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petroleum

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kinverarity1 / lasio

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Python library for reading and writing well data using Log ASCII Standard (LAS) files

#python #data-mining #geophysics #io #data-management #geology #groundwater #petroleum
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 #well-log #log-ascii-standard #swung-t21

Updated on Nov 17, 2023 ● Lasso



agilescientific / welly

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Welly helps with well loading, wireline logs, log quality, data science

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Updated on May 15, 2023 ● Python

 [akashlevy / Deep-Learn-Oil](#)

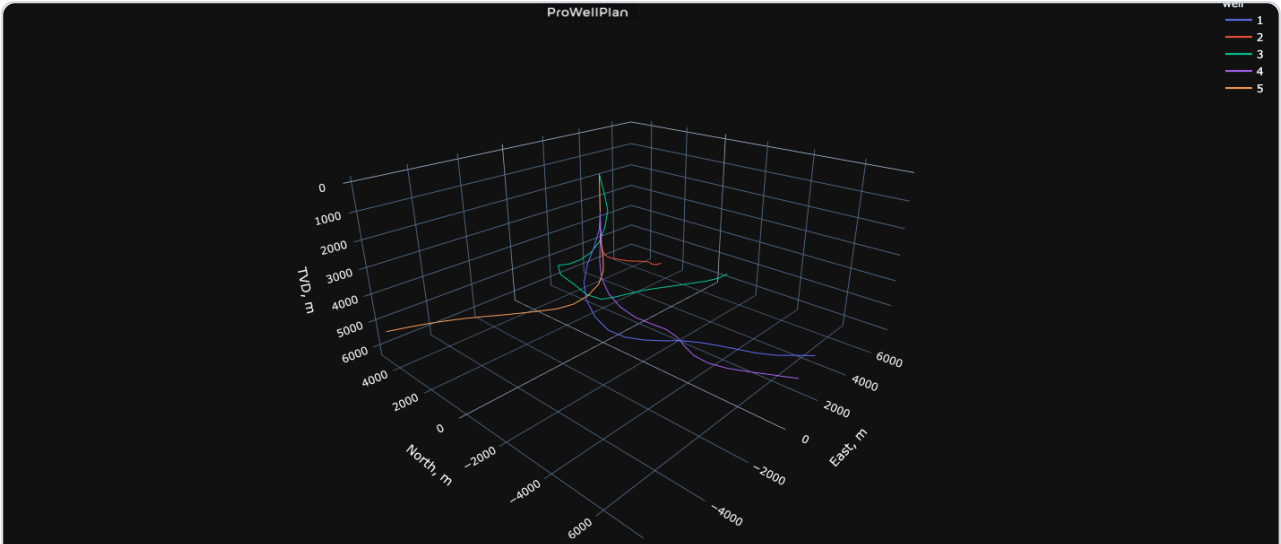
 Star 84 

 Code  Issues  Pull requests



Deep learning tools for predicting oil well data

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Updated on Sep 29, 2021 ● Python



 [pro-well-plan / well_profile](#)

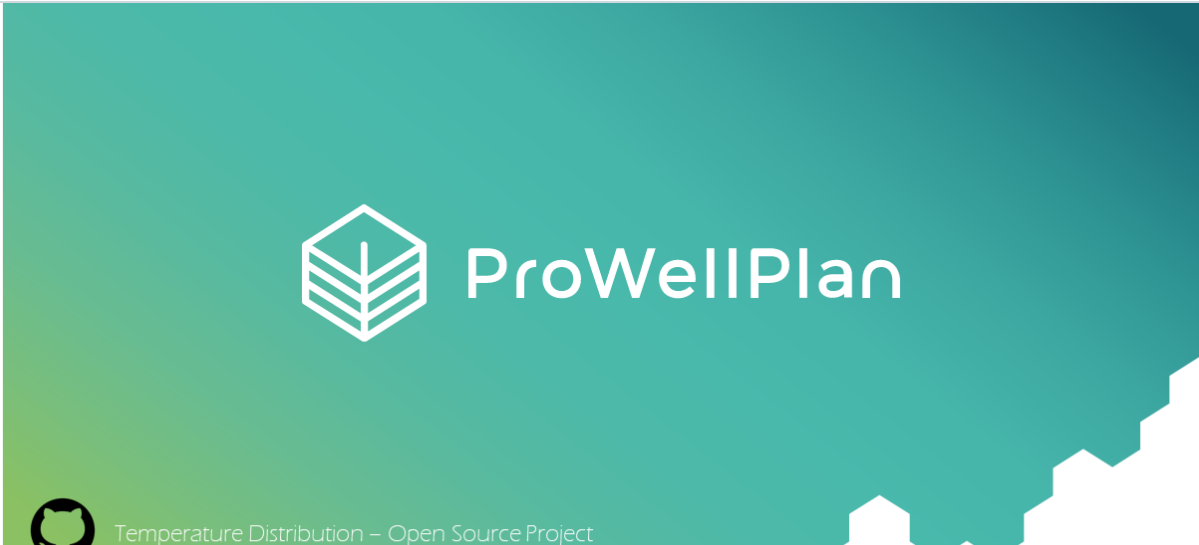
 Star 73 

 Code  Issues  Pull requests

The python tool for well trajectories

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Updated on Oct 23, 2023 ● Python



