



NITRIFIED WELLBORE FREEZING

Introducing Titanium's innovative solution: Nitrified Freezing of the wellbore using liquid nitrogen. This groundbreaking method employs the powerful properties of nitrogen to enhance wellbore operations.

Nitrified Freezing involves the controlled application of liquid nitrogen to create a frozen barrier within the wellbore. This process is highly effective for various applications, including wellbore isolation, controlling unwanted fluid influx, and facilitating well interventions.

At Titanium Energy Services, we bring cutting-edge technologies to the forefront of wellbore management. Our Nitrified Freezing solution using liquid nitrogen ensures precision, safety, and versatility in various wellbore applications. Trust Titanium for innovative solutions that elevate the efficiency and reliability of your well operations.



Applications:

**Wellbore Isolation, Kick Prevention,
Fluid Loss Control**

Key Benefits:

Precision Control: *Liquid nitrogen allows for precise temperature control, enabling the formation of a targeted and controlled frozen barrier in the wellbore.*

Safety: *The use of nitrogen is inherently safe, as it is non-flammable and non-toxic. This ensures a secure environment for wellbore operations.*

Versatility: *Nitrified Freezing is versatile and applicable in different wellbore scenarios, making it a flexible solution for various challenges.*

www.titaniumenergyservices.com

Titanium Energy Services

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1-844-875-1395



NITROGEN PUMPING

Drilling Operations

- CBM Fracturing
- Hydraulic Fracturing
- Frac Holdbacks
- Improve Drilling Fluid Properties
- Enhance Wellbore Stability
- Oxygen Displacement
- Pressure Control

Well Intervention

- Cleanout Operations
- Foaming Operations
- Purging & Pressure Testing
- Well Kick-Off & Stimulation
- Well Control
- Fluid Displacement

Facility Shut-Downs

- Process & Atmospheric Inerting
- Drying & Accelerated Cool-Down
- Gas Blanketing & Pressure Testing
- Enhanced Oil Recovery
- Leak Detection

Pipeline Operations

- Pipeline Pigging & Drying
- Purging & Displacement
- Pressure Testing & Leak Detection
- High Velocity Flushing

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