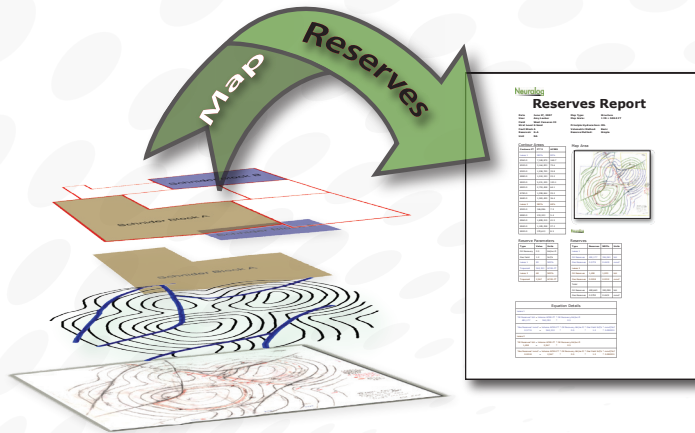# NeuraMap

Volumetrics, Reserves and Map Digitizing

NeuraMap is the industry's leading application for capturing map data, calculating volumetrics and reserves, data conversion, and geo-referencing. Any scanned, hand-drawn or computer created map can be used.

NeuraMap brings contour, basemap [symbol] and graphic data directly into your workflow from maps, cross plots, interpreted seismic and other types of data, new or legacy. Data capture is made simple with accurate and rapid auto-tracing and symbol recognition as needed. QC is made simple with data overlaid on the original image for immediate WYSIWYG editing. Raster maps can be geo-referenced and re-projected, without digitizing. A calibration grid provides visual and quantitative error analysis.

NeuraMap provides the ultimate flexibility for data capture. *NeuraMap* data can be organized in *Neuralog Desktop*, imported into NeuraSection or output in any industry standard format for other E&P applications.

Volumetrics and Reserves
Work with a range of reservoir maps (structure, net thickness, net pore volume, and net hydrocarbon pore volume) in either relative scale or absolute coordinates.
Calculate distances, areas, volumes and reserves including gas-in-place, oil-in-place, recoverable gas and recoverable oil.
Volumes calculated using contours contained by faults, leases and other boundaries.
Volumetric methods include standard and modified algorithms:
Trapezoid, Pyramid, Trap/Pyramid, Quadratic, Step, Ratio, Simpson, and 3/8 Rule.
Present your results with text or HTML reports and composite displays including maps, your company logo, and other graphics.

Automated Digitizing
Auto-tracing digitizes solid and dashed curves, as well as the basemap perimeter.
Auto-symbol search locates and digitizes wells, shotpoints and other point data.

Display and Merge Multiple Data Sources
Raster images and digital data from a variety of sources and with a variety of projections can be combined into a single file, loaded and merged as needed.

On-Screen Quality Control, Interactive Editing
Accuracy is quickly verified while digitizing. The trace overlays the image in an offset color.
Digital data, such as seismic lines or contour maps from other workstations, can be overlaid on the original image for QC .
Point and click interaction with auto-tracing and editing tools enable edits to be made immediately.

Benefits of NeuraMap

❶ Focus on analysis not data

❷ Map data how and when you need it for more timely decisions

❸ Get closer to prospect evaluations

❹ Confidence in using the industry leader

Worldwide Map Systems
NeuraMap, with Blue Marble Geographics, supports 12,000+ mapping systems and user-defined systems.

GeoTIFF Export (ArcView World Image File)
ArcView World Image Files can be created from scanned images for most E&P workstations.

Data Input

Scanned Images
NeuraMap accepts any standard color, grayscale or black & white image as input: TIFF, JPEG, PDF, CGM or BMP. Neuralog recommends the *NeuraScanner* for small or foldable maps and has available wide-format scanners from 36" to 54" width.

Data Files
AutoCAD DXF, GeoTIFF, Generic ASCII or Existing *NeuraMap* NDS file • Seismic Location Data • UKOOA and SEG P1 formats • Import as Lat/Lon or Grid values.

Data Output
NeuraMap works with *NeuraSection* plus industry formats including:
AutoCAD DXF • AutoCAD 3d DXF • ArcView Shape • ArcView World Image Affine (GeoTIFF) • ArcView World Image Exact • DGI EarthVision • GeoGraphix WellBase V2.0 • GeoGraphix Landnet CDF V1.0 • GeoQuest CPS3 • GeoQuest Finder • Landmark Graphics ZMAP+ ASCII • Landmark SeisWorks • PetroSys Mapping • SEG P1 Seismic • Tobin Base Map • UK00A Seismic • QuickPlot - immediate display of captured data • Formatted ASCII and HTML
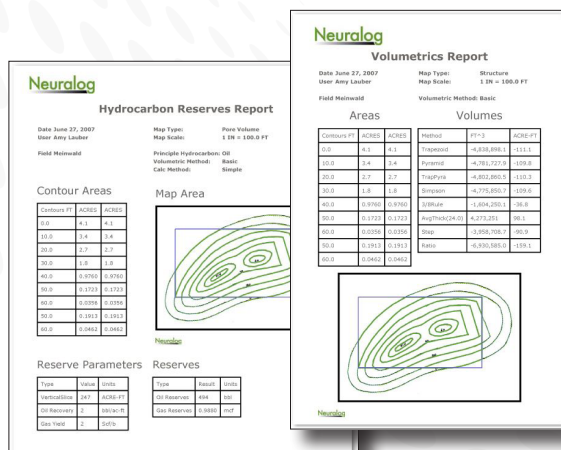
Value-Add Options:
- *NeuraScanner* to capture foldable maps (and logs) where and when you need them (large format scanners also available)
- NeuraLog for a complete digitizing solution

These options allow you to focus on analysis instead of data for more timely decisions and bigger impacts.

NeuraMap System Requirements
i5 Processor – 8GB RAM – 1920x1080 resolution – Windows 7 to Windows 10

"We couldn't have exploited this opportunity without Neuralog solutions, which are the most efficient on the market. We have made 700,000 bbo and 3 BCF so far."

Visit neuralog.com/case-studies to read the full case study.

Value Add Options

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Consider adding NeuraScanner to capture foldable maps (and logs) where and when you need them (large format scanners also available).

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Consider adding NeuraLog for a complete digitizing solution.