulation
- Foam Washing with Nitrogen
- Deployment of Downhole - Pumps and Cameras

PRODUCTION ENHANCEMENT

- Acid Stimulation
- Paraffin Removal

CRITICAL WELL APPLICATIONS

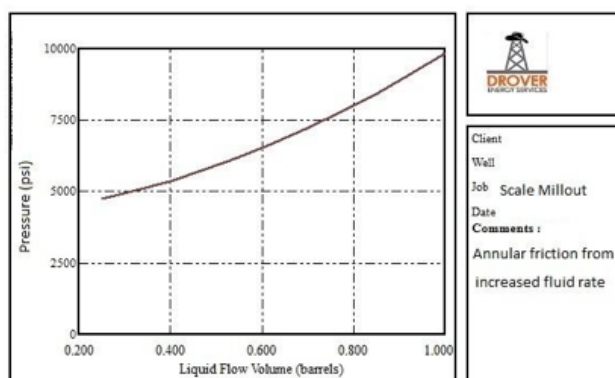
- CO₂ and H₂S Services
- High Temperature and Pressures

Coil Tubing Equipment Specifications

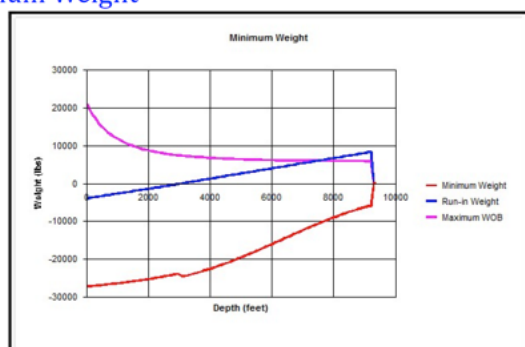
Control Cabin	Tubing Spool	BOP	Injector
Electronic and hydraulic controls	14000ft of 1.5" Coil	10,000 psi wellhead working pressure	Up to 35,000 lbs pull capability
Real-Time data acquisition and fatigue analysis of tubing	Can be changed out to required coil size and application	Nitrogen pressurised accumulator with hydraulic backup	5/8" to 1 1/2" tubing sizes
In Cabin 8 Station Closing Unit	Full Australian transport compliance	Full remote BOP control system	72" Arch Radius
Full Sat comms		Quad Stack	

DRAW & BUCKLE AND TUBING FORCE ANALYSIS SOFTWARE

Drover Energy has full engineering capabilities for drag and buckle, determining the required surface equipment for the job, as well as downhole tool design and optimization. With full pre-job planning and fluid analyses, the job becomes safer and more efficient, leading to better results for the customer. The onboard data acquisition system monitors tubing life for proper string retirement before failure.



Minimum Weight



With pre-established operating limits calculated from job-to-job, operations are conducted within the limits of the equipment, field personnel work smarter, and the well is left in a better state than when started



Contact

Drover Energy Services, Head Quarters

Kilgore, Texas
USA
+1 903-986-8911
info@droverenergy.com
www.droverenergy.com

Drover Energy Services, Moomba

Moomba, Sth Australia
Australia
+61 8-7088-7284
sasupervisor@droverenergy.com

Drover Energy Services, Brisbane

Brisbane, Queensland
Australia
+61 7-3809-3271
info@droverenergy.com