

# Coiled Tubing Unit Specifications

## Power Unit

- Make/Model: John Deere, 6068HF485
- Serial Number: PE6068L152072
- Type: Tractor Trailer Unit

## Control Cab

- Dimensions: 6 ft long × 8 ft wide × 7 ft high
- Features:
  - Fully insulated and soundproof
  - Windows on all sides, rear window slanted to reduce glare and protect from tubing
  - White-coated aluminum interior lining
  - Work lights integrated into front peak of cab
  - Air conditioner and heater
  - 120V power inverter
  - Hydraulic cab lift system
  - Two-section aluminum stairs
- Controls:
  - Injector out-hole pressure control
  - Reel out-hole pressure control
  - Electronic throttle
  - Air emergency kill
  - Air reel brake controls
  - Weight indicator gauge
  - Pressure indicator gauge
  - Red Lion counter display
  - Injector high/low speed
  - Injector brakes
  - Chain/bag lubricator

- Stripper open/close
- Stripper pressure control

## In-Cab Controls

- Injector in-hole/out-hole controls
- Reel in-hole/out-hole controls
- Reel level wind joystick (up/down, left/right)
- Injector in-hole pressure control
- Skate open/close
- Skate pressure control
- Electronic BOP panel for Quad Stack
- Red Lion HMI for data acquisition
- MEDCO data acquisition system

## Gauges

- Reel pressure
- Stripper pressure
- Skate pressure
- Auxiliary hydraulics
- Air system
- Accumulator pressure
- Annular bag pressure
- Injector charge pressure
- Reel charge pressure
- Injector in-hole pressure
- Injector out-hole pressure
- Annulus pressure
- Wellhead pressure

## Rear Unit Controls

- Note: For surface rig-up, injector chain changes, and fitting tools to tubing; not for normal running operations

- Controls:
  - Emergency kill
  - Reel brake
  - Injector brake
  - Reel pressure control
  - Injector joystick (in-hole/out-hole)
  - Hose reel control
  - Outriggers

## Valve Bank Section

- Rear left outrigger
- Rear right outrigger
- Hose reel
- Winch in/out

## Lighting

- Work lights in cab peak facing reel
- Work lights at rear of unit

## Hydraulic Pumps and Drives

- Pumps:
  - HPV 135 (injector control)
  - HPV 55 (reel control)
- Tank: 200-gallon hydraulic oil tank
- Filtration:
  - Four high-pressure oil filters
  - One hydraulic return oil filter
- Cooling: Hydraulic oil cooler

## Hose Reel

- Capacity: 100 ft umbilical hose
- Operation: Hydraulic winding and unwinding

## Reel (Model CP1140)

- Capacities:
  - 6,000 meters of 2-inch tubing
- Features:
  - Two air pot-style reel brakes
  - Sauer Danfoss hydraulic drive
  - Chain-driven levelwind
  - Reel safety guard built into base
  - Integral iron attached to reel
  - Flange-on-flange reel to rotating joint
  - Rotating joint working pressure: 10,000 psi
  - Flange-style unions off reel shaft
  - 1.5-inch pitch 120 sprockets

## Integral Iron

- Specifications:
  - SPM working iron: 2-inch x 2-inch, 1.5-inch bore
  - 1502 unions working pressure: 10,000 psi
  - Rotating joints working pressure: 10,000 psi

## Accumulator System

- Capacity: 2 x 15-gallon bottles
- Controls:
  - Two control stations
  - Remote BOP control panel

## Injector (Model CPM 80)

- Tubing Size Capability: 0.75 inch to 2.375 inch
- Force Ratings:
  - Pull: 80,000 lb
  - Push: 40,000 lb
- Features:

- Hydraulic push and pull weights
- 100-2 internal roller chains
- 36-inch long hardened and reversible skate chains
- 72-inch radius guide arch
- Electronic counter wheel mounted in arch
- Magnetic pick-up on counter wheel
- Side door stripper base
- Four 3-inch bore skate cylinders
- PI Designs 10,000 psi side door stripper
- 4.5-inch BOEN union connections

### Additional Notes

- Serial Number: 2PLC05337CBB16169
- Manufacturer: Celtic Pride Manufacturing
- Location: Alberta, Canada
- Applications: Suitable for well interventions including cleanouts, stimulations, milling, and extended-reach operations (up to 6,000 meters).