

## **Nanotechnology for Waterless Fracking**

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### **Abstract**

The use of nanoparticles and fracking fluid other than water presents significant advantages to conventional hydraulic fracturing. In addition to avoiding formation damage caused by the interaction of water molecules and clay minerals, using nanoparticles in a non-water fluid can more effectively induce fractures and also keep them propped open for enhanced hydrocarbon fluid flow. This presentation describes new processes that are being developed.