

WellString — Wellbore Design and Loading Stress Analysis



WellString is a wellbore design and tubing/casing loading stress analysis module enabling engineers to create and edit wellbore schematic diagrams in seconds. WellString also provides casing, tubing and rod stress verification and deformation analyses.

Main Functions

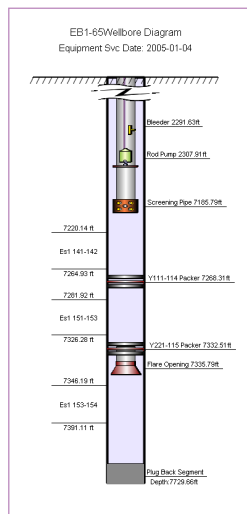
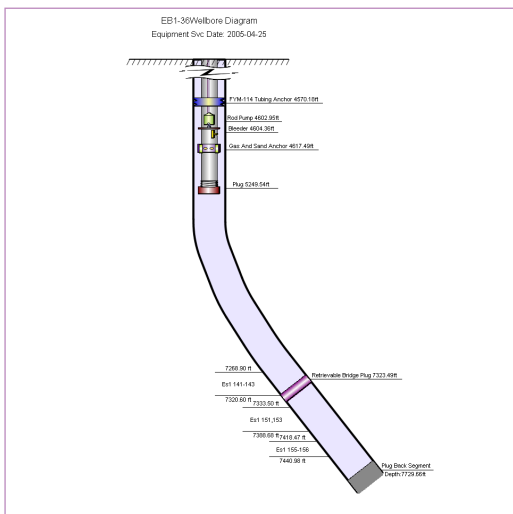
Wellbore Diagram Creation

Three ways to create a wellbore diagram

- Create Automatically from database
- Create Automatically from custom settings
- Create Manually using pre-defined or user defined component icons

Wellbore Schematic Diagram Display

- Built-in template settings for vertical, deviated, horizontal and multi-lateral well
- Display tubing, casing and rod by segments;
- Black and white, color and 3-D effects
- Support text, table and graph display



Parameters Settings

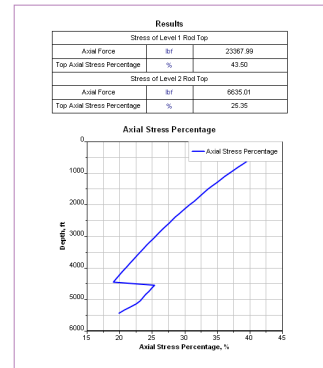
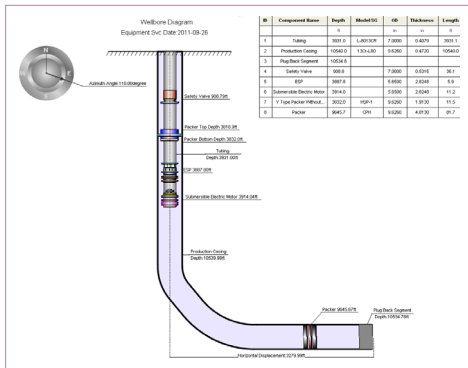
Device Types: Tubing Accessories, Lift Devices, Others, Injection Devices, Packers, Rod Accessories, Completion Items, Cementing Items.

Components: Solid Storage Device, Rubber Plug, Thermal Treated Pipe, Safety Joint, Hydraulic Tubing Holddown, Hydraulic Anti-top Slips, Hydraulic Anti-off Slips, Circulation Flushing Valve, Hydraulic Anchor, Fracture Sand Jet, Release Sub, Gas Anchor Separator, Tubing Anchor, Hydraulic Shaking Jet Head, Water Jet Filter.

No.	Name	Type	Manufactur	Model	Top Depth	Length
1	Landing Nipple	Tubing Acc			0.00	0.00
2	Bleeder	Tubing Acc			0.00	0.00
3	Rod Pump	Lift Device			0.00	0.00
4	Packer	Packers			0.00	0.00

Buttons: Ascending by Depth, Descending by Depth, OK, Cancel.

WellString — Wellbore Design and Loading Stress Analysis



Component Editing Function

- Offer a variety of built-in standard component icons
- Easy to edit wellbore components

Loading Stress Analysis

- Safety strength calculation for casing, tubing and rod stress
- Quick check of downhole tool performance
- Loading and deformation calculation under various operation conditions

Main Features

- Powerful graphical capabilities
- Diagram can be created from data in database
- Database for well trajectory and component templates
- Easy editing for wellbore diagram

PEOffice® is a PC/network-based software platform for integrating oil and gas reservoir management, production analysis and design. PEOffice® provides systematic computations and comprehensive analysis for reservoir model management, reservoir performance analysis, production problem diagnosis, optimized design of production parameters and analysis of oil/gas gathering and transportation system. PEOffice is widely utilized by petroleum engineers onsite and in the back office to resolve production problems and to manage oil and gas field development.



Houston

11111 Richmond Avenue, Suite 142 Houston, TX 77082 USA
 Phone 1-713-787-6622 Fax 1-713-787-6623
 Email optus@optpt.com

Beijing

C2001, SP Tower, Tsinghua Science Park, Beijing 100084, China
 Phone 86-10-8215 0090 Fax 86-10- 82150277
 Email optcn@optpt.com