

1. Record Nr.	UNINA9910679484503321
Autore	Byrom Ted G
Titolo	Casing and liners for drilling and completion // Ted G. Byrom
Pubbl/distr/stampa	Houston, TX : , : Gulf Pub., , [2007] ©2007
ISBN	0-12-799981-7 1-60119-618-0
Descrizione fisica	1 online resource (398 p.)
Collana	Gulf Drilling Guides Gulf drilling series
Disciplina	622.3381
Soggetti	Oil well casing - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Developed under the auspices of the IADC Technical Publications Committee"--Cover.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Casing and Liners for Drilling and Completion; Copyright Page; Dedication; Table of Contents; Preface; CHAPTER 1. Oil-Field Casing; 1.1 Introduction; 1.2 Setting the Standards; 1.3 Manufacture of Oil-Field Casing; 1.4 Casing Dimensions; 1.5 Casing Grades; 1.6 Connections; 1.7 Strengths of Casing; 1.8 Closure; 1.9 References; CHAPTER 2. Basic Calculations and Hydrostatics; 2.1 Introduction; 2.2 Units of Measure; 2.3 Fluid Statics; 2.4 Oil-Field Calculations; 2.5 Closure; 2.6 References; CHAPTER 3. Casing Depth and Size Determination; 3.1 Introduction 3.2 Casing Depth Determination 3.3 Closure; 3.4 References; CHAPTER 4. Casing Load Determination; 4.1 Introduction; 4.2 Casing Loads; 4.3 Collapse Loading; 4.4 Burst Loading; 4.5 Surface Casing; 4.6 Intermediate Casing; 4.7 Production Casing; 4.8 Liners and Tieback Strings; 4.9 Closure; 4.10 Reference; CHAPTER 5. Design Loads and Casing Selection; 5.1 Introduction; 5.2 Design Factors; 5.3 Design Curves for Collapse and Burst; 5.4 Preliminary Casing Selection Process; 5.5 Axial Loads; 5.6 Collapse with Combined Loads; 5.7 Additional Consideration-Cost; 5.8 Closure; 5.9 References CHAPTER 6. Running Casing 6.1 Introduction; 6.2 Transport and Handling; 6.3 Pipe Measurements; 6.4 Crossover Joints and Subs; 6.5 Running the Casing; 6.6 Landing Practices; 6.7 Closure; CHAPTER 7.

Beyond Basic Casing Design; 7.1 Introduction; 7.2 Structural Design; 7.3 Mechanics of Solids; 7.4 Material Behavior; 7.5 Yield Criteria; 7.6 Mechanics of Tubes; 7.7 Closure; 7.8 References; CHAPTER 8. Casing Design Performance; 8.1 Introduction; 8.2 Tensile Design Strength; 8.3 Burst Design Strength; 8.4 Collapse Design Strength; 8.5 Combined Loads; 8.6 Lateral Buckling; 8.7 Thermal Effects 8.8 Closure 8.9 References; CHAPTER 9. Casing in Directional and Horizontal Wells; 9.1 Introduction; 9.2 Bore-Hole Friction; 9.3 Curvature and Bending; 9.4 Combined Loading in Curved Well Bores; 9.5 Closure; 9.6 References; CHAPTER 10. Special Topics; 10.1 Introduction; 10.2 Casing Wear; 10.3 Expandable Casing; 10.4 Drilling with Casing and Liners; 10.5 Closure; Index

Sommario/riassunto

The Gulf Drilling Series is a joint project between Gulf Publishing Company and the International Association of Drilling Contractors. This first text in the Gulf Drilling Series presents casing design and mechanics in a concise, two-part format. The first part focuses on basic casing design and instructs engineers and engineering students how to design a safe casing string. The second part covers more advanced material and special problems in casing design in a user-friendly format. Learn how to select sizes and setting depths to achieve well objectives, determine casing loads
