

COILED TUBING AND NITROGEN UNITS SERVICE



Range of activity:

- Well cleanouts from sand, paraffin deposits, sediments, hydrates and other debris
- Production stimulation (formation acidizing or fracturing)
- Milling and drilling with downhole motors: frac plugs and ports, cement, general debris removal – including bridge plugs and scale
- Underreaming
- High pressure jetting
- Plug or bridge plug setting for plugging back depleted zones or isolating leaks
- Run with Thru-tubing inflatables tools: packers, plugs, cement retainers etc.
- Logging and various types of perforating
- Tools run on CT for various parts of the completion operation
- Velocity String Installation
- Cement Squeezing
- Well killing
- Fishing jobs
- Displacing fluids from the borehole with nitrogen
- Pressure/leak testing
- Displacing vessels and pipelines, installation cleaning



EQUIPMENT



Coiled Tubing Hydra Rig 1.75" / 1.5"

- Length: 5100m (optional 1,5" 6000m)
- Working pressure 42 MPa
- Injector HR680
 - Pull strength 80k lbs, snubbing 40k lbs
 - Electronic weight indicator from TOTCO
 - 100" gooseneck
 - Stripper working pressure 70 MPa
 - Working speed 3 – 200 ft/min
- Hydraulic BOP 4-1/16"
 - Working pressure 70 Mpa
 - Four Rams: Pipe Ram, Slip Ram, Cut Ram, Blind Ram
 - Control panel in CT Control cabin
- CT Injector tower
 - Max high 13m
 - Max load 80 tons
 - Lower section dimensions 5 m x 2.5 m
 - Supports the injector head during normal coiled tubing operations
 - Upper section allows moving injector in three dimensions
- Riser:
 - Internal diameter 4-1/16"
 - Working pressure 70 Mpa

Coiled Tubing Hydra Rig 1.50"/ 1.25"

- Length: 5300m and 4700m
- Working pressure: 35 MPa
- Injector Hr240:
 - Pull strength 40k lbs, snubbing 20k lbs
 - Hydraulic weight indicator from TOTCO
 - 72" gooseneck
 - Stripper working pressure 70 MPa
 - Working speed 3 – 200 ft/min
- Hydraulic BOP 3-1/16":
 - Working pressure 70 MPa
 - Four Rams: Pipe Ram, Slip Ram, Cut Ram, Blind Ram
 - Control panel in CT Control cabin
- Riser:
 - Internal diameter 3-1/16"
 - Working pressure 70 MPa

Nitrogen Units Stewart & Stevenson N 181 NF i NT 181 NF

- Manufacturer Stewart&Stevenson
- Working pressure: 70MPa
- Nitrogen pumping temperature: 0 – 50 °C
- Tank capacity: 5500 kg LN₂ (4400 Sm³ N₂)
- Nitrogen pumping rate: 10 – 60 Sm³

Coiled Stewart & Stevenson Tubing 1.25"

- Length: 2700m
- Working pressure 35 MPa
- Injector S&S 400:
 - Pull strength 40k lbs, snubbing 20k lbs
 - Hydraulic weight indicator from TOTCO
 - Gooseneck 32"
 - Stripper working pressure 70 Mpa PSI
 - Working speed 3 – 200 ft/min
- Riser:
 - Internal diameter 3-1/16"
 - Working pressure 70 MPa

Nitrogen HydraRig Unit NF-180

- Manufacturer: Hydra Rig
- Cryogenic triplex pump, Working pressure 70 Mpa
- Nitrogen pumping temperature: 0 – 50 °C
- Tank capacity: 9000 kg LN₂ (7200 Sm³ N₂)
- Nitrogen pumping rate: 6 – 60 Sm³

Jednostka Azotowa Hydra Rig NT-127

- Manufacturer: Hydra Rig
- Cryogenic triplex pump, Working pressure 70 Mpa
- Nitrogen pumping temperature: 0 – 50 °C
- Tank capacity: 6000 kg LN₂ (4700 Sm³ N₂)
- Nitrogen pumping rate: 12 – 60 Sm³

Nitrogen Unit HydraRig NPT 180

- Manufacturer: Hydra Rig
- Working pressure: 70 MPa
- Nitrogen pumping temperature: 0 – 50 °C
- Tank capacity: 6000 kg LN₂ (4700 Sm³ N₂)
- Nitrogen pumping rate: 12 – 60 Sm³

HPS double pumping unit

- Built-in container: Length 9 m, weight of set 23 500 kg
- Working pressure: 70 MPa
- Engine: 2x Caterpillar C- 11 (313 kW) 425KM
- Transmission: 2x Allison automatic
- Pump rate min. 65 l/min at 70 Mpa, max 920 l/min at 19,1 Mpa
- Pumps: 2 x MSI 600KM
- Tank capacity: 2 x 1,5 m³
- Data acquisition system

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