The banner for the ProWellPlan repository features a teal-to-green gradient background. On the left is a white hexagonal logo with horizontal lines. To its right, the text "ProWellPlan" is written in a large, white, sans-serif font. At the bottom left of the banner, there is a small GitHub Octocat icon and the text "Temperature Distribution - Open Source Project".

pro-well-plan / pwptemp ☆ Star 56

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pwptemp

[#simulation](#) [#production](#) [#injection](#) [#temperature](#) [#drilling](#) [#petroleum](#)

Updated on Mar 2, 2021 ● Python

GeostatisticsLessons / **GeostatisticsLessonsNotebooks** ☆ Star 51

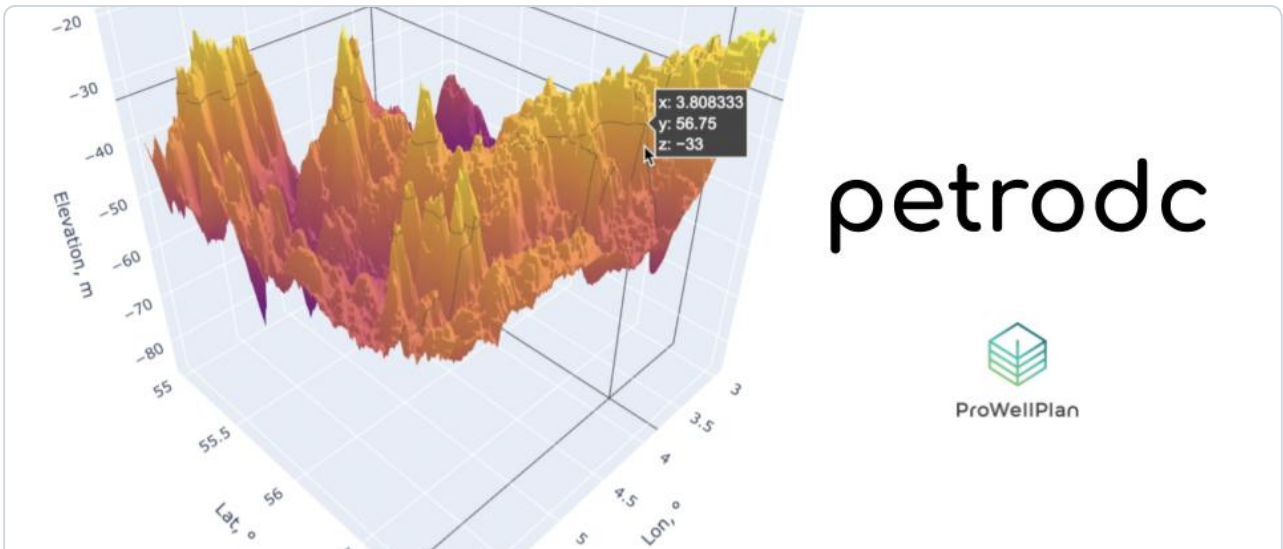
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These are python notebooks accompanying Lessons available at GeostatisticsLessons.com

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[#geostatistics-lessons](#)

Updated on Jun 24, 2020 ● Jupyter Notebook



[pro-well-plan](#) / [petrodc](#)

Star 42

Code Issues Pull requests

Petroleum Data Collector

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Updated on May 23, 2021

[derrickturk](#) / [aRpsDCA](#)

Star 32

Code Issues Pull requests

R package for Arps decline curve analysis.

[#petroleum](#) [#petroleum-engineering](#) [#decline-curve-analysis](#)

Updated on Jul 26, 2017

[f0nzie](#) / [rNodal](#)

