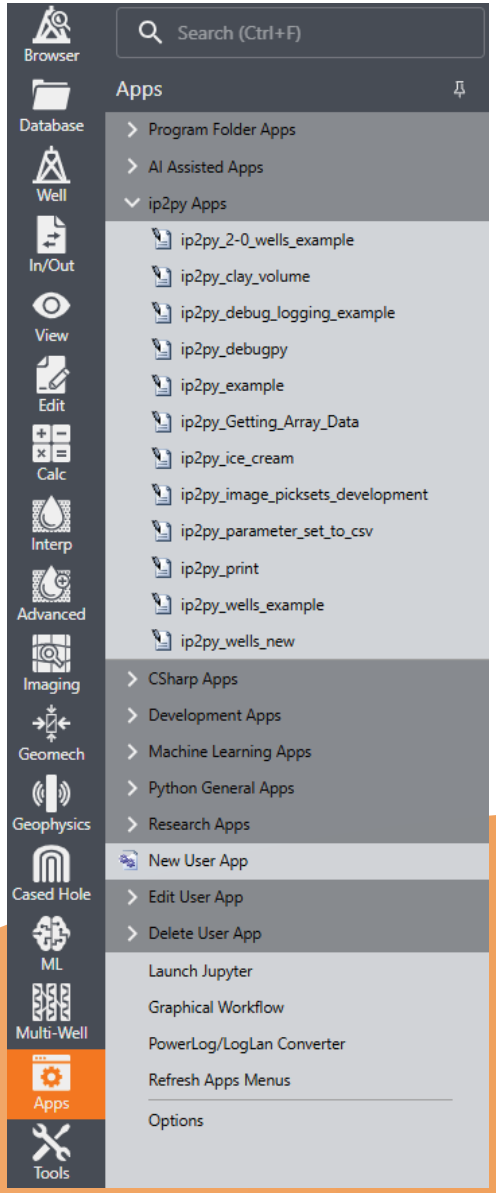
Interactive Petrophysics

Geoactive

Python SDKP & IP2PY

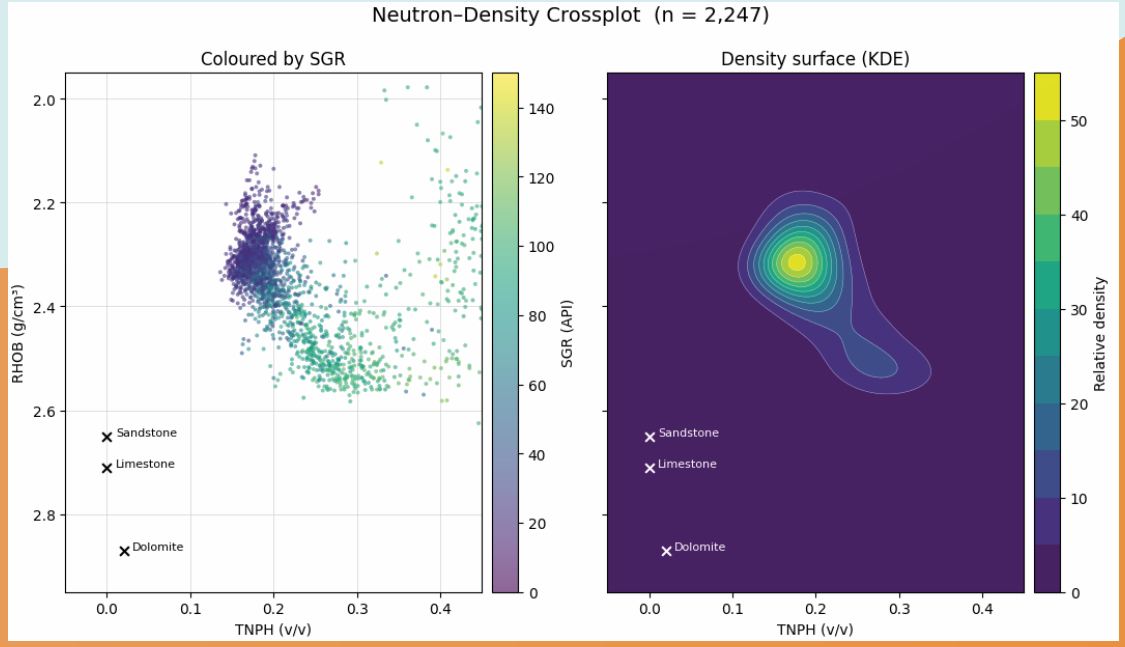


IP provides a native Python scripting environment for extending, automating, and customising workflows beyond the core toolset. Python runs directly inside IP via User Apps, or through Jupyter Notebooks, which let you explore and analyse your well data interactively. These can be run one step at a time and allow you to visualise data, write detailed explanations alongside your code, all whilst connected live to IP.

