Sigma

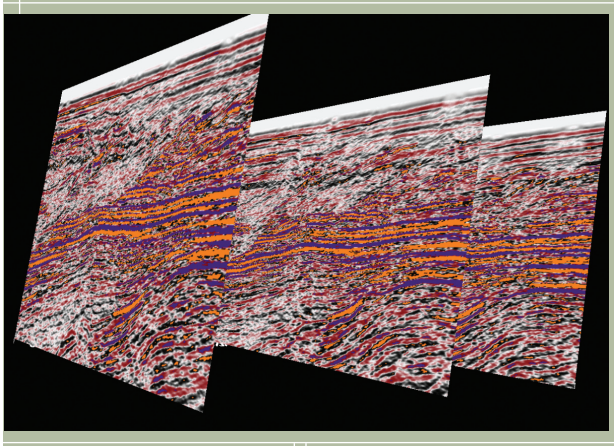
A SEISMIC INTERPRETATION AND GEOLOGICAL MODELING APPLICATION

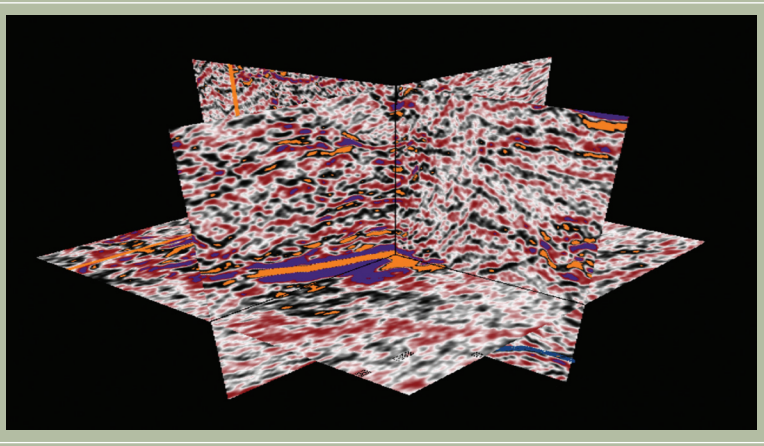
FEATURES:

- RAPID ASSESSMENT OF KEY STRUCTURAL AND STRATIGRAPHIC FEATURES
- INTERACTIVE DISPLAY FOR MULTIPLE INTERSECTING SEISMIC PLANES
- INTEGRATED DISPLAY OF HORIZONS, FAULTS, LOGS, AND GEOLOGIC TOPS
- GRIDDING AND CONTOURING WITH SEISMIC ATTRIBUTE EXTRACTION OVERLAYS
- DYNAMIC COLOR PALETTES, TRANSPARENCY CONTROL, AND 3D PERSPECTIVE VIEWS

BENEFITS:

- QUICK RESPONSE TIME IN HANDLING LARGE 3D VOLUMES
- EFFICIENT INTERACTION OF SEISMIC DATA FROM MULTIPLE PERSPECTIVES
- INNOVATIVE MAP PRESENTATIONS OF MULTIPLE DATA SETS AND INTERPRETATIONS
- EFFECTIVE CROSS-DISCIPLINARY COLLABORATION BY GEOSCIENTISTS AND ENGINEERS





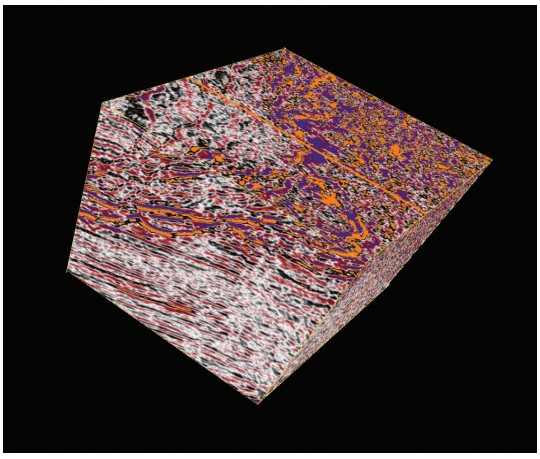
PLANO RESEARCH CORPORATION

Innovative Solutions.

Sigma provides an integrated platform for seismic interpretation and geologic modeling. Sigma's highly optimized graphics modules allow for quick response times in handling large 3D seismic volumes and generating displays as a basecube or along multiple planes. When combined with innovative capabilities to correlate seismic and well data, track horizons and faults, and extract attributes, a powerful tool now exists for an efficient, high value added interpretation of seismic data. Sigma also integrates with Galaxy (an advanced geological modeling and geostatistical software) and FlowSim (a 3D, three phase compositional reservoir simulator) to form a cohesive, integrated workflow for exploration and reservoir analysis. Sigma is also capable of exporting its data in standard industry formats for use in other geophysical and geological interpretation packages.

