



CUSTOMER
Total

INT PRODUCT
GeoToolkit.JS

INDUSTRY
Geoscience

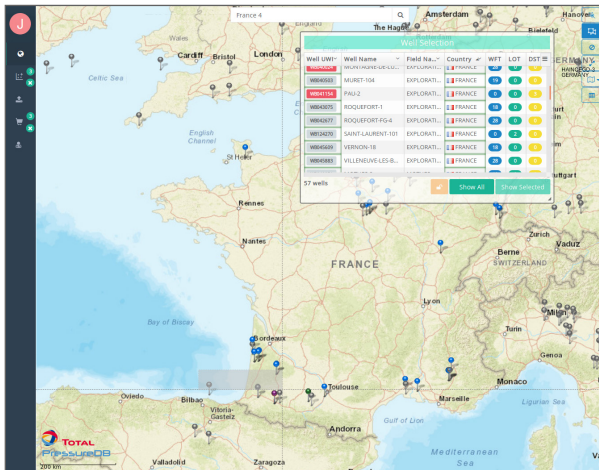
WEBSITE
total.com

Total is the world's fourth-largest oil and gas company, as well as a major integrated player in low-carbon energies. Ranked among the Top 100 Global Innovators, Total is committed to finding new ways to streamline operations and deliver solutions and tools that provide insights for their team.

CHALLENGE

In their typical process, Total receives pressure data from affiliates, but in a variety of formats. Using that data to gain valuable insights has traditionally been a challenge; it requires manipulating multiple files and working with complex Excel formulas, which is time-consuming and error-prone.

Total needed an easy-to-use pressure data warehouse that would allow users to view and use pressure data for projects such as basin scale exploration, prospect evaluation, and reservoir model construction.



Map and full text-based search



Data table view and graphical interpretation

“Thanks to PressureDB and its standard format, our data is centralized, with guaranteed quality and stability. Its friendly and responsive web interface ensures easy access for Total’s geoscientists worldwide.”

— **Ming Yang**, Formation Tester Specialist, Total

INT SOLUTION

Total worked with INT to create PressureDB, a robust web application designed to allow users to access and analyze pressure data through a friendly web interface. Pressure data is imported based on Excel templates (WFT, LOT, and DST) or XML files (COP TOOL box), and wells’ general information is issued from the Total in-house well database. Data import workflow allows users to perform assisted QC on pressure information and associated metadata. Once the data is imported, users can compare multiple wells’ pressure data quickly and accurately, saving time and reducing errors.

PressureDB keeps data confidential and secure using the Total SSO mechanism. Data can be accessed according to user profile types either at the well or

pressure data level. A powerful user management interface allows managers or admins to add or change user levels, region, and permissions as needed.

The map search functionality allows both spatial and text search, with multiple selections possible. Users can load searched data and view formation pressure and fluid head quickly.

Built using an NGINX web server for static content, reverse proxy and SSL, AngularJS for application code, INT GeoToolkit.JS for data visualisation, and Bootstrap Admin template for the web site design, the backend uses Node.js to manage requests and communicate with the database servers.

ABOUT INT

For more than 25 years, INT has been a leading software provider of Advanced Data Visualization solutions and platforms used in business applications for Upstream E&P and other technical industries. INT Software uses the latest technologies such as HTML5 and JavaScript to enable cloud-friendly and mobile-responsive solutions.