At the heart of this is ip2py, IP's purpose-built Python library, giving User Apps and Jupyter Notebooks direct, easy access to IP's database and tools, including access to well data, curves, zone sets, parameter sets and meta data.

With IP 2026, Python 3.14 comes embedded directly into the application, so there's no separate installation to manage, complete with the Python scientific stack, including pandas, numpy, scikit-learn, and matplotlib. Prefer your own Python environment? IP can use that instead, giving you access to whatever libraries you already have installed. This provides you with full flexibility to integrate Python how you want.

The Python tools are designed for petrophysicists, geoscientists, and AI/data engineers who want to automate routine tasks, build custom analyses, and apply modern data science, machine learning, and AI techniques directly within IP.



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Features

Native Python scripting environment running directly inside IP.

Access to well data, curves, zone sets, parameter sets, and log plots through the ip2py library.

Access the full Python library ecosystem, including pandas, numpy, scikit-learn, and matplotlib.

Option to use your own Python installation, with full access to your existing library environment.

Combine code, markdown documentation, equations, and results in a single document with Jupyter Notebooks and interactive analysis of your data.

Benefits

Extend IP beyond its native toolset without leaving the platform.

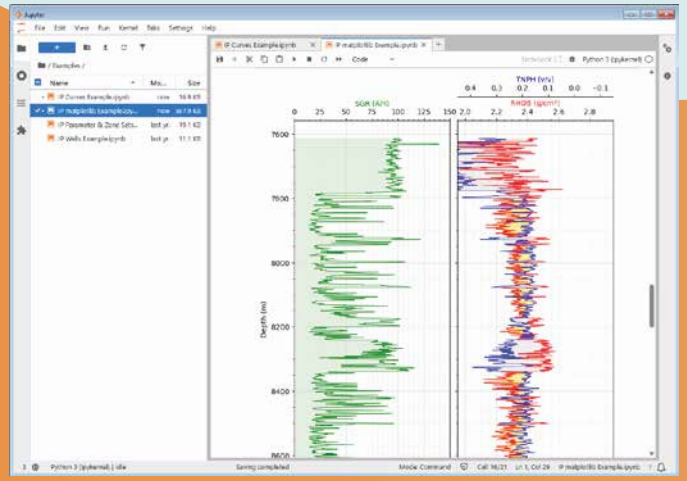
Unlock advanced analytics by bringing established Python libraries directly into petrophysical workflows.

Accelerate innovation through rapid prototyping of new workflows and ideas.

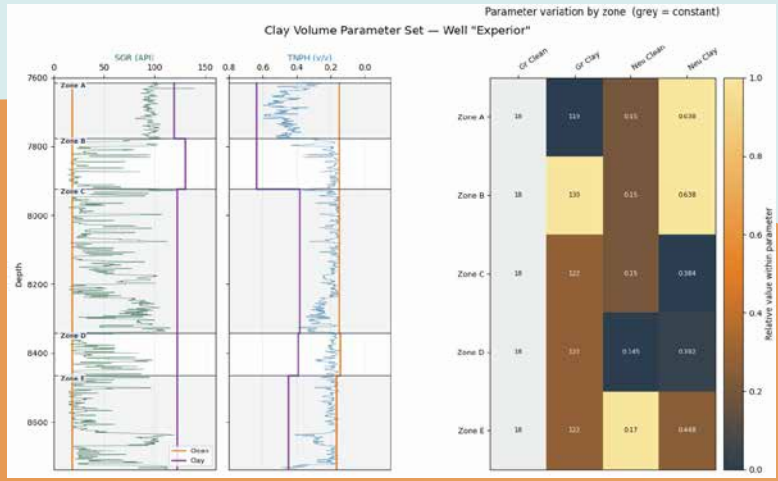
Remove setup friction when using the embedded Python interpreter.

Opens IP up to a wider range of users, from petrophysicists and geoscientists to dedicated AI and data engineering teams and improves collaboration.

Easy to share Jupyter Notebooks across teams as training material, examples, or project deliverables.



Jupyter Notebooks



Jupyter-Heatmap Parameters

Get in touch:

Email IPsupport@geoactive.com
Or **call**
USA: +1 713 489 3995
UK: +44 203 608 8024