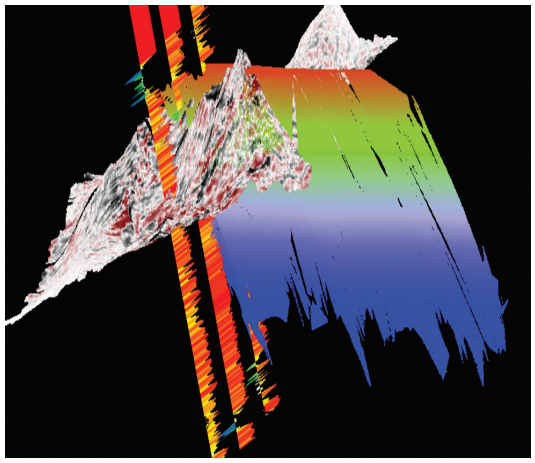
Multiple Seismic Display Options

- Interpret horizons and faults on a chair display. The chair display gives users the opportunity to pick horizons and faults on horizontal and vertical sections.
- Enable interpreters to interactively select and view multiple seismic lines. This allows them to fully control how their horizon picks are positioned along the seismic planes.



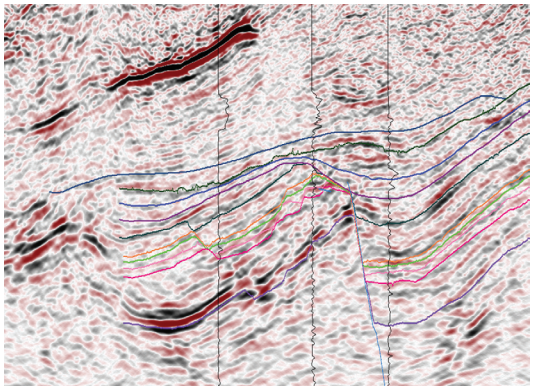
Display Faults and Well Log Curves

- Display horizon and fault interpretations along side their well log curves using the Sigma basecube.
- Control how each horizon, fault, and well log is colored and set individual color schemes for each set of data points.



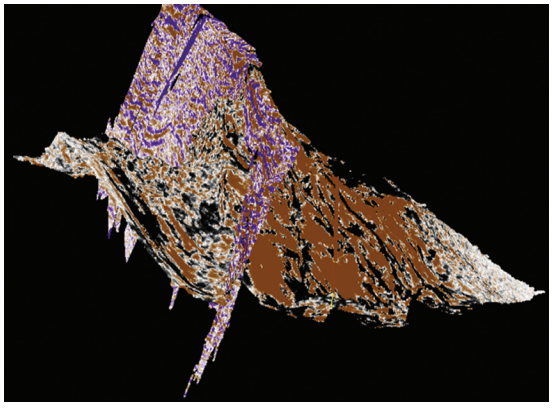
Merge Well Logs with Data

- Place well logs directly onto seismic data and continue interpreting horizons and faults.
- Provide users with a detailed analysis of the relationship between the well logs and the seismic data.



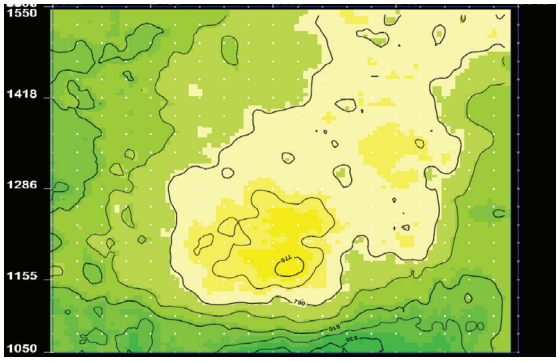
Display Horizons along with Faults

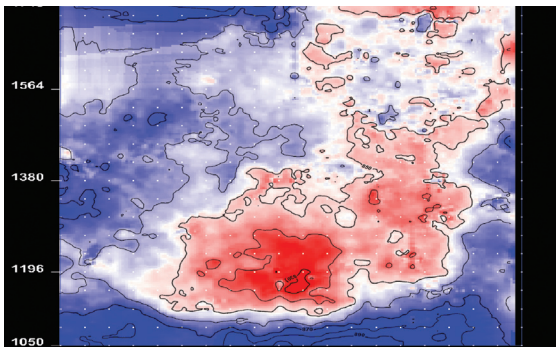
- Complete geometric consistency between fault planes, fault polygons, and horizon terminations at faults.
- Color-coded horizon termination points with horizons and faults and implement fault heaves to generate fault polygons.



3D Contouring and Gridding

- Mapping structural and stratigraphic interpretations using Sigma's interactive surface operations.
- Visualize results in innovative ways through map overlays, multiple 3D perspective views and color palette selections.





ABOUT PLANO RESEARCH :

Plano Research Corporation provides a wide array of sophisticated products for the oil and gas sector. Our patented technology has been designed to simplify and speed up the analysis of routine and complex problems faced by development and exploration geoscientists and reservoir engineers during all phases of the oil and gas exploration and development. Currently, we offer Galaxy, (a reservoir characterization application), FlowSim (compositional reservoir simulator), FlowStream (a streamline visualization tool), Transients (a pressure transient analysis package), WatOpt (a water optimization tool), PetroPhase (a phase behavior software package), ResBal (a material balance tool), PetroTrak (a full-field reservoir management website), and Sigma (a seismic interpretation package).

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