





SERVICE RIGS SINGLE/DOUBLE

Service Rigs 1 & 2

- 2008 CCM mobile free standing rig
- 500 HP 60 series Detroit
- 72' Derrick (21.9m) 140,000 lbs/62 300 DaN hook load
- RG 38" X 8" with disc brake & sand line drum
- 22 Gallon Class II BOP system
- 60.3 mm 70 mm handling systems & up
- 24.4 mm rod handling equipment up to 25.1 mm rod handling equipment

Pump Truck

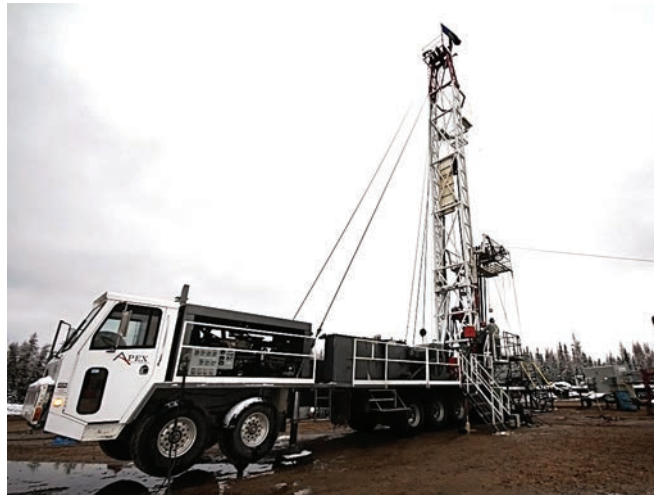
- Western Star 500 HP
- E-300 horizontal triplex 5" X 6" (5000psi)
- 5 valve manifold system
- 28m³ dual compartment tank
- Integrated degasser & trough
- Portable manlift system for tank entry

Equipment Truck

- Equipment truck is enclosed
- BOP slide system
- Testing stump

Doghouse

- 30' doghouse with integrated 30 kW generator





SERVICE RIG DOUBLE/TRIPLE

Service Rig 3

- 2010 CBI design mobile free standing rig Double/Triple (Rig 3)
- Class III accumulator
- 105' (32m) mast with 200,000 lbs/62,300 DaN hook load
- 42" x 10" CBI design drawworks & disc assist
- Load monitoring system on rear beam, front beam & outrigger load points
- Mobility for period one weights
- Maximum static hook load 200,000 lbs 6 line 150,000 lbs 4 line

Pump Truck

- Western Star/Tri Drive 450 HP Mercedes
- SJ Petro 5000psi pump & manifold system
- Heated cabin over pump & controls with 2 access doors & roof venting
- 32m³ tank with trough, degasser & external tank gauge
- Flo Pro 9100 intrinsically safe flow rate meter

Equipment Truck

- Enclosed Western Star/Tri Drive 450 HP Mercedes
- 25' heated & lit enclosure
- BOP slide & testing stump
- Workbench with grinder & vise

Doghouse

- 40' doghouse with washroom & workbench
- Class III system with 55 kW generator
- BOP control system data
- Reservoir capacity 83 USG (314 L) & accumulator quantity 4 x 11 USG (41.6 L)
- Total AEUB accumulator volume 44 USG (166.5 L)
- Accumulator pre-charge 1000psi (7000 kPa)
- Maximum accumulator pressure 3000psi (21000 kPa)
- Recommended manifold pressure 1500psi (10500 kPa)
- CAT 550 triplex pump output 4.5 US GPM (17 LPM)
- Remote hydraulic over hydraulic
- N2 backup 2 x 337 ft² (58 L) cylinders @2200psi (15400 kPa)





SERVICE RIGS DOUBLE/TRIPLE

Service Rig 4

- 2012 tandem Steer/Tri Drive Western Star mobile free standing double/triple
- Class III accumulator
- 105' mast with 200,000 lbs hook load
- Maximum static hook load 200,000 lbs 6 line 150,000 4 line
- F.A.S.T. 450 42" x 10" drawworks & disc assist
- Load monitoring system on rear beam, front beam & outrigger load points

Pump Truck

- Western Star/Tri Drive 450 HP Mercedes
- SJ Petro 5000psi pump & manifold system
- Heated cabin over pump & controls with 2 access doors & roof venting
- 32m³ tank with trough, degasser & external tank gauge
- Flo Pro 9100 intrinsically safe flow rate meter

