



## *Mobile Nitrogen (N<sub>2</sub>) Delivery System*

Weatherford's mobile N<sub>2</sub> delivery system incorporates a fully contained, highly mobile, and efficient onsite membrane nitrogen production unit (NPU), capable of producing 1,000 scfm of 95% pure N<sub>2</sub> at pressures up to 2,750 psi (18.9 MPa) with a capacity of more than 1,200 gallons of onboard fuel, and includes fuel distribution pump, valves, and filters.

Weatherford's mobile NPU provides the latest in membrane N<sub>2</sub> generation technology to pull N<sub>2</sub> from the air for safe, low-risk production of a continuous supply of N<sub>2</sub> for onshore applications. The unit's fully integrated piping system also provides metering for real-time data acquisition. Each N<sub>2</sub> trailer comes fully equipped with OSHA-compliant catwalks, handrails, and stairs, as well as 800 watts of permanently installed lighting to provide illumination for work areas, entrance, and exit points.



### *Applications*

- Underbalanced, managed pressure, controlled pressure, and air drilling
- Shallow gas well drilling
- Coal bed methane drilling
- Enhanced oil recovery
- Cleanouts



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### *Features, Advantages and Benefits*

- By design, Weatherford's mobile N<sub>2</sub> unit is inherently safer since this system's technology uses no open flame as do direct-fired N<sub>2</sub> cryogenic vaporization systems.
- Since this NPU pulls N<sub>2</sub> from the air in situ to generate N<sub>2</sub>, it is ideal for remote operations, allowing for safe, reliable, low-risk production of a continuous supply of N<sub>2</sub> at a lower cost, eliminating cryogenic hazards, as well as cryogenic delivery problems.
- The smaller footprint of this mobile unit makes it the system of choice for remote locations or regions where cryogenic N<sub>2</sub> is limited or disruptive in supply.
- This self-contained unit's mobility and its simplicity of operation translate into rapid deployment, more efficient delivery, as well as manpower savings.
- The unit's real-time onsite data acquisition metering provides the capability for real-time project management.

### *Specifications*

<b>Weight and Dimensions</b>	
Height (ft/m)	13.5 (4.1)
Width (ft/m)	8.5 (2.5)
Length (ft/m)	48.0 (14.6)
Weight (lb/kg)	80,000 (36,287.3)

<b>Performance</b>	
Maximum N <sub>2</sub> flow rate at 5% O <sub>2</sub> (scfm)	1,000
Maximum outlet pressure (psi/MPa)	2,750 (18.9)
Purity range	95% N <sub>2</sub>