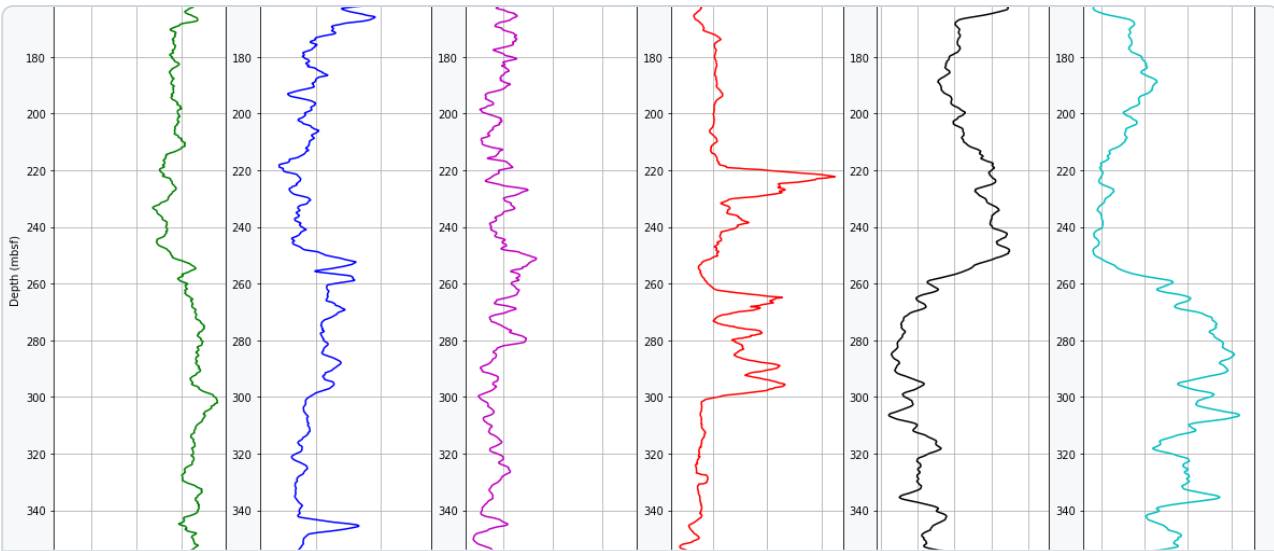
Star 30

Code Issues Pull requests

Nodal Analysis for Petroleum Production Engineering

[#data-science](#) [#rstats](#) [#nodal-analysis](#) [#petroleum](#)

Updated on Feb 24, 2019



 **abhishekdbihani / synthetic_well-log_polynomial_regression**

 Star 28 

 Code  Issues  Pull requests

This project attempts to construct a missing well log from other available well logs, more specifically an NMR well log from the measured Gamma Ray (GR), Caliper, Resistivity logs and the interpreted porosity from a well.

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[#porosity](#) [#nmr-log](#) [#walker-ridge](#) [#keathley-canyon](#) [#resistivity-log](#)

Updated on Sep 21, 2020  Jupyter Notebook

 **derrickturk / ocd_production**

 Star 27 

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Unpack and process a wcpduction.zip file from the New Mexico OCD's FTP site

[#petroleum](#)

Updated on May 18, 2020  Rust



mwentzWW / petrolpy Sponsor Star 17

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Open source petroleum engineering projects, useful scripts, functions, and jupyter notebooks

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Updated on Nov 17, 2020 Jupyter Notebook

donald-keighley / lasr Star 17

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An R package for reading Log Ascii Standard (LAS) files for well log data.

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Updated on Jan 8, 2023 C++


derrickturk / public-oil-gas-data Star 14

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Freely-available public oil & gas data

[#petroleum](#) [#petroleum-dataset](#)

Updated on Apr 2, 2014

 [derrickturk / pydca](#) ☆ Star 14

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A "simple" decline-curve analysis example in Python
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Updated on May 20, 2020 ● Python

GasCompressibility-py

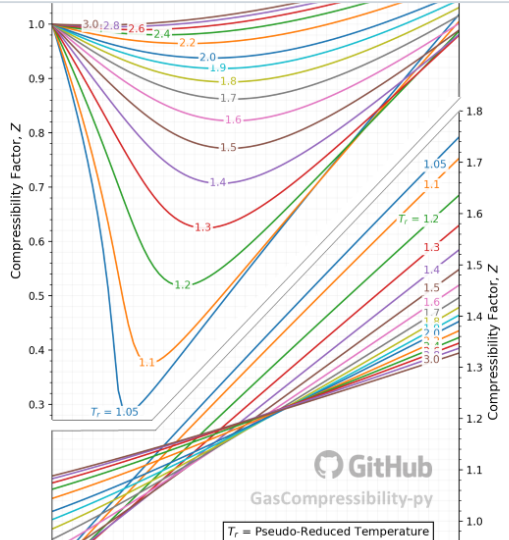
Required Inputs	P, T, γ_g
Optional Inputs	$x_{CO_2}, x_{H_2S}, x_{N_2}$


↓

Main Output	Z
Additional Outputs	$P_r, T_r, P_{pc}, T_{pc}, P'_{pc}, T'_{pc}, \epsilon, K, J$

```
In [2]: gc.calc_z(sg=0.7, T=75, P=2000)
```

```
Out[2]: 0.736226687300007
```




 [aegis4048 / GasCompressibility-py](#) ☆ Star 13

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Gas compressibility z-factor calculator package in Python
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Updated on Dec 18, 2023 ● Python

 [Yous3ry / Python_Automated_DCA](#) ☆ Star 6

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Python Automatic Decline Curve Analysis (DCA) For Petroleum Producing wells
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[#reservoir-engineering](#) [#decline-curve-analysis](#)


Updated on May 10, 2022 ● Python

 [FracThePermian](#) / **FEM-Reservoir-Drainage-3D** ☆ Star 6

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Compares analytical/numerical results for the drainage of a single well.
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[#finite-element-methods](#) [#petroleum-engineering](#) [#oil-and-gas](#)


Updated on Jul 24, 2020 ● MATLAB

 [equinor](#) / **lcm** ☆ Star 5

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Updated on Dec 5, 2023 ● Python

 [jshumway0475](#) / **Petroleum** ☆ Star 5

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Discounted cash flow analysis for oil and gas
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Updated 29 days ago ● Jupyter Notebook

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