



**BIG
EAGLE**

NITROGEN SERVICES

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Big Eagle provides a specially constructed fleet of state-of-the-art flameless and direct fired nitrogen pumping units designed for process, pipeline and downhole applications. These are operated and managed by some of the most experienced personnel in the field.

Each Big Eagle nitrogen pump is equipped with fully computerized control systems providing precise pumping operations with up to the second readouts on pressure, temperature, rate and product levels.

By maintaining a fleet of direct fired and flameless nitrogen pump units, Big Eagle can provide effective, safe and efficient solutions customized to meet our customers' needs on any size project.

BENEFITS OF FLAMELESS NITROGEN TRUCKS

- Flameless heat source eliminates potential ignition source and harmful emissions. For use in environments where elimination of an open flame is preferred
- Ability to deliver rates from 2-75+ m³ per minute
- Temperature at discharge -20 to +85 degrees Celsius
- Pressure capable up to 10,000psi
- Larger product carrying capacity than traditional body mounted units (7,300m³) with the capability of traveling during road bans with a reduced product load
- Control booth allows operators optimal and unobstructed control

BENEFITS OF DIRECT FIRED NITROGEN TRUCKS

- Ideal solution for projects that require large product volumes, high temperatures or high rates
- Ability to deliver rates from 20-300+ m³ per minute
- Temperature at discharge -30 to +250 degrees Celsius
- Pressure capable up to 10,000psi
- Control booth allows operators optimal and unobstructed control



FLAMELESS NITROGEN UNIT

WELL SERVICES

- Well displacements
- Well clean-out
- Pressure services
- Under-balanced drilling
- Mill outs
- Isolation tests
- Differentially stuck strings
- Coil tubing applications
- Coal bed methane stimulation
- Conventional stimulation
- Nitrified fluid treatments

NITROGEN TRANSPORT

Big Eagle provides a fleet of Nitrogen Transport units specifically designed to support our various process, pipeline and down-hole pumping operations. All units are designed with pressure build, or hydraulic pump off capabilities, making them the perfect compliment to our Nitrogen fleet.



TRI-AXLE NITROGEN TRANSPORTER

- Carries 10,000scm of product
- Compact design for added maneuverability in tight locations
- Ideal unit for small volume projects



TRACTOR TRAILER NITROGEN TRANSPORTER

- Carries 17,000+ scm of product
- Ideal unit for large volume projects

PURGING AND PLANT SHUTDOWNS

Big Eagle has a specialized team of professionals dedicated to process and pipeline nitrogen applications. Whether it is a small vessel purge or a complete plant turnaround, Big Eagle's Process and Pipeline Group can put together a cost effective solution for any project. We have the people, equipment and expertise necessary to tackle any project, regardless of size, in a manner that is safe, efficient, cost effective and timely.

We offer Nitrogen Pumping units with flameless heat recovery for use in environments where open flame methods are not appropriate. These Nitrogen units are designed specifically for the servicing of refineries, chemical plants, pipelines, and other ideal situations where ignitable product is involved.

Big Eagle's specialized team is also experienced in the accelerated cool down of sulphur beds. We have successfully completed many projects of this caliber throughout western Canada, keeping projects as cost efficient as possible for our clients. Utilizing our state-of-the-art flameless Nitrogen pumpers, in combination with our operational expertise, Big Eagle works hand-in-hand with clients to complete projects as safely, efficiently and timely as possible.

PROCESS AND PIPELINE SERVICES

- Line dewatering
- Accelerated cool downs
- Pipeline pigging
- Pipe freezing
- Product displacement/transfer
- Line commissioning
- Oxygen displacement
- Hot nitrogen drying
- Pneumatic testing
- Pipeline abandonment
- Plant shutdowns



FLAMELESS NITROGEN UNIT ON SITE



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