

**An Ultimate Solution for  
Reducing Volatile Phosphorus**

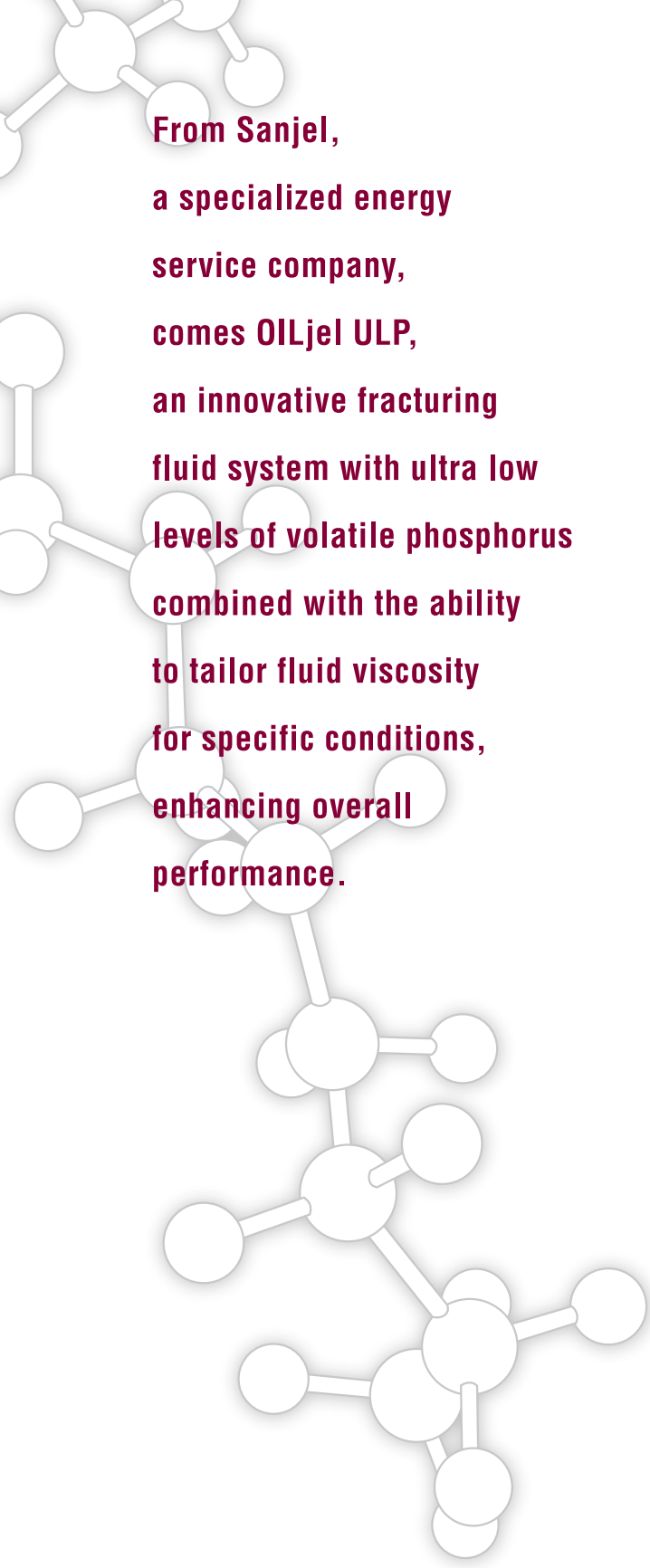
**OILjel ulp**

**FRACTURING FLUID SYSTEM**

**An Innovative 2-Component  
Fracturing Fluid System  
With Ultra Low Phosphorus  
Plus Versatile Viscosity Control**

**Pride** by Performance.





**From Sanjel,  
a specialized energy  
service company,  
comes OILjel ULP,  
an innovative fracturing  
fluid system with ultra low  
levels of volatile phosphorus  
combined with the ability  
to tailor fluid viscosity  
for specific conditions,  
enhancing overall  
performance.**

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### **Meeting a Need with Innovation**

Effective January 1, 2007, the Canadian Association of Petroleum Producers (CAPP) imposed a limit of  $0.5 \pm 1.0$  ppm volatile phosphorus in produced hydrocarbon fluids at the point of sale from the producer.

In response, Sanjel has developed the OILjel ULP system, an ultra-low volatile phosphorus hydrocarbon gelling system with excellent viscosity control across a wide range of temperatures.

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# **OILjel ulp**

## **FRACTURING FLUID SYSTEM**

Unlike traditional hydrocarbon gellants, which are prepared as a mixture of 9 species or more, the OILjel ULP gellant is composed of only 2 species, neither of which contributes to volatile phosphorus. In combination with the gellant, a low-temperature gellant enhancer offers customized and job specific rheological design for a wide variety of fracture treatments and base fluids.

In addition to ultra-low volatile phosphorus, this system also provides enhanced rheological control compared to traditional hydrocarbon-based fracturing systems.



