1. Record Nr. UNINA9911004823303321 Autore Lyons William C **Titolo** Working guide to drilling equipment and operations / / William Lyons Pubbl/distr/stampa Amsterdam; ; Boston, : Gulf Professional, c2010 **ISBN** 1-282-32935-9 9786612329357 1-85617-844-7 Edizione [1st ed.] Descrizione fisica 1 online resource (617 p.) Disciplina 622.338190284 Soggetti Oil well drilling - Equipment and supplies Gas well drilling - Equipment and supplies Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Front Cover; Working Guide to Drilling Equipment and Operations; Nota di contenuto Copyright Page: Table of Contents; Chapter 1. DRILLING MUDS AND COMPLETION SYSTEMS: 1.1 Functions of Drilling Muds: 1.2 Classifications; 1.3 Testing of Drilling Systems; 1.4 Completion and Workover Fluids: 1.5 Safety Aspects of Handling Brines: 1.6 Preventing Contamination: Chapter 2. DRILL STRING: COMPOSITION AND DESIGN: 2.1 Drill Collar; 2.2 Drill Pipe; 2.3 Drill String Inspection Procedure; Chapter 3. AIR AND GAS DRILLING: 3.1 Bottomhole Pressure: 3.2 Minimum Volumetric Flow Rate: 3.3 Drill Bit Orifices or Nozzles 3.4 Injection Pressure 3.5 Water Injection; 3.6 Saturation of Gas; 3.7 Eliminate Stickiness: 3.8 Suppression of Hydrocarbon Combustion: 3.9 Aerated Drilling (Gasified Fluid Drilling); 3.10 Stable Foam Drilling; 3.11 Completions Operations; 3.12 Compressor and Inert Air Generator Units; 3.13 Highly Deviated Well Drilling and Completions; 3.14 Downhole Motors; Chapter 4. DIRECTIONAL DRILLING; 4.1 Glossary of Terms used in Directional Drilling; 4.2 Dogleg Severity (Hole Curvature) Calculations; Chapter 5. SELECTION OF DRILLING PRACTICES; 5.1 Health, Safety and Environment; 5.2 Production Capacity 5.3 Well Planning and Implementation 5.4 Drilling Implementation; 5.5 Post-Run Evaluation; Chapter 6. WELL PRESSURE CONTROL; 6.1

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Sommario/riassunto

Drilling technology has evolved in order to get at the increasingly harder to find oil, and in a more environmentally friendly way. Successful drilling operations require blending many technologies. Drilling equipment and procedures have a unique language that must be conquered in order to understand drilling operations. Working Guide to Drilling Equipment and Operations provides a fundamental, basic knowledge of the intricacies of drilling fluid, drilled solids management, drill bits, drill string design, directional drilling, cementing, casing, hydraulic optimization, and a discus