

# Coil Hose



## Key applications

- Upper completion, SSSV and XMT cleanout (Calcium carbonate scale/paraffin and asphaltenes)
- N2 gas lift kick-off/unloading wells (300bar N2 racks or conventional cryogenic pumps)
- 300 bar racks for depths less than 1000m and smaller ID completion
- Hydrate and debris removal
- Jetting services, chemicals combined with high pressure force
- HCL Acid, Solvent, MEG/Water, Brine, Diesel and Nitrogen compatible
- Circulation and/or chemical spotting at low rate pumping
- Memory logging services

## Key features and limitations

- Enables rigless light well circulation services
- Gravity feed to the well – max 60 degrees deviation
- Wellhead pressures above 100 bar need to be reviewed
- The CoilHose is constructed with 6 different layers
- CoilHose is not suitable for fluids with a particle content or high concentrations of HF acid
- No drilling, milling, solids cleanout, mechanical, velocity string, work scopes, real time logging, lower completion, reverse circulation interventions (depth dependant), or intervention with exact depth control (due to stretch factor)

## Benefits

- Innovative system that can incorporate both wireline and coiled tubing as a 'hybrid system'
- Integrated services crew structure
- Lowers the overall cost of intervention
- Alternative technology to Coil Tubing for certain applications
- Mobile, flexible and compact with a relatively small footprint
- Superfast rig-up times (3-4 hours/critical rig time) with lightweight PCE
- Integrated well intervention crew structure
- Reservoir friendly – less chemical damage when bullheading



# CoilHose Light Well Circulation System

| Specifications  | ¾" CoilHose                  | 1" CoilHose                  |
|---|------------------------------|------------------------------|
| Outer diameter  | 19.5 mm                      | 22.6 mm                      |
| Inner diameter  | 9.8 mm                       | 12.9 mm                      |
| Breaking strength   | 14,330 lbf                   | 14,330 lbf                   |
| Burst pressure limit  | 50,000 psi                   | 40,000 psi                   |
| Collapse pressure   | 4,670 psi                    | 3,800 psi                    |
| Working pressure  | 12,500 psi                   | 12,500 psi                   |
| Temperature rating  | -40°C to 150°C               | -40°C to 150°C               |
| Recommended max depth in combination with max. deviation - 60 degrees (gravity fed) | 1200 m<br>Fluid and nitrogen | 3500 m<br>Fluid and nitrogen |
| Nominal diameter  | 0.768"                       | 0.890"                       |
| Wall size   | 0.191"                       | 0.191"                       |
| Weight in air   | 0.497 lb/ft                  | 0.632 lb/ft                  |
| Guideline fluid pump rate   | 10-35 lpm                    | 20-50 lpm                    |

Note: Additional factors to be considered – length of hose and weight of BHA, natural stretch of hose will reduce ID

Note 2. ¾" CoilHose length can be adjusted for retrofit third party units and has an optimum depth of 3500 m (N2) and 2000 m (fluid)

## N2 Pumping

| Circulation pressure | 9,000 psi        |                  | 12,500 psi       |                  |
|----------------------|------------------|------------------|------------------|------------------|
|                      | ¾ CoilHose       | 1" CoilHose      | ¾ CoilHose       | 1" CoilHose      |
| CoilHose length      | Pump rate (scfm) | Pump rate (scfm) | Pump rate (scfm) | Pump rate (scfm) |
| 3000 ft              | 736              | 1512             | 999              | 2052             |
| 4000 ft              | 630              | 1296             | 856              | 1766             |
| 5000 ft              | 559              | 1150             | 760              | 1562             |
| 6000 ft              | 507              | 1044             | 689              | 1418             |
| 9000 ft              | 407              | 840              | 554              | 1141             |

