



drilling toolbox

Field Edition



**TECHNICAL
TOOLBOXES**

Drilling Toolbox
Field Edition

Consists of more than 40 software modules designed specifically for the drilling professional.

- **Hydraulics & Hole Cleaning**
- **General Drilling Engineering**
- **Cementing Calculation**
- **Mud Management**
- **Pressure Control**
- **Drill String Design Calculations**
- **Simple Casing Design**
- **MMS 30 CFR 250 / 254 REGULATIONS**
- **Drill Pipe Database**
- **Halliburton Cementing Tables (Red Book)**
- **Document/Applications Management Module**



**TECHNICAL
TOOLBOXES**

P. O. Box 980550
Houston, TX 77098
713.630.0505
sales@ttoolboxes.com

www.ttoolboxes.com

DRILLING TOOLBOX - FIELD EDITION

Drilling Toolbox – Field Edition is a suite of field-tested drilling applications originally developed by ExxonMobil for use by drilling engineers and professionals. Technical Toolboxes updated the software to current Windows standards and markets the software. The software program consists of more than 40 software modules designed specifically for the drilling professional. The software includes the following functional engineering modules:

Hydraulics & Hole Cleaning

- Scott Bit Hydraulics
- Annular Hydraulics and Vertical Hole Cleaning
- Pressure Losses through Drill String
- Bit Hydraulics
- Surge and Swab Pressures – Drill String
- Surge and Swab Pressures - Casing
- Hydraulics Planning
- Circulating Pressure Loss in Drill String Annulus
- Circulating Pressure Loss in Casing Annulus

General Drilling Engineering

- Bit Break Even Calculations
- Drilling Temperature Profile

Cementing Calculation

- Balanced Plug Calculations

Mud Management

- Water Base Mud Retort Analysis
- Oil Base Mud Retort Analysis
- Solids Control Equipment Performance Analysis
- Drilled Solids Cost Removal Analysis
- Mud Planning
- Mud Weight Up
- Mud Dilution
- Soft Rock Controlled Drilling
- Solids Discharge Evaluation

Pressure Control

- Drilling Kick Tolerance
- Formation Fracture Pressures

Drill String Design Calculations

- Critical Rotary Speeds
- Bending Resistance Ratios
- Maximum Allowable Overpull
- Stuck Pipe - Free Point
- Maximum Allowable WOB

Simple Casing Design

- Gas Gradients – Surface Pressure
- Casing Buckling for Drilling Strings
- Tubing Movement and Stress Calculations
- Drilling Burst Load Lines
- Collapse Load Lines
- Production Burst Load Lines

MMS 30 CFR 250 / 254 REGULATIONS – An electronic version of the industry standard for Gulf of Mexico region field operations.

Drill Pipe Database - Database of all API - 5D standard steel drill pipe.

Halliburton eRedBook – A digital oilfield toolkit that provides users with interactive wellbore diagram tool, calculators, API pipe data, and other drilling technical data.

Engineering Units Conversion Module

Document Management Module – Add your own WORD or PDF documents to customize your application.

Applications Management Module – Add your own Excel spreadsheets or vendor applications for your use.