



## 5th ALRDC Seminar for New Artificial Lift Technology

### Downhole Linear Reducer (DLR) technology for Sucker Rod Pumping wells

Artificial Lift System (ALS) is a market open for innovation and grow. According with Spears and Associates Inc. Artificial Lift Market reports under the top 20 worldwide companies three were founded in the last five years or less and six in the last ten years or less. Always driven by new technology innovation.

Low oil prices in mature fields and new market development are pushing the industry to innovate solutions that allows to dramatically reduce investment and operational cost as well as help to develop oil reserves in an efficient way. This is the case of shale oil or ultra-deep wells

Among ALS market sucker rod system is still the most popular in terms of number of wells thanks for it great operational flexibility and wide range of application. From shallow stripper wells to ultra-deep high temperature wells it without question the preferred cost balanced solution. That's why many companies are developing technology to extend the range of application of sucker rod system with new surface equipment, rods materials, pumps, drives and controllers devices. Most of these developments means incremental improvements to the system performance

But oilfield production tendencies are challenging to the industry for disruptive systems and services that support the cost-cut reduction project and new reserves development target in ultra-deep and deviated wells. Others ALS systems are willing to target this market like downhole hydraulic pumps, slim-hole low production ESP and other systems. All of them with limited success so far

Then the RodLine focus is taking advantage from all the well know advantages of the sucker rod system at the time to improve it with a disruptive patented<sup>1</sup> DLR<sup>2</sup> that push the application range to a new stage. With this, the goal is not only to supply a solution for the existing competing market but with existing solutions. Our vision is providing solution to wells not drilled nowadays due to the lifting challenges or the economics. Making these wells feasible to produce and economically attractive reducing the Capex and Opex we can open an entire new market without competition. That market exists and is expecting that technology, as Jannen Judah<sup>3</sup> has announced

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<sup>1</sup> WIPO PCT favorable Examination Report. Ongoing Patent at USA, Canada, Russia, EU, China, Mexico, Colombia, Brazil and Argentina. <https://patents.google.com/patent/WO2016009302A2/en>

<sup>2</sup> Downhole Linear Reducer. More details at SPE-185475-MS

<sup>3</sup> Jannen Judah, Chevron & 2017 SPE President, <https://www.spe.org/en/jpt/jpt-article-detail/?art=2555>