CoreLog

## A NEW EXPERIENCE IN PETROPHYSICAL ANALYSIS

FEATURES:

☐ LOG ANALYSIS AND PETROPHYSICAL MODELING FOR PETROPHYSICAL CHARACTERIZATION OF WELLS

☐ INTERACTIVE, INTELLIGENT AND CUSTOMIZABLE LOG PLOTS AND PETROPHYSICAL CALCULATIONS

☐ DATA IMPORT IN INDUSTRY-STANDARD FORMATS

☐ DATA TRANSFORMATION TOOLS FOR REALISTIC MODELING

☐ QUALITY CONTROL FEATURES SUCH AS DATA NORMALIZATION

☐ PLATFORM-INDEPENDENT ARCHITECTURE

BENEFITS:

☐ HIGHLY ACCURATE PETROPHYSICAL PROPERTIES BASED ON MULTI-ZONE CALCULATIONS THAT PROVIDE A GRAPHICAL PREVIEW OF THE PROPERTY TO ALLOW CUSTOMIZATIONS.

☐ COMPREHENSIVE DATA IMPORT CAPABILITY THAT ENSURES DATA INTEGRITY, STRUCTURED ORGANIZATION AND EDITING OF DATA, AUTOMATIC MAPPING OF KNOWN CURVE PROPERTIES, AND DATA TRANSFORMATIONS

☐ USER FRIENDLY, INTERACTIVE AND CUSTOMIZABLE DISPLAY OF PLOTS

☐ THE ABILITY TO CREATE TEMPLATES, PREVIEW ALL THE LOGS IN A SELECTED WELL, INTERACTIVITY CREATE AND UPDATE ZONES, AND MERGE LOGS AND CREATE DEPTH SHIFTS.


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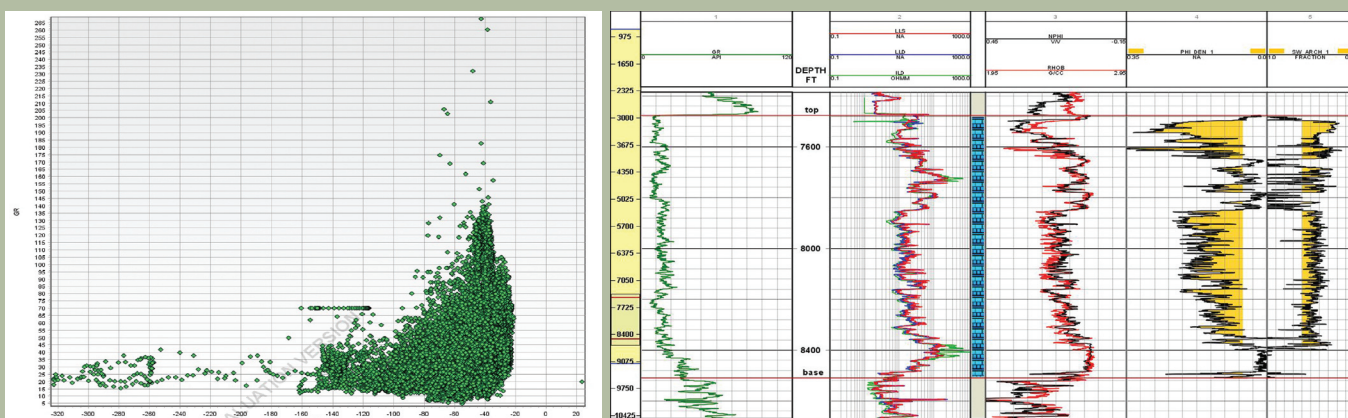
CoreLog is a log analysis and petrophysical modeling application, based on industry standard models, used for calculating petrophysical properties of a well(s). It calculates several properties, such as porosity, permeability, volume of shale, and others on a zone or well basis. CoreLog gives the user a straight forward and efficient way to import and transform data, view and plot information, calculate petrophysical properties and export data for use in other applications, such as Galaxy. It is a robust application with innovative data display capabilities - it can display several logs simultaneously. Both the plot and the related data are shown together, allowing the user to easily create markers and zones, customize plots, and export or print data. Data is presented in a user friendly structured format, with tabbed views, tables and tree views, which help to improve user productivity. User's efficiency is also enhanced by features such as the ability to create templates that store a snapshot of the current plot or calculation for later retrieval.

Data Import and Management

□ Import multiple LAS, GSLIB formatted data and core data files to transform, view and create new reservoir properties. Minimal user interaction in batch mode. Fast and Efficient import.

□ Load data in a thorough and user friendly import process where all known properties are mapped.

□ Define and edit grids, zones, surfaces, markers, facies, variables, and properties.

□ Transform "Measured Depth" to "True Vertical Depth Sub Sea (TVDSS)"

□ Perform quality control on data, such as Smooth, Normalize, Cull and Flip Polarity.

