iWIT™ is the leading asset integrity management software solution for underground gas storage (UGS) operators internationally. A highly configurable system, iWIT can be customised to the existing data systems and required functionality for each customer, adding real value to operations.

As well as successfully delivering iWIT™ to Europe’s largest UGS operators, our oil and gas experience across all continents emphasises the versatility of the software. iWIT™ has been installed on and offshore, at new and mature facilities; some with no instrumentation in place and some which have been automated for over a decade. Our strong track record means we understand our customers’ needs. iWIT™ ensures alignment with API RPs 1170 and 1171, ISO 16530-2 Well Integrity in the Operational Phase, PHMSA reporting requirements and other regulatory and best practices.

iWIT™ key features:
- Complete visibility of well integrity management processes
- Data integration from other systems and from manual sources
- Rapid, systematic and proactive identification of integrity threats
- Notification of wells operating outside safe parameters
- Multi-level data access from company to individual well
- Comprehensive and easily accessible well information for analysis
- Data on well stock status available at any location or time period
- Flexible data tabulation and graphing options
- Clear reporting formats including well life-cycle reporting to show the full history of changes, anomalies, tests and other events
- Consistent, automated risk assessment workflow and well risk-ranking (failure action matrix)

iWIT™ key benefits:
- Improved safety
- Enhanced cost efficiency for underground gas storage operations
- Early detection of well integrity failure and notification of anomalies
- Support for proactive maintenance
- Identification of developing well integrity problems and trends
- Increased uptime and reduced number of well shut-ins
- Improved control of contractor activities
Customer feedback

What were the main drivers for deciding to purchase iWIT?

“The user-friendly interface to enter data and the feedback received from colleagues who have previously used Wood Group.”

What are the main benefits (especially as a UGS operator)?

“Having a single system for all collected data about the component features of the wellhead, with their status and pressure trends.”

Do you expect to expand the use of iWIT across your other operations?

“Yes, we will expand to all the wells we operate.”

Would you recommend iWIT to other UGS operators?

“Certainly.”

Andrea Gabbiani, Well Integrity Manager, Snam Rete Gas, Italy

Analytical & risk evaluation capabilities

iWIT is more than just a user-friendly way to access databases of results – it carries out real-time analysis of data. Mean-time-to-failure (MTTF) analysis is available for evaluating the reliability of tested valves such as subsurface safety valves (SSSVs).

Annulus pressure data is trended and compared to wellhead pressure or temperature readings to distinguish thermal and sustained annulus pressure. Evaluating the correlation of adjacent annuli pressure readings helps to identify well communication issues.

Production tubing corrosion evaluation is based on real-time data sourced from semi-continuous or daily readings.

Ensuring safe operations as the well matures, iWIT allows maximum allowable annular surface pressure (MAASP) calculations to be completed on real-time data, also accommodating tubular wall thickness loss.

Integrity test results are automatically evaluated to provide consistent, real-time risk management as defined by API RP 1171.

Data integration

iWIT interfaces to existing database systems, including WellView, OpenWells, Maximo, SAP, PI and IP21, so there is no duplication and minimal data entry effort. Where current data collection systems are manual, we will pre-load the software with legacy data to ensure a fully functioning system.

Task scheduling

Tracking testing and maintenance activities is easy with a customisable schedule of upcoming/current and overdue tests, maintenance activities and repairs, including:

- SSSV, Xmas tree and wellhead valve tests/greasing
- Visual inspections
- Ad-hoc tests for individual wells
- Annulus pressure readings
- Site inspections
- Wells operating under dispensation

Ongoing support is provided by our software team. Well Integrity or iWIT training can be arranged for groups of individuals depending on requirements.

To find out how iWIT can deliver well integrity management to your UGS facility today visit:

www.woodgroup.com/digitalsolutions

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