
Wells Treatment with Nissan's Nanoparticles to Enhance Gas and Oil Production



2019-08-02

Nissan Chemicals Co., in cooperation with Messer Corporation, has introduced a new technology which can improve the production of oil and gas. This technology utilizes modified nanoparticles which accumulate on the well wall to increase the movement of gas and oil particles.

At URTeC 2019, [Messer](#), a global leader in industrial gases and technology, is highlighting its RECHARGE HNP™, or "Huff 'n Puff," technology, a proven solution for well production enhancement. Ideal for re-stimulating depleted oil and gas wells, the energized RECHARGE HNP treatment combines the proven enhanced recovery properties of carbon dioxide (CO₂) or nitrogen (N₂) with the latest in advanced nanoparticle technology from [Nissan Chemical](#). Messer is at booth #544. URTeC takes place July 22 - 24 in Denver.



This proprietary technology is the result of joint efforts exploring synergistic combinations of Nissan Chemical's [nanoActiv® HRT](#) (Hydrocarbon Recovery Technology) with injections of Messer CO₂ or N₂ to boost downhole oil and gas well performance. Following treatment of depleted wells with RECHARGE HNP, production improvements in barrel-of-oil equivalents after 180 days were as high as 564%.

In the U.S. alone, hundreds of thousands of oil and gas wells are in decline or minimally producing.

"Working with Messer, we are helping well operators resolve hidden production issues to achieve significantly higher returns and faster paybacks," explains William L. Smith, President, Nissan Chemical America Corporation in Houston.

"One of the key features of RECHARGE HNP is the simplicity in executing the treatment," said Chris Ebeling, Executive Vice President, Sales & Marketing, Messer North America. "Operators

are very pleased with how quickly and cost-effectively they can re-energize a well. We believe this technology will have an important economic impact for oil and gas producers."

Read the [original article](#) on PR Newswire.