

## **Downhole pressure boosting in Natural Gas Wells**

Norman Liley  
*Corac Group Plc*

In recent years Gas E&P companies have identified that pressure boosting in close proximity to a gas reservoir can accelerate recovery beyond that possible by alternate means. The presentation will present this case; broadly indicate the type of assets that may benefit from this approach, and present details of how this game changing technology delivers solutions for the challenging conditions at the base of a producing well.

Downhole pressure boosting works by improving the vertical lift performance of the below ground tubing and stimulating reservoir flow by increased drawdown. The Study established a viable means of wellbore compression that will be of particular value to fields in their secondary or tertiary phases and could also enable production from otherwise sub-economic, or backed-out, gas assets. A description of the key reservoir and well drivers determining the level of acceleration or recovery will be included. From the reference cases studied, incremental production rate improvements of over 40% will be demonstrated.

The presentation focuses on the findings of a Feasibility Study prepared by a partnership between Corac Group plc, Weir Pumps Limited and Shell E&P B.V.