



WellTracer[®] Gas-Lift Surveillance Solution

WellTracer surveys combined with the power of WinGLUE software creates an expert model for optimizing performance for an under-performing well or group of wells.

WellTracer is a patented gas-lifted well diagnostic and surveillance tool, well suited to finding the primary point of gas injection, even in high gas-oil-ratio (GOR) or low injection-rate wells. WellTracer creates an accurate snapshot of the well performance by introducing a small volume of CO₂ into the injection line, then measuring CO₂ concentration at the well head. One of the greatest strengths of this approach is that there

is no need to shut-in or run any type of well intervention, resulting in greatly reduced risks to field personnel and reduced risk to the well. The equipment is highly portable and requires only simple surface wellhead connections. This cost-effective gas-lift troubleshooting solution can result in significant production improvements and/or injection gas savings.

Applications

- Detecting operating lift depth
- Detecting if multiple points of injection are occurring
- Detecting tubing leaks
- Identifying lift gas rate through each injection point



Description	WellTracer	FGS*
Identify primary point of gas injection	●	●
Identify tubing leaks, including leaks passing small amounts of gas	●	○
Verify gas-lift models	●	●
Identify injection rates and how much lift gas is injecting into each point of injection	●	○
Reasonable results in high GOR or low-injection rate well	●	○
Accurately determine flowing bottom-hole pressure	○	●
Does not require well intervention	●	○
Easily handles highly deviated or horizontal wells	●	○

*Flowing Gradient Survey

Key Benefits Versus Other Tools and Survey Methods

The WellTracer survey is proven more accurate than other gas-lift surveillance methods in quantifying the amount of gas coming from each injection point or leak. A recent case study with a super major showcased a WellTracer project where 53% of the gas-lifted wells were identified as suffering from sub-optimal lifting conditions. The combined effort of in-depth gas-lift well modelling, new valve design and an asset-wide gaslift system de-bottlenecking resulted in a staggering 31% increase in oil production.*

*The International Petroleum Technology Institute ASME 37th Gas-Lift Workshop Houston Texas USA, Feb 2014

WellTracer can be a key component in the routine surveillance of gas-lifted wells. By offering a small footprint and simple wellhead connections, WellTracer can easily be moved from well to well.

Surveys are run while the well is in its normal operation state with no production deferment and without introducing any tools into the wellbore.

WellTracer equipment is rated:

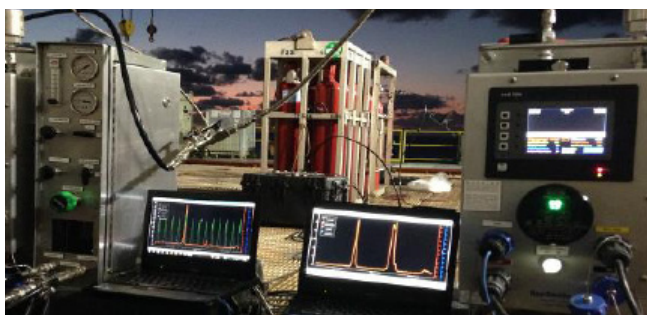
- Class I Division 2
- Groups A, B, C, D with a type Z purge
- Temperature T6 for use in hazardous areas

Also Suitable for use:

- Class I Zone 2
- AEx pZ IIC
- Ex pZ IIC

The WellTracer Advantage

- **No deferment**
Avoids shutting well in and stopping production
- **Safe**
No tools are introduced into well bore
- **Accurate**
Lift Depth determination directly related to surface casing pressure and lift gas rate measurements
- **Simple**
Minimal equipment hook-up needed
- **Inexpensive**
Suitable for inclusion in regular operation procedures
- **Flexible**
Suitable for cases where pressure surveys are not feasible, such as highly deviated and horizontal wells, along with dual completions.



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