Equipment Truck

- Enclosed Western Star/Tri Drive 450 HP Mercedes
- 25' heated & lit enclosure
- BOP slide & testing stump
- Workbench with grinder & vise

Doghouse

- 40' doghouse with washroom & workbench
- Class III system with 55 kW generator
- BOP control system data
- Reservoir capacity 83 USG (314 L) & accumulator quantity 4 x 11 USG (41.6 L)
- Total AEUB accumulator volume 44 USG (166.5 L)
- Accumulator pre-charge 1000psi (7000 kPa)
- Maximum accumulator pressure 3000psi (21000 kPa)
- Recommended manifold pressure 1500psi (10500 kPa)
- CAT 550 triplex pump output 4.5 US GPM (17 LPM)
- Remote hydraulic over hydraulic
- N2 backup 2 x 337 ft² (58 L) cylinders @2200psi (15400 kPa)





SERVICE RIG SINGLE/DOUBLE

Service Rig 5

- 2001 Irontech free standing single service rig
- Undergoing overhaul/refurbishment 2015
- 38" x 10" mainland draw works
- KSM hydraulic outriggers
- 74' ground to crown
- 120,000 lbs hook load/53,400 DaN hook load
- Class II system
- 50 Series Detroit

Equipment Truck

- 2000 Mack
- Single Steer/Tandem Drive
- Testing stump
- Open style

Pump Truck

- Pump truck
- Carrier style 3000psi pump & tank

Doghouse

- 40' doghouse
- 55 kW generator
- Washroom & workbench





SERVICE RIG

Service Rig 6

- 2001 Mainland M360 50 Series free standing single service rig
- Complete overhaul/refurbishment 2014
- 38" x 10" Mainland drawworks
- KSM hydraulic outriggers
- 72' ground to crown
- 120,000 lbs/53,400 DaN hook load
- Class II system
- 50 Series Detroit

Equipment Truck/Picker Truck

- 2005 sterling single Steer/Tandem Drive
- Open style fully stocked with all tools necessary
- 8 ton picker mounted at rear

Pump Truck

- 346 HP 3" X 5" Gardner Denver pump
- Carrier Style 3000psi pump & tank

Doghouse

- 40' doghouse
- 55 kW generator
- Washroom & workbench





ROD RIGS

Rig Applications

- Conventional sucker rods intrusions
- Fishing rod strings
- Changing PCP rotors
- Killing wells
- Changing wellhead ports
- Changing stuffing boxes
- Pulling & running rod strings
- Changing insert pumps
- Flushing production wells
- Changing drive heads

Rod Rigs 2,3,4,5,6,7,8,9,10

- Western Star, Single Steer/Tri Drive truck
- 72' telescopic mast, capable of pulling & hanging 2 rods
- Conventional draw works, right angle drive driven & conventional brake handle
- 50,000 lbs hook load
- Meets 75% road ban
- Separate Western Star pressure truck with tandem drive

Pump Truck *Completely self contained unit*

- Western Star, Single Steer/Tri Drive truck
- 12m³, 2 compartment tank
- 3" x 5" Gardner Denver pump

Doghouse

- Norbert Mfg built doghouse
- Change room c/w fridge, microwave
- 20 kW generator with all RV plugs
- Workbench in rear fully stocked with tools





FLUSHBY/ROD INJECTOR

Rig Applications

- Servicing wells with continuous rod, pulling/running
- Servicing wells with conventional rod
- Flushing wells
- Well head maintenance

Flushby/Rod Injector 1

- 2014 Western Star Single Steer/Tri Drive
- Vertical or slant well capable
- Permanently mounted rod injector on hydraulic arms in derrick
- 2 - 10m³ compartment tanks
- Gardner Denver 3" x 5" triplex pump (5000psi max pressure)
- 2 - Working winches
- 1 - PL25 Pullmaster main winch
- Picker truck for slant well applications
- Doghouse
- Washroom
- Genset

ROD INJECTOR Specifications

- 40,000 lbs pull
- Weight 3600 lbs
- Speed 28 m/min low, 56 m/min high
- 2 x MSE 11-1 Poclain motors
- 5 gallon accumulator back up
- At 3000psi skate pressure, max compression force of 200,000 lbs
- Max. force per ball bearing 666 lbs
- Max. force per steel die 4000 lbs
- 6" safety brake with 80,000 lbs cylinder
- Swivel arch head mounted to the injector

