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ENERGY SERVICES LTD.

PEOPLE...

SERVICE...

INNOVATION

Coiled Tubing / N₂ Combination Unit



CORPORATE OFFICE

Calgary

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FIELD OFFICES

Grande Prairie, AB

Red Deer, AB

Brooks, AB

Denver, CO

Mt. Pleasant, MI

- **These self-contained units are more economical for shallower clean outs and long term projects and require fewer personnel on location.**

- **These innovative units employ flameless technology. The nitrogen is vaporized through a self-contained, non-fired heat exchanger, making the units safer and more economical.**



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Specifications

CT/N₂ Combination Unit

Patent Pending



Truck Kenworth 8X4 (Tandem)

Crane

Knuckle Joint Reach 39 ft (12.19 m)
 Stabilizer Fixed
 Max Lift 10,527 lbs (4,774 kgs)

Injector

Hitec RT-25
 Pull 25,000 lbs (11,337 kgs)
 Snubbing 25,000 lbs (11,337 kgs)
 Dia. of tubing injector will handle 1/4" increments to 2"
 Outside Chain 120-3
 Inside Roller Chain 60-3
 No. of Skate Cylinders (inside) 2 Pair
 Chain Tension (outside) Spring
 Crash Cage Standard
 Guide Arch 60" (152 cm) Radius
 Hydraulic Leveling
 Bail Arm Standard
 Velocity Fuse on Inside Skate Circuit
 Mechanical Snubbing Locks on Outside Chain Tension
 Motion Control and Lock Valve
 Failsafe Brakes on Injector Drive Motors
 Stripper Pac Off (Vanoil Hydraulic Actuated) 5000 psi

Power Pack Hydraulic Power taken from Daewoo Deck Engine

Hose Reel Internally Ported Swivels for Injector Drive

Functions 50' (15 m) Hoses

Tubing Reel

Reel 106" OD x 61" Core x 48" Wide
 Capacity Tubing 24,200 ft (7,376 m) 1"
 Capacity Tubing 14,900 ft (4,541 m) 1 1/4"
 Capacity Tubing 10,400 ft (3,169 m) 1 1/2"
 Drive Type Hydraulic Motor & Chain
 Brake Pneumatic Failsafe
 Spooler System Transverse Mount
 Circulating Iron 6,000 psi
 Shaft Double Ported

Safety Features

All Operations Controlled from Console in Control Cab
 Safety Guard over Chain Drive
 50' (15 m) Remote for H₂S Operation
 Two Fire Extinguishers per Tandem Bodyjob

Rotating Joint

Through Bore Size 2"
 NACE Spec MR-01-75
 Maximum Working Pressure 10,000 psi
 Reel Iron Size (1002) 2"

Soap Tank

Size 360 Gallons
 Exhaust Heat for Winter Protection

Soap Pump

Flow 5 GPM
 Pressure 3,000 psi

Methanol Tank Size 3 Gallons

Control Console

House in Control Cabin
 Dual Scale Gauges
 All Functions of the Unit can be Controlled from Console
 Lights for Working in Low Light Conditions

Electronic

Power Source 12 Volts
 Electronic String Weight
 Circulating Pressure
 Wellhead Pressure
 Tubing Speed
 Tubing Depth

Stripper

Vanoil 5,000 psi (34,000 Kpa)
 Hydraulic Actuated

BOP's

Vanoil 5,000 psi (34,000 Kpa)
 3 1/16" Combo (Blind Shear & Tubing Slip)
 Control from the Control Console or by Remote

Data Acquisition

TESC Real Time
 Display Logging

Drives

All Drive Chains, Spooler Chains, Hydraulic Fans, Engine Accessory Belts, etc. come Complete with Safety Guards

Lights

The CTU is Fully Equipped with Fixed and Moveable Flood Lights for Working in Low Light Conditions

40scm per min deck mounted Flameless N₂ skid

Pumping

Max Pressure 5000 psi
 Max Flow 40m³/min
 Cold End
 Boost Pump 1.5" x 2" x 6"
 Valves Autoclave and HIP Pipe and valves

Heat Sources

Exhaust Air Glycol Exchanger
 Excess Horse Power Dynamic Heat Generator
 Water Jacket Heat Mixing Manifold

Power Transfer

C-012 Cat 475 HP from CT Unit
 Belt drive off CT unit Transfer Case

Controls

Flow Control Joystick
 Heat Controls Manual Valve
 Boost Pump Control Joystick

Digital N₂ pumping display
 Digital Rate Meter

Pop Off Valve for over Pressure
 Manual gauged glycol temp display
 Manual gauged discharge temp for N₂

Pup Trailer

Pintle Hitch hookup
 3000 gal / 7700 m³ N₂ Liquid
 Air Brakes



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