

# IFS Energy & Resources – Well Test



Well test management, multiphase flow rate calculation and reporting.

Well Test provides a user interface that allows operators and engineers to plan, execute, capture, calculate, and analyze well test data in a consistent manner, independent of any specific control system and/or data historian.

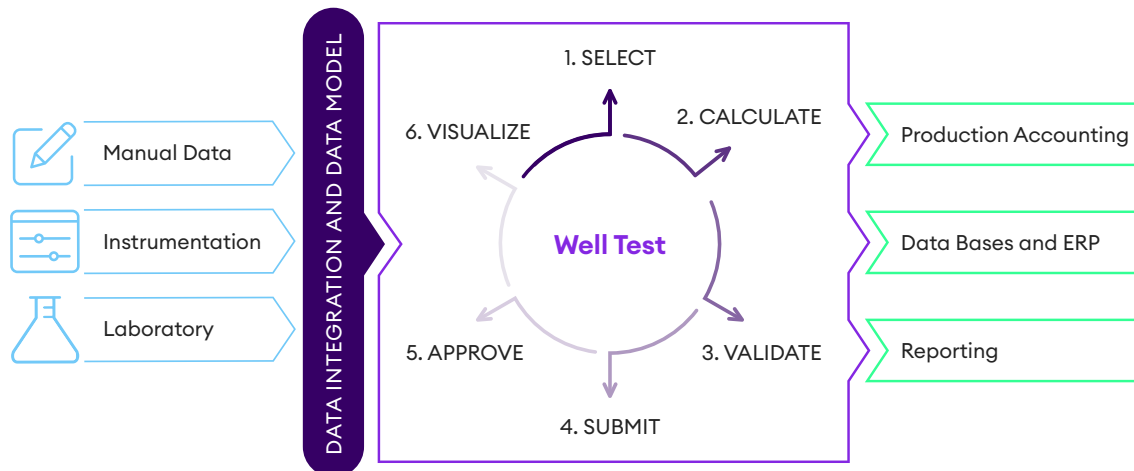
## Improved efficiencies

- Improved data accuracy
- Streamlines the well test initiation, validation and approval process
- Integrated approval and validation workflow

## Greater value

- Real time or retrospective testing
- Removes manual data processing
- Full audit trail

The well test process is one of the most critical functions in an oil and gas business. Test results are used for analysis, forecasting, and end-of-month production reconciliation and allocations, which form the input to a number of key production decisions and management processes.



## Benefits



**Enables** operators and engineers to perform well tests across multiple control system environments over the intranet



**Removes** the implicit overhead incurred by solutions deployed within the control domain



**Streamlines** the well test initiation, validation and approval process



**Eliminates** error-prone and time-consuming manual data entry/manipulation process



**Leverages** structure and data source integration available in Server and provides seamless integration with Operational Intelligence



**Ensures** regularity compliance with well test scheduling and full auditing of well test dates, data, results and approval processes

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## Features

- Abstraction of the well test process from the 'Control System' domain to the company intranet
- Abstraction of the well test process from the well test data sources (e.g. utilise multiple historians, databases etc. as sources for well test data)
- Automatic scheduling of well tests based on well priority
- Default library of test methods and multiphase flow rate calculations such as Test Separator, MPFM and supports manual entry of test results
- Interfaces to the IFS Energy & Resources – Operational Intelligence Server Data Dictionary, utilizing Server hierarchies and templates
- Ability to perform multistep well test (e.g. multiple choke settings in a single physical well test)
- Ability to perform comingled well tests
- Ability to perform well tests automatically in line with or retrospectively of the physical well test (e.g. based on well valve status)
- Tests approval and validation workflows
- Capturing of lab results for each test performed (or integrate to LIMS system to obtain qualities)
- Ability to automatically submit approved test results to external system (e.g. for allocation or reporting purposes)
- Support comprehensive users security configurations
- Full audit trail

### Well Test Interface

- 1 Actual well test period
- 2 Raw well test data (well and test equipment parameters)
- 3 Select stabilized period, using the date time picker or by moving hairlines in the trend
- 4 Laboratory/Analyzer results captured here

The screenshot displays the 'Well Test Details' interface. At the top, it shows 'Test Selection' for 'Schola-C-1' on '04-Aug-2012'. Below this is a 'Well Test Information' section with a graph showing pressure and flow rate trends over time. A table on the right lists 'No. of Previous Results' with columns for 'Results', 'Selected Period', 'Duration', 'Choke', 'FPM', 'FHT', 'FSP', 'TSP', 'Sep Oil Rate', 'Sep Water Rate', 'DP', 'Gas Rate', 'Sep Liquid Rate', 'Net Oil Rate', 'WIC', and 'Produced GOR'. At the bottom, there is a 'Manual Entry' section for 'Submission Time', 'Engineers Name', 'Zone', 'Submitter's Comments', 'Approver's Name', 'Approval/Rejection Time', and 'Approver's Comments'.

- 5 Previous and current well test results
- 6 Submitter and Approver details and comments

## Find out more

For more information on optimizing people, data, analytics and workflows using integrated production software, visit: [www.ifs.com/well-test](http://www.ifs.com/well-test)

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