

Wellbore Diagnostics- Reliable & Efficient Well Delivery Through Optimal Data Management

Professor Adewale Dosunmu

Abstract:

Today's complex drilling plans, operational schedules and exploitation of multiple target zones sometimes from the same platform require precise information to maximize drilling performance and wellsite efficiency. Optimization of the drilling operation is a closed loop process that commences at the well planning phase, through the well construction process and results in the implementation of the learning curve from the exploration through appraisal drilling to field development. Even when drilling reservoir sections with high end bottom hole assemblies on expensive offshore rigs, drilling optimization practices designed to reduce drill string vibrations, minimize bending moments, optimize torque and drag and improvement in hole cleaning are often not considered or inaccurately applied. Only when the process is properly applied can well engineers and drillers manage operating parameters with a view to minimizing non productive time, eliminating unplanned down hole trips and improving equipment life. Real time data and knowledge management are essential to early decision making in today's complex drilling environment towards time savings and consequent cost reduction. This presentation discusses the application of techniques to real time decision analysis in well planning and construction process and improved profitability in a continually challenging environment.

Biography:

Professor Adewale Dosunmu is a Professor of Petroleum Engineering in the Department of Petroleum & Gas Engineering, University of Port Harcourt and the Shell Aret Adams Chair in Petroleum Engineering at the University of Port Harcourt. Professor Dosunmu holds a Bsc (Petroleum) 1975 from the University of Ibadan as one of the pioneer Petroleum Engineers trained in Nigeria. He also holds an MEng (1985) and PhD (1990) Petroleum Engineering. He is the author of several books and more than 60 technical papers that have been published in International Journals. Professor Dosunmu also has extensive industry experience enabling him to blend theory with actual field experience.

Professor Dosunmu is a recognized international expert in Well Engineering in the special area of well bore stability. He has been an SPE Distinguished Lecturer to several countries to make presentations on Wellbore Stability in well construction. These countries include India, Philippines, Vietnam, Malaysia, Brazil, Argentina, Ecuador, Peru and Trinidad and Tobago. He is also a consultant to several E&P companies in Nigeria and overseas. Professor Dosunmu is a member of several professional societies including the Society of Petroleum Engineers International, the Nigerian Society of Engineers and is a professional registered Engineer. He has been on accreditation teams to many Universities and is a visiting Professor to several universities offering courses in Petroleum Engineering.

Professor Dosunmu is a recipient of several awards including SPE Distinguished award, SPE Regional award for Drilling & Well Completion, SPE Century club and service awards by SPE Section 103 Port Harcourt of which he was the section chairman in 2002. His research interests are in Well Engineering particularly in Wellbore Stability, Petroleum Economics and Natural Gas Engineering.