Borehole/well schematics in matplotlib

Release 0.1.2

Mar 29, 2020

Contents

`well-schematics` is a package to help with making schematic diagrams of the construction of boreholes and wells in matplotlib.

The project's homepage is at GitHub.

CHAPTER 1

Install

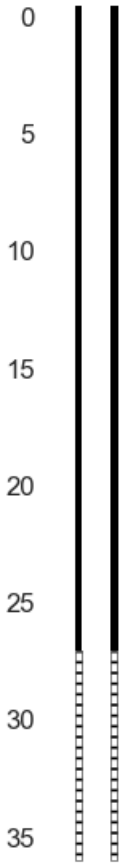
It can be installed from PyPI:

```
$ pip install well-schematics
```

CHAPTER 2

Usage

```
>>> from well_schematics import draw_simple
>>> draw_simple(pzone_top=27, pzone_bottom=36, casing_top=-0.5, pzone_type="S")
```


0
5
10
15
20
25
30
35

CHAPTER 3

Docstrings

well_schematics.**draw_simple**(*pzone_top*, *pzone_bottom*, *casing_top=0*, *pzone_type='S'*, *ax=None*, *tight_layout=True*, *depth_tick_markers=False*)

Draw simple well schematic.

Parameters

- **pzone_top** (*float*) – top of the production zone
- **pzone_bottom** (*float*) – bottom of the production zone
- **casing_top** (*float*) – top of the casing
- **pzone_type** (*str*) – either "S" for screen, "SC" for slotted casing, or "OH" for open hole.
- **ax** (*matplotlib.Axes*) – to draw in
- **tight_layout** (*bool*) – run tight_layout() on ax.figure to rearrange things to fit.
- **depth_tick_markers** (*bool*) – show tick markers for the vertical depth axis. Labels will always appear.

The simple model used here assumes that a well consists of solid casing of one diameter from top, and then immediately below that, one type of production zone, of the same diameter.

Returns: a list of the artists created.

CHAPTER 4

Changelog

4.1 Version 0.1.0

- Initial release

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