

Fluid & Nitrogen Pumping

Our qualified team provides our clients with a diverse group of pumping services & top-class pumping stimulation services. We're equipped with years of experience, custom-designed equipment, & tried-and-true products.

Fluid Pumping

- ✔ Pump Down Support
- ✔ Diagnostic Fracture Injection Testing (DFIT)
- ✔ Step Rate Injection Testing (SRIT)
- ✔ Acid pumping

Pump Down Support

Our pump down spread units are the only high pressure / high volume units with simultaneous backside support on the market, providing the horsepower of a frac pump (2500 HHP) & the precision of a low-volume pressure truck with our LVHP jet pump.

Pump down spread specifications:

- ✔ Rates redundant up to 1.5m³/min at 70 mPa
- ✔ As low as 0.25l/min at 103 mPa
- ✔ Complete sling restraint systems
- ✔ 2" & 3" 1502 Integral 15,000 Psi iron
- ✔ On-the-fly chemical systems with heated trailer
- ✔ Live link data watching capability (Cell service Required)



- ✔ Fully integrated data acquisition system
 - Instantaneous value recording & graphing
 - Coriolis style flow meters accurate down to 5 ml
 - Real-time data streaming – remote well monitoring
 - Full redundancy to eliminate data failures
- ✔ On board, traceable chemical injection system
 - Coriolis metered, operator controlled
 - Allows for accurate placement of treatment chemicals
 - Heated support unit contains full array of gels, friction, reducers & methanol
 - Suction piping injection & batch mixing capabilities
- ✔ Fully redundant suction piping
 - Eliminates down time due to failures
 - Designed with gear pump inline to allow for easy fluid
 - Transfer & removal of treating iron under vacuum
 - Eliminates third party charges
 - Dot compliant chemical delivery

CORPORATE HEAD OFFICE: 65007 TWP RD 714, GRANDE PRAIRIE, AB, T8W 5E7 T 780.513.3400 F 780.532.9266

CALGARY SALES OFFICE: SUITE 3300 605 – 5TH AVE SW T2P 3H5 T 403.264.3010 F 403.693.0093

BOREAL

Pumping

Fluid Pumpers

- ❖ 600 Total horsepower output
 - (1) Cummins ISX 600 power supply rated 600 bhp
- ❖ 600 Total hydraulic horsepower output from 2 pumps
 - (1) Gardner Denver 10 & 15k (103 mpa) pump 50 hhp
 - (1) SPM TWS 600 10 & 15k (103 mpa) triplex pump rated at 600 hhp with 550 bhp input
- ❖ 8 m³ Dual Compartment Spec Tank
 - Dot compliant chemical delivery



Nitrogen Pumpers

- ❖ 600 Total Horsepower Output
 - (1) Cummins ISX 600 power supply rated 600 bhp
- ❖ 250 Total hydraulic horsepower output
 - (1) Nov NP-200 10k (69 mpa) triplex pump rated at 250 hhp with 250 bhp input
- ❖ Fully integrated data acquisition system
 - Instantaneous value recording & graphing
 - Real-time data streaming — remote well monitoring
 - Full redundancy to eliminate data failures
 - Flameless glycol heat recovery system
 - 7500 scm cryogenic spec tank

Delivery. Well Ahead.™



Acid Pumpers

- ❖ Equipped with an 8 m³ fiberglass tank (5 m³ + 3 m³ compartment)
- ❖ Capable of pumping 0.15 -1100 liters per minute at up to 15,000 Psi
- ❖ Capable of legally hauling up to 1 m³ of acid
- ❖ Control cabin allows for monitoring of engine diagnostics, fluid rates & pressures by providing PDF & CSV reporting to our clients
- ❖ Equipped with a low-volume-high-pressure jet pump, capable of producing rates as low as 0.15l/min at 15,000 Psi



- ❖ Fully integrated data acquisition system
 - Instantaneous value recording & graphing

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BONNETTS
Well-Intel

REDNECKZ
Wireline

BOREAL
Pumping

SILVERLINE
Swabbing

BONNETTS
Wireline

BOREAL
E-line

BONNETTS

Energy Corp

Twin Fluid Pumpers



These state of the art units set the new standard in North America, offering the highest safety and performance on the market.

Flow rates from 1-3000 liters per minute at pressures up to 103 mpa. 3000 lpm @ 14 mpa — 770 lpm @ 103 mpa.

Features:

- ▣ 2100 Total horsepower output from three engines
 - (1) Cat C9 auxiliary power supply rated 400 bhp
 - (2) Cat C18 direct drive prime movers rated 1700 bhp



Delivery. Well Ahead.™

- ▣ 1800 Total hydraulic horsepower output from 3 pumps
 - (1) Gardner Denver 15k (103 mpa) jet pump 100 hhp
 - (2) SPM QWS 1000 15k (103 mpa) quintuplex pumps rated at 1000 hhp each with 850 bhp input totaling 1700 hhp
- ▣ Fully integrated data acquisition system
 - Instantaneous value recording & graphing
 - Coriolis style flow meters accurate down to 5 ml
 - Real-time data streaming — remote well monitoring
 - Full redundancy to eliminate data failures



- ▣ On board, traceable chemical injection system
 - Coriolis metered, operator controlled
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