



## NITROGEN SERVICES



NITROGEN  
SERVICES



**CETCO**  
**OILFIELD**  
**SERVICES**



## N<sub>2</sub> On Demand

### Nitrogen Applications for the Oil & Gas, Pipeline, Shipping, Petrochemical and Refinery Industries.

- Acidizing
- Blanketing
- Cleaning
- Cool Downs
- Dewatering
- Drying
- Drill Stem Testing
- Fracturing
- Inerting
- Jetting
- Perforating
- Pressure Testing
- Product Displacement
- Project Consulting
- Purging
- Stable Foam
- Well Displacement

CETCO Oilfield Services Nitrogen Division is a state-of-the-art transportation and implementation department that helps energy producers and service companies significantly enhance productivity. This versatile Division is also capable of repairing or maintaining transportation pipelines and support components, and improving turnaround times in all types of plants and tank farms. Utilizing the latest high-tech tools and techniques, including hot or cold nitrogen for purging, degassing, pigging, dewatering, cooling and heating, we are able to effectively answer the needs of the oil and gas, pipeline, shipping, petrochemical and refining industries.

CETCO's field technicians are some of the most knowledgeable professionals in the business, averaging 14-years of experience in nitrogen pumping services. Our commitment to every client begins long before and ends long after every job. In order to achieve the maximum result we preplan, plan and post-plan each project to ensure efficiency. Leading this comprehensive service is our extensive fleet of pumping units, capable of handling up to 1 MMscf per hour and pressures of 15,000 psi. These space-saving units can be custom fit to each project and are available as skid mounted for offshore use, truck mounted for compact land operations and trailer mounted for mobile applications. Supporting that equipment are a fleet of bulk mobile transports ranging in size from 4,000 to 7,000 gallons, skid mounted portable storage tanks and expert technicians. All of these components ensure our Nitrogen Division has what it takes to get each job done safely on time and on budget.



# NITROGEN SERVICES



### Upstream

CETCO's upstream nitrogen service offers oil and gas companies the ability to sustain safe and productive work environments during exploration, recovery and production of crude oil and natural gas. As a non-reactive, non-flammable gas, nitrogen allows us to safely purge dangerous, explosive vapors and corrosive elements from surface production/processing equipment as well as displacing wells. Nitrogen, which makes up 78% of the air we breathe, effectively clears pipelines and other enclosures of unsafe conditions by flushing the atmosphere with an intricate pump system; converting Liquid Nitrogen into its gaseous state under pressure. This time-tested process helps ensure maintenance standards, maximizes worker safety and enhances well productivity.



### Midstream

CETCO's midstream nitrogen capabilities effectively remove unwanted obstacles during the processing, storing, marketing and transporting of crude oil, natural gas, liquefied natural gas (LNG) and other products. As one of the driest elements on earth, nitrogen allows us to blanket products during transport on ships and barges to reduce moisture, oxygen and explosive levels, preventing evaporation and monetary loss. When teamed with CETCO Pipeline Services, we effectively push the industry's intelligent pigs at controlled and stable speeds. While pigging on-and-offshore pipelines, our state-of-the-art nitrogen processes eliminate potential hazards and keep the lines moving. Most importantly, every job is managed by a team of our expert technicians, trained and qualified in Veriforce, NCCER, OQSG and DCP.



### Downstream

CETCO's downstream nitrogen sector enables oil refineries, petrochemical plants, petroleum retail outlets and natural gas distribution companies to safely bring thousands of vital products to market. From gasoline, diesel, jet fuel, biofuel, natural gas, lubricants, synthetic rubbers, plastics and more, we help each item become commercially viable. Our specialized procedures utilize hot or cold nitrogen to purge, degass, cool or heat the process equipment for refineries and chemical plants before and during maintenance or repairs, ensuring maximum efficiency. This crucial process also helps regulate temperature and eliminates elements that can be extremely hazardous to final preparation. As a non-reactive, nonflammable gas, nitrogen allows us to create a safer, more efficient atmosphere for everyone and guarantees peace of mind from start to finish.



WATER TREATMENT | PIPELINE | WELL TESTING | WASTEWATER | RENTALS | NITROGEN | COILED TUBING



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