

October 14, 2017

**Attention: Oil firms, Capital groups or Banking institutions within the Oil sector**

**New Green Patented Technology and Unique Reservoir Modelling Simulator Program for Enhanced Oil Recovery Alternatives**

Are you frustrated by decline oil production, poor production, or lack of economical oil production to turn your deficits into profits? Many of you look at poor oil prices for the primary cause of this dismay however perhaps we should be looking at the production technology that is being used to improve recovery rates, slow down the production decline and reduce costs. Focus on things that we can control to make a profit.

Our firm along with our team of well-respected professional's engineers and geologists have now developed an avenue for each group to access our technology through our unique three-phase pressure pulse assisted thermal-gas-chemical reservoir simulator as a starting point. Therefore, this simulator can provide physical understanding of the performance of such EOR processes that are quite necessary and important to the relative oil and gas industry. We focus on a robust three-phase reservoir simulation with coupled thermodynamic phase behaviors and of different mechanisms existing in thermal, gas, and chemical flood methods plus pressure pulse in porous media. Thus, providing oil firms, capital groups and banking institution within the oil sector options on reservoir development. The Pulse Resonance Thermal Injected Syngas Process (PRTISP) simulator enables to perform and run cases for further investigation and optimization purposes to conceptually understand efficiency of PRTISP in various circumstances. The PRTISP technology is a hybrid process that combined four processes and well configurations as the following:

- 1) Steam flooding to thermally lower oil viscosity and commercially applied to heavy oil and bitumen recovery
- 2) Syngas injection to upgrade heavy hydrocarbon components as well as reduce capillarity forces for mobilization of trapped oils
- 3) Pressure pulse resonance
- 4) Toe to Heel (TTH) short distance oil displacement (SDOD) process, vertical injection 5 spot pattern application.

PRTISP takes advantage of above mentioned processes that are currently being applied individually to a wide range of reservoirs. In fact, our product can be used to model and capture the mechanisms behind advanced PRTISP process. Modelling of such process is very complicated and far from satisfactory in existing phase behavior and fluid-flow simulators. Integrated modelling of the PRTISP simulator is completely different and uniqueness compared with the traditional simulators such as CMG, ECLIPSE, INTERSECT, etc. In the following table, we list a few advantages of the PRTISP simulator in comparison to tradition simulators:

**Advantages of target reservoir in comparison to commercial simulators**

<ul style="list-style-type: none"> <li>• Coupled steamtable/EOS(or Blackoil ) phase behaviour</li> </ul>
<ul style="list-style-type: none"> <li>• Pressure pulse resonance process with different pulsing parameters in governing fluid flow equations</li> </ul>
<ul style="list-style-type: none"> <li>• Capillary or trapping number conceptual physics using to model the PRTISP process</li> </ul>
<ul style="list-style-type: none"> <li>• Contact angle and interfacial tension mechanisms using to model the PRTISP process</li> </ul>
<ul style="list-style-type: none"> <li>• Dynamic residual saturations models</li> </ul>
<ul style="list-style-type: none"> <li>• Dynamic relative permeability parameters (endpoint and exponent) models</li> </ul>
<ul style="list-style-type: none"> <li>• Dynamic capillary pressure model</li> </ul>
<ul style="list-style-type: none"> <li>• Physics based simulator</li> </ul>

The typical question that many have asked is why has none of our engineering groups considered this technology in the past?

The response is simply this, this patented process technology and tool has not been available until now. We hold the patents and the application rights to the process technology, tools design, manufacturing, and turnkey application along with access to the PRTISP reservoir modelling simulator program. Several patents have been issued including Canadian, USA and Eurasian with a WIPO filing as well. This technology is green technology with no emissions, small footprint and power is it's byproduct.

What we are offering is opportunity to allow our simulation to provide you with some solid options on how to develop or stimulate your cash strapped reservoir operations. This simulator

will also run and compare our technology to other existing enhanced oil recovery technologies for all reservoir applications. These reservoirs include but not limited to bitumen, sands, carbonates, and shale applications. This will also give you free access to our government approved pilot project in Saskatchewan along with access to performance and production data, site tours and confidential information that would not be available by public access.

**Why is this offering so important to your group?** It allows your firm to make an informative decision on whether to take the losses on reservoirs you cannot produce effectively or use better technology to produce more efficiency and effect. It would allow capital groups or banks to get a clearer picture of what they are financing or investing. It also allows companies to maximize their investment using all the tools in the market place. Due diligence to the shareholders or investment community is a corporate responsibility.

**Some have asked if the information is confidential?** Our response is yes, the information gathered and the simulation is under your ownership and of which you pay for, the cost is comparable to other reservoir simulations and the data enter is done by our staff at your facility or office. No materials leave your possession. The PRTISP reservoir modelling simulator program has been developed by Dr. Hamid Lashgari, University of Texas in conjunction with Harold Nikipelo patent holder and license holder of this program. All simulations will be overseen by Dr. Hamid Lashgari and his Reservoir team.

We are available to discuss our technology with your group and to explore the ability to offer a fair engineered report that can be reviewed by your own internal group for full analysis of our report.

At this time, I would like to thank you for your time and consideration regards to the PRTISP technology. If there are any questions or concerns, please feel free to contact myself directly.

Sincerely

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