

Petrosys Mapping for Petrel*

With a direct connection to Petrosys PRO, Petrel* users can extend their workflows with rapid and repeatable high quality subsurface map production, geologically intuitive contour based surface editing, a rich suite of geophysical and geologically focused surface modelling tools, and integration with other applications data stores.

Petrosys PRO Mapping

Petrosys mapping makes it easy to display well, seismic, surface, GIS and other data from Petrel* with flexible map rendering whilst adhering to corporate map standards:

- Reproducible production of families of OGIP and other field maps
- Reduced number of maps through map layering and grouping
- Dynamic conversion of coordinate reference systems
- Best in class contour displays
- Visual differentiation of historic seismic data

For petroleum engineering workflows, Petrosys adds mapping and analytical functions that might otherwise require more complex combinations of GIS and analytical tools:

- Map based analysis of reservoir attributes and field data
- Mapping and surface modeling from Excel spreadsheets
- Bubble maps and pie charts of production data
- Thematic mapping of production data

Surface Modeling

Petrosys PRO surface modeling provides leading edge tools for rapid subsurface and spatial computations without the additional complexity of a full framework model:

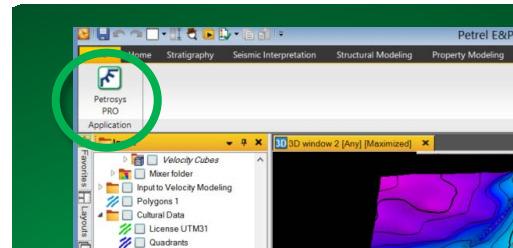
- Geologically realistic surfaces and fault polygons
- Graphical contour editing and surface patching
- Creation and use of fault polygons from Petrel fault sticks
- Contour and point editing of Petrel grids
- Grid merging including regional grids from alternate UTM zones
- Rapid velocity modeling, T-D conversion and well ties
- Interpretation of reservoir edges from contour maps
- Proven surface based volumetrics
- Task list automation with configurable run-time user input

Visualization

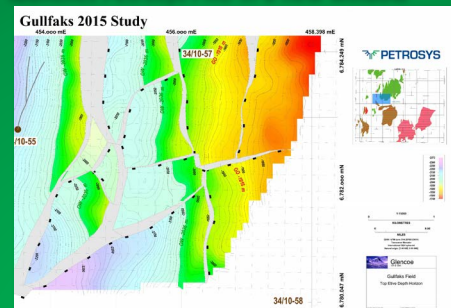
The Petrosys PRO 3D visualization option lets you explore the relationship between map views, wells, surfaces and faults:

- Clear rapid validation of surface modeling operations
- Composite displays with data from multiple sources
- Drape maps on grids to project land information to the subsurface
- High resolution raster image output
- Low cost of licensing and slim hardware requirements

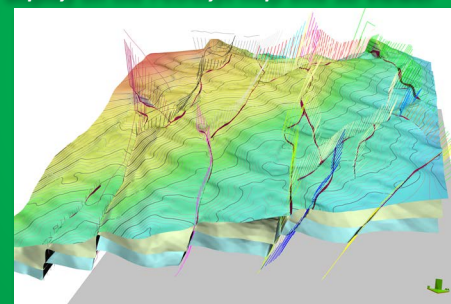
* Petrel E&P software platform is a mark of Schlumberger.



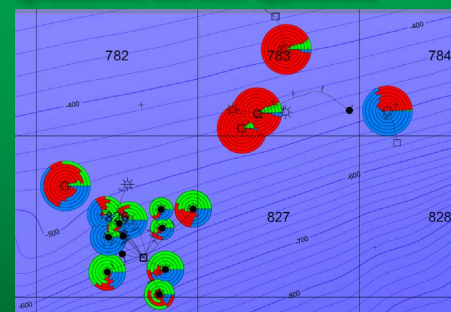
The Petrosys PRO icon in the Petrel toolbar launches Petrosys PRO in a new window



Drag and drop data from the Petrel project for display on the Petrosys map and 3D Viewer



Add more data from databases, spreadsheets and other applications



"We need to improve the quality of the maps that we work with."

Senior VP-Exploration, Houston.

Petrosys PRO or Petrel Mapping Module by Petrosys?

The **Petrel Mapping Module by Petrosys (PMMbP)** supplied and supported by Schlumberger as part of a Petrel installation, is a presentation mapping tool developed by Petrosys as a Petrel module.

- The **PMMbP** is an excellent solution for producing improved subsurface maps in a fully integrated Petrel environment with a single point of licensing and support.

The **Petrosys PRO** application supplied and supported by Petrosys offices worldwide offers mapping & visualization, surface modeling and connectivity & exchange tools.

- Petrosys PRO** comes into its own when your maps need the next step in content and flexibility; when EP data beyond that readily accessible in Petrel is needed; and to provide fast accountable surface modeling from a broad range of data.

Category	Functionality	Petrosys PRO	Petrel PMMbP
Map-Based Displays	E&P focused map rendering of well, seismic, surface, GIS and other data	✓	✓
	Legends, scales, title block and location maps	✓	✓
	Log signature mapping	✓	✓
	Bubble map displays	✓	✓
	Flexible overpost correction for annotations	✓	✓
	Display Petrosys and 3rd party data	✓	x
	Display subsurface data live in ArcGIS Pro	✓	x
Cartography and Geodetics	Edit a map template	✓	✓
	Manage company standard templates	✓	✓
	Rotated map template	✓	✓
	Project data into another CRS on map	✓	✓
Publishing	Print direct to Windows printers	✓	✓
	Workflow enabled map automation	✓	✓
	Export to GeoTIFF, JPG, PNG, Geospatial and Layered PDF	✓	✓
	Export to JPEG 2000, DXF and Powerpoint	✓	x
Petrosys Surface Modelling	Gridding of Petrel & 3rd party data	✓	x
	Petrosys surface based volumetrics	✓	x
	Stochastic Resource Calculator	✓	x
	Multiple grid merging functions	✓	x
	Petrosys time/depth and velocity tools	✓	x
	Generate fault polygons from fault sticks	✓	x
	Automated prospect identification tool	✓	x
	Grid arithmetic templates and conditional gridding	✓	x
Well-tie operators	✓	x	
Spatial Editing	Spatial editing of Petrel GIS and contours	✓	✓
	Localised Regridding of Edited Contours	✓	x
	Spatial Data Editing of 3rd Party Data	✓	x
	Map based surface and fault editing with localised re-gridding	✓	x
Interoperability	Petrel / 3rd party systems data exchange	✓	x
	Batch and automated operations	✓	x
	Can run offline from Petrel	✓	x
Licensing and Support	Licensing and support through Petrosys	✓	x
	Licensing and support through Schlumberger	x	✓

Petrosys PRO is designed for use with Petrel 2018, 2017, 2016.1+, and 2015.3+. It can also connect to GeoFrame databases.

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"Petrosys fits nicely between where Petrel ends and ESRI begins ..."
North American E&P applications support specialist.



Get in touch to learn more
www.petrosys.com.au/petrel