

## Advanced Tools for Analyzing Drilling Data

Empowering companies to improve their decision processes by analysing, learning and organizing their knowledge.

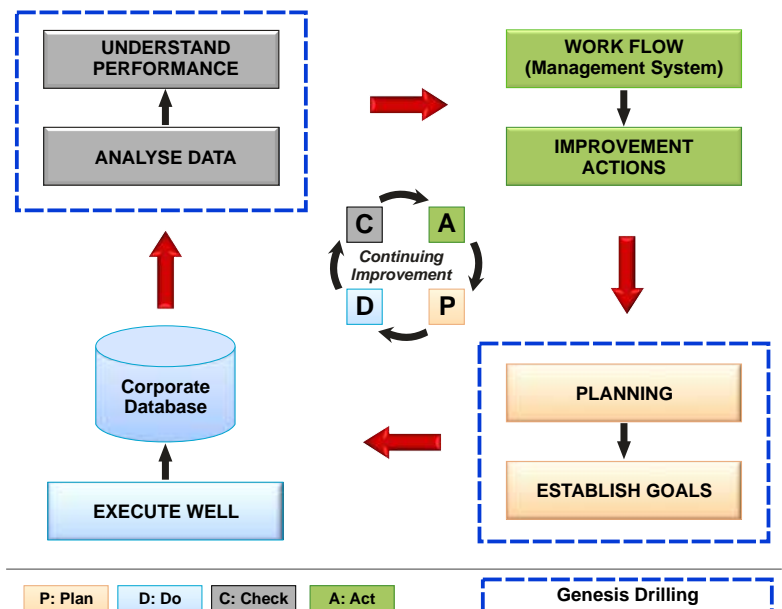
Genesis Drilling allows the user to capitalize on historical data by identifying potential areas of improvement for future drilling operations. Genesis performance analysis follows a methodology to utilize the collected information in the most effective way.

### Benefits

- Streamline planning process based on historical data
- Facilitate planning through Time Analysis and NPT Analysis
- Single and Multi Well analysis
- Transform data into Knowledge
- Process improvement
- Easy data browsing
- Organizational learning
- Benchmarking.

### Values

- Save Time and Cost.
- Improve your process.
- Learn from the past.
- Understand operational risks.



Genesis Drilling allows the user to rapidly generate Time vs Depth information and AFEs that are based on historic wells. Quality controlled data is utilized to derive probability distributions for well execution times and subsequent costs for the planned well.

# Genesis Drilling

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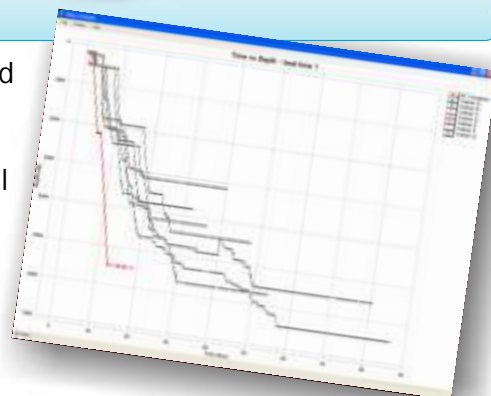
### Organizational Learning

The Learning Curve is used to identify and measure whether the company is improving or not for every category of operational time. It allows users to effectively utilize collected information of historic drilling operations. Multi wells learn curve analysis indicates the organizational learning and can be used to determine potential areas for improvement and for evaluation of the impact of new technologies on future operations.



### Technical Limit

Genesis Drilling allows the user to analyse historical wells and produce a Time vs Depth that clearly shows estimated times for operations based upon best and worst case scenarios. It results on a Time vs Depth plot with a Theoretical Technical Limit based on offset wells previously selected.



### Benchmarking

Genesis Drilling allows users to identify where the company has been efficient in terms of time in different areas. It allows managers to pinpoint exactly where the efficiencies are and use them for benefit of others, less efficient, processes.

### Statistical Time vs Depth Analysis

The Time vs Depth analysis allows the user to construct an operational sequence that is the basis for the new planned well.

The program then calculates statistical times for drilling operations per hole section from historic well data. These are used as input for a risked estimation of time versus depth through a customizable Monte Carlo simulator. The user can modify the distributions or alternatively use deterministic values for selected operations.

The simulated time vs depth curves (P<sub>low</sub>, P<sub>mean</sub>, P<sub>high</sub>) are used in the AFE module, for uncertainty in Cost.

[www.genesispetroleum.com](http://www.genesispetroleum.com)