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SALA BARBARA
5° Palazzo Uffici - ENI divisione E&P
Via Emilia, 1
S. DONATO MILANESE

ore 11:00 – 12:30

DISTINGUISHED LECTURE

STEPS TOWARDS ULTIMATE DRILLING PERFORMANCE

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➤ ABSTRACT

Deep gas wells in Saudi Arabia are drilled in a very challenging high temperature high pressure (HPHT) environment that requires a significant investment in time and money. This paper explains a proven business model implemented to achieve a breakthrough in ultimate drilling performance. The premise was to partner with suppliers and contractors to leverage technology aiming at improving efficiencies and cutting drilling cost. The process starts with goal sharing and information sharing efforts and then ends up with decision making on major milestones and critical steps to be undertaken.

The market shares of suppliers and contractors are assigned proportional to their continuous innovation and fulfilment of well designed target objectives. A crucial first step was the identification of those areas with the greatest potential for improvement. Bit technology was one such area. Through the development of a trial test system, bit suppliers were motivated to design aggressive bits with the most successful design capturing 90% of the market share. The remaining 10% market served as a forum for competing designs to be trial tested and ultimately surpasses the previous "best in class" design. This process of "leap-frogging" resulted in a very rapid improvement in drilling performance and had the added effect of forcing other advances such as the use of high performance mud motors. Similar gains are being realized from other aspects of well design and drilling practices. A key part of the success of these efforts was a teamwork approach to goal sharing, decision making, and widely sharing results and information. By continuously establishing higher benchmarks, maintaining an open method of testing and evaluation, and keeping market share accessible, ultimate drilling performance has become steadily more achievable

➤ BIOGRAFIA

Received B.S Degree in Petroleum Engineering in 1982 from King Fahad University of Petroleum and minerals at Dhahran, Saudi Arabia. After graduating, he joined Saudi Aramco Drilling and Workover organization and worked in various capacities in drilling engineering and operations including to production engineering. He held various management positions over the years and currently he is the Deep Gas Drilling Engineering General Supervisor. His latest assignment was leading the efforts to improve the drilling efficiency of the gas drilling fleet.