



SMVU - REFINERY NITROGEN SERVICES

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A USADEBUSK Company



Steam Driven Nitrogen for Refinery Applications

- Used to purge LEL's from lines and vessels for safe inspection and repair
- Uses onsite steam to vaporize liquid nitrogen for continuous use in refinery operations
- No operational disruption that can occur with engine-driven nitrogen pumpers
- Powered strictly by onsite generated steam
- Does not require diesel, gasoline or propane to operate - only onsite generated steam
- Eliminates diesel fuel consumption by up to 60 gallons per hour
- Unit is self sufficient - does not require a Booster Pump
- Operates on wide range of steam quality
- Zero Carbon Emissions
- No Engine to Fail
- Excellent for Weather Event Disruptions
- Eliminate Equipment Availability Risk
- SMVUs are available to remain onsite long-term
- Effective for Hurricanes, Ice Storms, & Power Failures
- Multiple units can be combined to increase output.
- Components are skid mounted for use in tight locations
- Flow rates to 1500 SCFM @ 225 PSI

Why Nitro-Lift?

We have been providing unparalleled nitrogen services for over 20 years

- **1,700,000+** Runtime Hours Operating Nitrogen Equipment
- **200,000+** miles of pipelines purged and tested with nitrogen
- **22,000+** wells successfully de-watered or lifted in conventional and unconventional plays
- **500+** Master Service Agreements
- We pioneered the use of membrane nitrogen in the oil & gas industry in the Barnett Shale in 2006.
- We have patented equipment and processes in the United States, Canada and Mexico
- Coverage area includes the lower 48 states, Alaska and the Gulf of Mexico

Notable Projects

- Nitro-Lift conducted the nitrogen “purge & pack” on the Dakota Access pipeline spanning 1,700 miles from the Canadian border to Nederland Texas with generated nitrogen.
- Nitro-Lift conducted 24 hour nitrogen operations for a major operator in the Gulf of Mexico for hydrate remediation that spanned several weeks.
- Nitro-Lift conducted 24 hour artificial gas lift operations for Energy XXI to revive a gas stranded offshore platform.