□ Store and display data in a structured format based on the LAS file structure
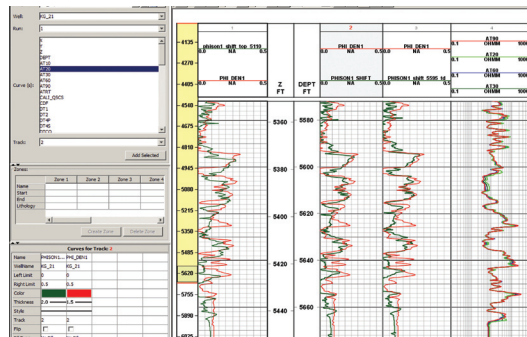
Data Export and User Interface

□ Preview full data export prior to saving to a file.

□ Print plots directly to the printer, rather than sending data to an image file.

□ Customize User Interface, such as tabbed views, tables and tree views. Error and issues with the data are highlighted and logged.

Displays and Plots

□ View and analyze data using a variety of display modules like base map, log plot, cross plots and histograms (under development).

□ Base map displays well positions in 2D.

□ Display a cross plot between any two well logs.

□ Plots can be exported in various formats like TIFF, JPEG, PNG.

□ Log Plots:
- Display core and log data
- Create templates using a template editor or an existing plot.
- Efficiently create and edit, mouse draggable, markers and zones
- Display multiple Lithology tracks to identify zones and lithology
- Create Curve fill or Baseline fills using an interactive and efficient interface
- Display Graphical Depth Scale to quickly navigate to interval of interest
- Edit plotted data properties using tabular display.
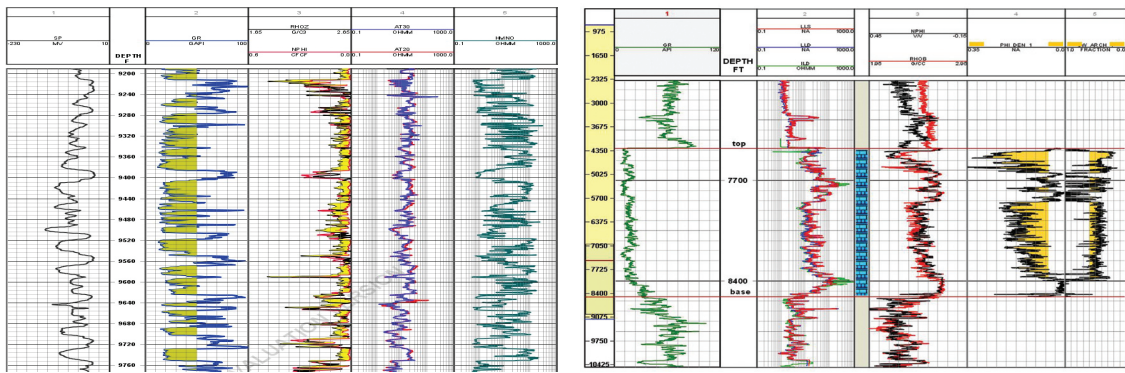
Calculations

□ Quick calculation and full calculation modules to calculate new properties, using industry standard equations.

□ Quick calculation module allows a quick-look calculation of the petrophysical property with minimal user input.

□ Full calculation module allows a more specialized calculation using the concept of zones.

□ Instantaneous plot and customization capability for the calculated property.

□ The properties that can be calculated are
- Shale Volume (Linear, Larinov, Steiber).
- Porosity from Density log.
- Porosity from a Sonic log (Wylie, Field OBS).
- Porosity from a neutron log.
- Porosity from Density neutron logs. (Bateman Konen, Apparent Matrix).
- Permeability.
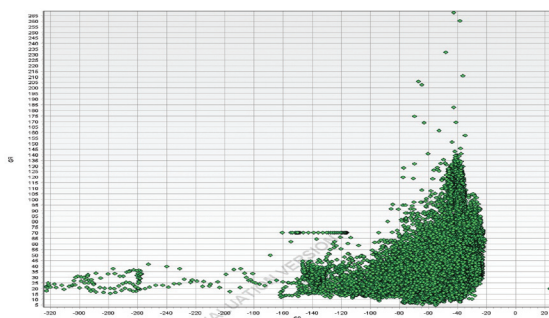
Plano Research Corporation provides a wide array of sophisticated products for the oil and gas sector. Our proprietary technology has been designed to simplify and speed up the analysis of routine and complex problems faced by development and exploration geoscientists and reservoir engineers during all phases of the oil and gas exploration and development. Currently, we offer the following products:

FlowSim (a black oil and compositional reservoir simulator),

FlowStream (a streamline visualization tool),

Transients (a pressure transient analysis package),

WatOpt (a waterflood optimization tool),

GasOpt (a gas field optimization application),

PetroPhase (a phase behavior software package),

PVT (a fluid property data application),

ResBal (a material balance tool),

PetroTrak (an online well and field management application),

CoreLog (a petrophysical interpretation tool),

GeoPC (a reservoir correlation package),

Galaxy (a reservoir characterization software),

Sigma (a seismic interpretation package), and

Oil3D (a gas, oil, and water simulation tool).

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