Revolutionizing Natural Gas Production

A BREAKTHROUGH IN MULTIPHASE / WET GAS COMPRESSION

Technology Update
Gas/Electric Partnership
January 31, 2018
Who is Hicor Technologies?

Hicor Technologies is a compression technology company founded out of MIT in 2009 aiming to commercialize a game-changing *multiphase compression technology*. The technology has proven performance, has undergone over 3,000 hours of lab testing, and is *successfully undergoing field trials*. Completion of field trials will lead to a commercial product in the next 12-18 months.
Why Multiphase Compression?

Multiphase compression dramatically reduces the cost and complexity required for typical compressor installation.

Many further benefits with operational costs, HS&E, and other areas.
Conventional Multiphase Technology

Most common technology for onshore multiphase “compression” is twin screw pump

Technology is very inefficient at high gas volume fractions

Hicor Multiphase Compression Technology

- New compressor design is ideally suited for multiphase applications with higher gas volume fractions
- Liquid injection cooling further enables high efficiency near-isothermal compression and unheard of compression ratios up to 40:1
  - Most applications can be handled in a single stage of compression
  - Enables extremely high flexibility to changing well conditions
Hicor Compression Technology – How Does It Work?
Pilot Demonstration Project

Partnering with Statoil to pilot technology in the Eagle Ford with installation startup in August 2016

Proving out capabilities of technology across a variety of different well conditions, installed on 5 different wells to date
Example Field Test Data

Compressor starts to pull well pressure down...

...which stimulates valuable liquids production.

Liquids and gas flow directly through compressor.

High compression ratio flexible enough to pull down well pressure.
Thank You!

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