Picker Truck

- 8 ton picker
- 40' hi-boy trailer
- 2 working reel





FLUSHBY

Rig Applications

- Conventional sucker rods intrusions
- Fishing rod strings
- Changing PCP rotors
- Killing wells
- Changing wellhead ports
- Changing stuffing boxes
- Pulling & running rod strings
- Changing insert pumps
- Flushing production wells
- Changing driveheads

Flushby/Rig 1

- Western Star, Single Steer/Tri-Drive truck
- 72' Telescopic mast, capable of pulling & hanging 2 rods
- PL-25 hydraulic pullmaster lunch
- 50,000 lbs hook load
- Meets 75% road ban
- 3" x 5" Gardner Denver pump
- 12m³ 2 compartment tank
- Doghouse trailer with washroom
- 20 kW generator

Doghouse

- Norbert Mfg built doghouse
- Change room c/w fridge & microwave
- 20 kW generator with all RV plugs
- Workbench in rear, fully stocked with tools





HOT OILERS 5-1/2MM BTU 10K PUMP

Functions:

- Fluid heating (oil or water, C-rings or tanks)
- Hot oiling
- Chemical pumping
- Pressure pumping (back pressure on annulus for fracs etc.)
- Injection work

Specifications:

- 2012 Western Star single steer/Tri-drive 600 HP Detroit Series engine
- Built in fire suppression
- 5-1/2 mm BTU burner
- 2 speed drop box for greater rate control
- 1.2m³ /min
- 200' 1502 line pipe integral certified 2" line pipe (1.78" I.D.) with 602 unions rated for 10,000psi
- 100' of integral certified 1" 10,000psi rated working pressure hose on a hydraulic reel
- 2m³ fuel tank/6m³ product/2m³ methanol tank
- Plumbed to batch chemical for coil tubing jobs
- Full data logging capabilities

Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





HOT OILERS 8MM BTU 5K PUMP

Functions:

- Fluid heating (oil or water, C-rings or tanks)
- Hot oiling
- Chemical pumping
- Pressure pumping (back pressure on annulus for Fracs etc.)
- Injection work

Specifications:

- 2012 Western Star Tandem Axle with a Cummins ISX 550 HP engine
- Built-in fire suppression direct to the burners
- One 8 mm BTU burner
- Three compartment 10m³ coded TC412 tank exceeds DOTTDG specifications
- Rated tank carries solvents & other fluids
- Two 3m³ compartment and one 4m³ compartment
- 132' of integral certified 1" 6000psi rated working pressure hose on a hydraulic reel
- 120' of 1 1/4 line pipe with unions rated for 5000psi
- 3" x 2" Durco hydraulically driven centrifugal pump to feed the burners
- 4" gear pump for loading, unloading & transferring fluids
- 3" x 5" Gardner Denver 5000psi rated working pressure triplex pump
- Containment trays are included with the truck for the line pipe

Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





SUPER HEATER/HOT OILER 16MM BTU

Functions:

- Diesel Powered
- Super heating/fluid heating (pits or tanks)
- Hot oiling
- Chemical pumping
- Pressure pumping (back pressure on annulus for fracs, etc.)
- Injection work

Specifications:

- 2012 Western Star 4900SB Tandem/Tridem with a Cummins ISX 550 HP engine
- Diesel powered
- 11.6 mm BTU burner & 5.2 mm BTU burner
- Burners fired individually, in parallel or in series output of 16.8 mm BTU's
- 3 compartment 10m³ coded TC412 tank that exceeds all DOT TDG specifications
- Rated tank carries diesel, solvents & other fluids
- Two 3m³ & one 4m³ compartments
- 132' of integral certified 1" 5000psi rated working pressure hose on a hydraulic reel
- 80' of integral certified 2" line pipe (1.78" I.D.) with 602 unions rated for 5000psi
- 3" x 2" Durco hydraulically driven centrifugal pump feeding burners
- 4" gear pump for loading, unloading & transferring fluids
- 5" x 3" Gardner Denver 5000psi

Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





HOT OILERS/SUPER HEATER 16MM BTU 5K PUMP

Functions:

- Diesel Powered
- Super heating/fluid heating (pits or tanks)
- Hot oiling
- Chemical pumping
- Pressure pumping (back pressure on annulus for fracs, etc.)
- Injection work

Specifications:

- 2012 Western Star 4900SB Tandem/Tridem with a Cummins ISX 550 HP engine
- Diesel powered
- 11.6 mm BTU burner & 5.2 mm BTU burner
- Burners fired individually, in parallel or in series output of 16.8 mm BTU's
- Three compartment 10m³ coded TC412 tank that exceeds all DOT TDG specifications
- Rated tank carries diesel, solvents & other fluids
- Two 3m³ & one 4m³ compartments
- 132' of integral certified 1" 5000psi rated working pressure hose on a hydraulic reel
- 80' of integral certified 2" line pipe (1.78" I.D.) with 602 unions rated for 5000psi
- 3" x 2" Durco hydraulically driven centrifugal pump feeding burners
- 4" gear pump for loading, unloading & transferring fluids
- 5" x 3" Gardner Denver 5000psi

Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





ULTRA HEATER 80MM BTU

Functions:

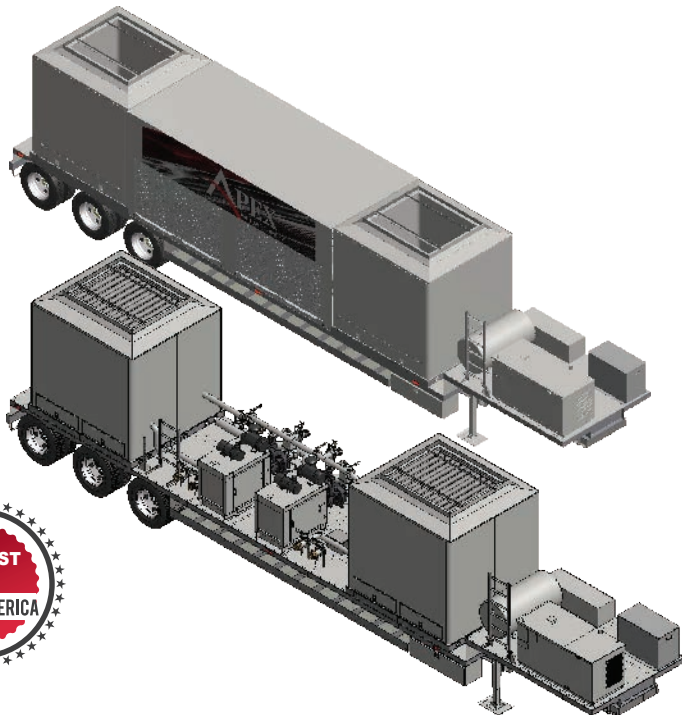
- Heating water in tanks
- Heating water in pits/ponds
- Heating water in C-rings
- Heat other fluids through coil

Specifications:

- Propane or natural gas (propane equivalent)
- Two 40 mm BTU burners
- Direct spark ignition
- Propane or natural gas fired
- Two pioneer self-priming pumps
- Through twin system can maintain heating operations if one pump were to go down
- CSA approved
- 7m³ a minute at 40 degrees delta
- High temp shut downs
- Low flow shut downs
- 35 kW generator set
- Truck with sleeper

Unit Savings include:

50% less accomodation
less crew travel time
less crew truck required
less manpower





PRESSURE SERVICES PRESSURE TRUCK 3K

Functions:

- Pressure pumping
- Pressure testing small equipment/valves
- Chemical & acid pumping

Specifications:

- Ton 1000psi
- Pump rate of 100 L/min, with a 3m³ holding tank
- Stainless steel
- 1.5 m³ each tank to make up 3m³
- Data acquisition system



PRESSURE SERVICES SKID MOUNTED QUINPLEX PUMPER

Functions:

- Long term disposal & pressure pumping

Specifications:

- QSK 15 Cummins engine rated at 550 HP
- 9 speed Easton gear box
- Weatherford QWS -550 pump equipped with 4.5" pistons rated to 5000psi
- Rate to 4m³/min
- Gardener Denver boost pump
- Pulsation dampers on both suction and discharge side
- Fully equipped doghouse trailer for operators & spare parts storage
- Doghouse also includes washroom, work lights & 30 kW Genset eliminating the need for extra third party equipment
- Fully equipped crew change trucks for 24 hour operations





PRESSURE SERVICES PRESSURE TRUCK 10K/15K

Functions:

- Pressure pumping
- Fluid pumping for coil tubing, mixing chemicals on the fly
- Acid pumping
- Displace frac balls & hold annulus pressure simultaneously
- Pressure testing including wellheads & BOPs

Specifications:

- 2012 Western Star Tri-Axle with a Cummins isx 550 HP engine
- ESP shut down at the operator's panel
- 10K high rate pump up to 1000 liters per minute pressure allowing 15K high
- Pumps 1000 LPM @ 15K
- Two compartment 10m³ coded TC412 tank exceeds all DOT TDG specifications
- Rated tank carries diesel, solvents
- One 3m³ & one 7m³ compartments
- 100' of integral certified 1" 10,000psi rated working pressure hose on a hydraulic reel
- 160' of 2" line pipe with unions rated for 15,000psi
- Two 4" gear pump for loading, unloading & transferring fluids
- 10,000psi/15,000psi rated working pressure triplex pumps pressure pumping applications on wells
- Pop valve is plumbed back to the tank
- Inline check valve off the pressure end of the pump
- Containment trays included with the truck for the line pipe



Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





PRESSURE SERVICES TWIN TRAILER MOUNTED 600HP FLUID PUMPER

Functions:

- Pressure pumping
- Fluid pumping for coil tubing including mixing chemicals on the fly
- Acid pumping
- Displace frac balls & hold annulus pressure simultaneously
- Pressure testing including wellheads and BOP testing

Specifications:

- True twin totally independent power & hydraulic systems
- Two QSK 15 Cummins engines rated at 630 HP each
- Two 6000 series Allison automatic transmissions
- Two Eaton two speed gearboxes for greater rate control
- Two Gardener Denver boost pumps
- Two Gardener Denver GD-600 compact pumps outfitted with 3" plungers
- 15,000psi capable
- Rate 1m³/min on each pump 2m³/min combined
- Two 2m³ batch tanks with paddles for mixing
- 60 meters of certified 1502 2" treating iron
- Climate controlled operators cabin
- Fully equipped crew change trucks for 24 hour operations

Data Acquisition System:

- Full data acquisition system with the capability to print graphs email directly from site
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





SUPER HEATER 22MM BTU

Functions:

- Diesel powered
- Super heating/fluid heating (pits or tanks)
- Capable of heating oil or water
- Fluid transfer 2.5m³ per min
- Two 11.6 mm BTU burner
- Two 4" X 3" Durco hydraulically driven centrifugal pumps to feed the burners
- Separate power supply (John Deere power tech plus diesel 275 HP 756 lb - ft)

Specifications:

- 2012 Western Star Tandem Axle Tractor & Tri-Axle Trailer
- Diesel powered
- Two 11.6 mm BTU burner
- ESP shut down at the operator's panel
- Built-in fire suppression direct to the burners
- Burners fired individually in a parallel or in series
- Three compartment 17m³ coded TC412 tank exceeds DOTTDG specifications
- 10m³ of diesel to last for 24hrs of heating 2m³ compartment for slop
- 2m³ compartment for methanol
- 4" gear pump for loading, unloading & transferring fluids

Data Acquisition System:

- TCB fluid management system
- Pump rate
- Pump pressure
- Total volume pumped
- Inlet & discharge temperature
- Inlet & discharge pressure
- Engine temperature
- Engine RPM
- Engine oil pressure & temperature
- Hydraulic oil pressure & temperature





SUPER HEATER 35MM BTU

Functions:

- Heating water in tanks
- Heating water in pits/ponds
- Heating water in C-rings
- Heat other fluids through coil

Specifications:

Trailer specifications:

- Tri-Axle Trailer
- Propane or natural gas (propane equivalent)
- Unit is mounted on a heavy duty drop deck Tri-Axle trailer
- 75,000 LB Watson Chalin air ride suspension

Burner Specifications:

- Rush LPG fired updraft type burner
- Conversion for natural gas operations
- 35,000,000 BTU input
- Direct spark ignition
- Stainless steel burner tips

Fuel Storage Tank Specifications:

- 2865 gallon LPG tank DOT MC331 with CRN
- Shut-off valves & in-line filters located on driver's side for easy access & maintenance
- Electric driven blackmer propane pump

Control Panel Specifications:

- Watlow Series 93 temperature controller to monitor outlet temperature & high temperature shutdown
- Two low flow safety switches to shut-down burner if water flow is lost
- Work light switches including indicator lights





TANK TRUCKS FLUID TANKERS

Functions:

- Hauling water
- Hauling produced water
- Hauling chemical
- Hauling kill fluid

Specifications:

- 44m³ stainless steel sealed units with scrubbers
- 150' of certified load hose
- Titan load gauges
- 24 Hour crews





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SERVICE RIGS

ROD RIGS

SUPER HEATERS

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