Coiled Tubing, Nitrogen, and Pumping Services
Dedicated to the Marcellus Shale
As the premier coiled tubing (CT), nitrogen, and pumping services provider for the Marcellus Shale, Schlumberger supports 24/7 operations by having our engineers, downhole tool specialists, logistical personnel, mechanics, and laboratory technicians available at all times.

Each Marcellus project is managed by a project coordinator working closely with the operator. Resources are allocated as needed from a large pool of local engineers and supervisors. Well intervention services can be seamlessly integrated with our CT tools and other services, including milling, logging, matrix stimulation, and other workovers.

**MULTISTAGE HORIZONTAL COMPLETIONS**
Because of extremely low permeabilities, shale gas reservoirs typically require hydraulic fracturing. Many means of isolating these multistage completions exist, but CT is necessary at some point in the life of the well. For these demanding completions, Schlumberger CT services provide the ability to

- perform tubing-conveyed perforating (TCP) of the first completion stage
- mill out bridge plugs or ball seats to allow full wellbore access
- perform production logging—flow scan imaging or distributed temperature survey (DTS) measurements—and other electric line well logs
- clean out or lift a well back to production.

**BASE AT HORSEHEADS, NEW YORK, US**
The Schlumberger CT facility in Horseheads, New York, was established to service horizontal multistage completions needs in the Marcellus. It is ideally located to respond to immediate callout and minimize mobilization time and cost to the field. This base combines CT, cementing, stimulation, and other completions expertise to ensure high-level design and quality control. It also responds to complex operating conditions with strict environmental and regulatory compliance.

**Base contact information:**
224 North Main Street, Building S
Horseheads, New York 14845
+1 607 378 0200
OPERATIONS FACILITY
Horseheads, New York

RESOURCES
- Dedicated operations coordinator
- Operations team
- Design and engineering team
- Downhole tools engineering team
- Operations support laboratory
**COILED TUBING EQUIPMENT FEATURES AND SPECIFICATIONS**

**One-piece units**
- Availability on 2-in CT
- String lengths up to 14,000 ft
- Injectors capable of pulling 80,000 lbf
- 4½-in dual-combination blowout preventer (BOP) with 10,000-psi working pressure
- Drop-in drum reel configuration for ease of switching reels
- Pressure test stand for reduced operational time on wellhead

**Cranes**
- 45-t crane with 100-ft boom length
- 22-t crane with 50-ft boom length

**Multipurpose trailer-mounted fluid pumps**
- 600 hhp
- Maximum pump rate of 5 bbl/min
- Maximum pressure of 10,000 psi

**Nitrogen pumps**
- Fired pumps capable of 600,000-ft³/h standard pump rate and 10,000-psi maximum pressure

**Motors**
- Three sizes—11½, 2¾, and 2½ in
- Capability in temperatures up to 375 degF and nitrogen content up to 75%
- Long life for multiple-well use
- Twice the power of conventional stators
- Even layer of rubber for less swelling

**Coiled tubing logging**
- Heptacable logging capabilities
- Vantage* intelligent CT intervention head for plug-and-play operations, quicker connections, and higher flow rates
- Flow Scanner* horizontal and deviated well production logging system

**COILED TUBING OPERATIONS**
- Milling
- Perforating
- Isolation
- Logging
- Cleanouts and pumping (nitrogen and fluids)
- Acidizing
- Heat recovery pumps capable of 180,000-ft³/h standard pump rate and 10,000-psi maximum pressure

Schlumberger supplies a wide range of reliable CT services and 24/7 support to minimize mobilization times and save money for Marcellus operators.