**Sanjel**

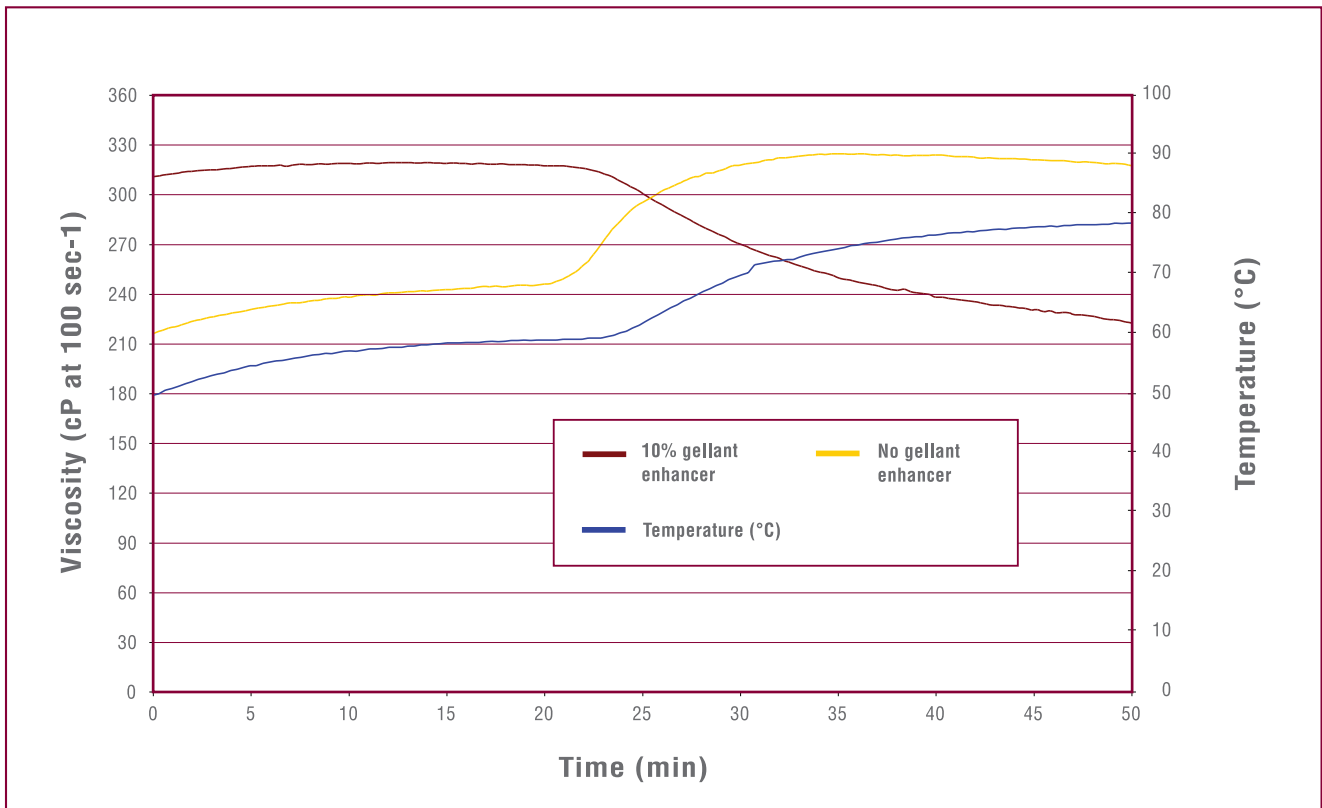
**Volatile Phosphorus Content  
of Flowback for a 180 Tonne  
OILjel ULP Fracturing Treatment**

Flowback Volume (m <sup>3</sup> )	Volatile Phosphorus Concentration (ppm)
10	0.7
20	0.5
30	0.6
40	0.8
50	0.6
100	0.5
150	0.7

**OILjel ULP —  
the Ultimate  
Solution  
for Reducing  
Volatile  
Phosphorous  
While  
Maintaining  
Viscosity  
Control**

**ulp**

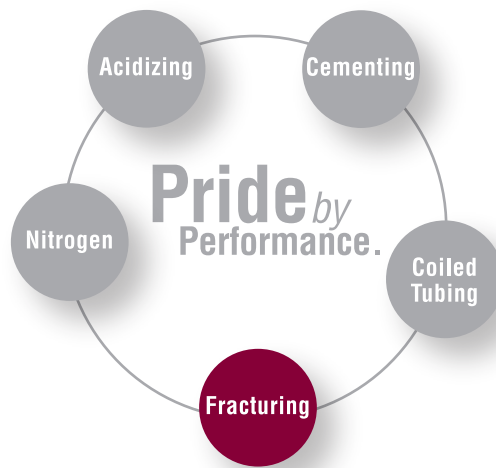
**60, 80°C OILjel ULP with Varying Gellant Enhancer Loadings**



# OILjel ulp

**FRACTURING FLUID SYSTEM**

Ask your Sanjel Representative about how you can take advantage of the OILjel ULP Fracturing Fluid System from Sanjel, a specialized energy service company.



# Sanjel

Worldwide Innovation, Commitment, Performance, and Results.

[sanjel.com](http://sanjel.com)

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