

The most precise tracer delivery system for profiling hydrocarbon production and communication over time.

FLOWPROFILER[™] oil tracers with the Engineered Delivery System (EDS) are designed to be placed within the propped fracture network. Proprietary beads, chemically engineered to bond specifically with ProTechnics oil tracers, are injected with the proppant. Oil samples are analyzed, profiling well production and offset communication to understand:

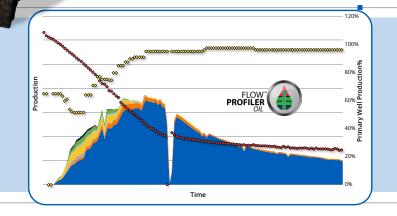
- Stage Contribution
- AB Testing
- Effects of Geologic Features

- Depletion Effects
- Well Spacing
- Lateral Length and Trajectory

Stage by Stage Hydrocarbon Profiling FLOWPROFILER™ oil tracers demonstrating little to no contribution from stages drilled out of zone

Production Thievery:

Percentage of well performance attributed to thievery from other wells in the section.



Sample analysis begins at first oil production through 6 months+ and includes:

- Dedicated Sample Coordinator
- Stringent QC through adoption of EPA quality control management standards
- Parts Per Trillion (PPT) reporting limit
- Standard analysis completed in less than 5 days
- Express analysis available for results in less than 24 hrs

FLOWPROFILER[®] Oil tracers are compatible with commonly used stimulation fluids, hydrophobic, non-radioactive, HSE friendly, and non-naturally occurring.



Solid tracer delivery system achieves precise placement and more accurate production profiling.

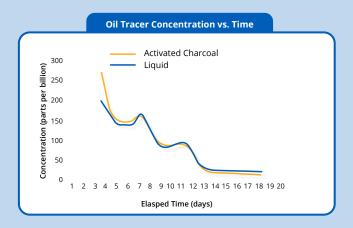
Proprietary beads, chemically engineered to bond specifically with ProTechnics' oil tracers are injected with the proppant. When the beads come into contact with oil, the oil acts as a solvent, breaking the chemical bond and allowing the tracers to dissolve in the oil. The precise placement advantage is clear; tracers are only present in the propped frac.

Specifications:

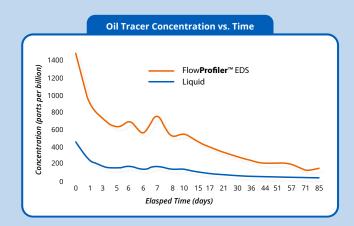
- Engineered beads available in 40/70 or 100 mesh
- Specific gravity (SG) of 2.45
- Temperature rated to 400 F (204 C)

L	iquids	General Adsorbents	Flow Profiler ™ EDS
Delivery Mechanism		Diatomaceous Earth Activated Charcoal	Proprietary
Absorption Process		Capillery	Chemical Bond
Stage Contribution			
Long Term Results			
Tracers in Fracture		Assumed	A
Minimize Dispersion			
Immune To Tracer Wash Off			
Designed Specifically for Oil Tracers			
Uniform Structure Allows For Precise Injection			

FlowProfiler[™] EDS vs Conventional Methods



Testing has shown no difference in liquid vs activated charcoal performance due to crushing/dispersion.



The advantage of precise placement (FlowProfiler[™] EDS).



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