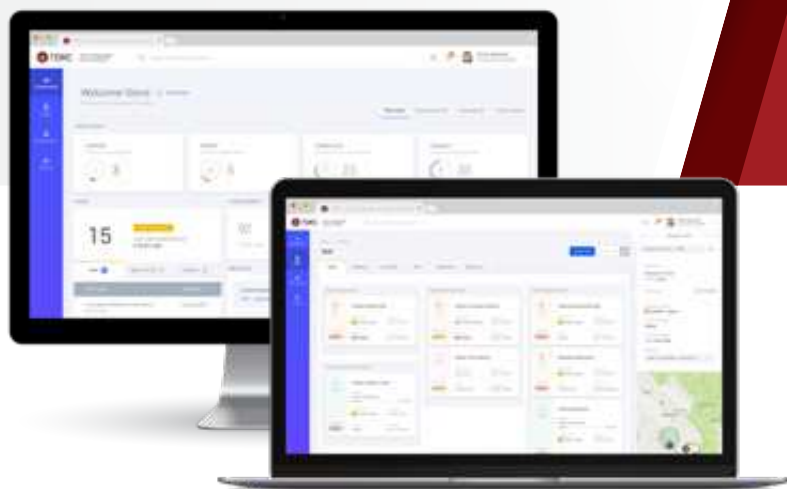




TOTAL OPERATIONS,
RISK & CONTROL

ENTERPRISE RISK MANAGEMENT



WELL INTEGRITY, RISK MANAGEMENT AND COMPLIANCE FOR ALL WELL OPERATIONS

OVERVIEW

TORC is an Enterprise Risk Management platform that provides end to end solutions for all well operations, addressing well integrity, environmental, regulatory and risk assessment and mitigation for the oil and gas industry. Subsequently increasing revenue, reducing costs, environmental impact, improving safety and productivity.

Organize, plan, notify, execute, schedule work, forecast requirements, report, and manage data submissions for all Operators/Service co's, to the Regulators. TORC will automatically notify all participants in the compliance process, schedule operators' work/requirements to meet regulations, and seamlessly make available, and submit data on performance to the appropriate regulators.

More Information: www.resourceenergysolutions.com

Solution Summary

- ✓ Well Life Cycle Asset Management
- ✓ Well Life Cycle Integrity Management
- ✓ Risk Management
- ✓ Environmental Management
- ✓ Compliance Management
- ✓ Liability Management
- ✓ Higher Rate of Return (ROR) on Investments
- ✓ Reduced Failures and Unplanned Repairs / Maintenance
- ✓ Increased Shareholder and Stakeholder Value
- ✓ Enhanced Industry Leadership

KEY BENEFITS

Regulators Benefits:

- ✓ Help operators and regulators organize, plan, execute, report, inspect and make informed decisions
- ✓ Workflows for all submissions of the respective well operations data to the Regulator through a new digital data submission process
- ✓ Improved incident prevention and reporting
- ✓ Establishing industry KPIs (key performance indicators)
- ✓ Guidance for strategic planning
- ✓ Ability to focus on underperforming activities, companies, projects or regions
- ✓ Reduce regulatory compliance complexity for the industry
- ✓ Reduce operators' calls to the regulator for interpretations and training
- ✓ Cost-effective regulatory compliance
- ✓ Enhanced audits as operators compliance records will be readily available and accessible
- ✓ Improved data quality upon submission
- ✓ Captures all regulatory standards and ensures best practices for service companies as imposed by the operators
- ✓ Basis for regulatory compliance continuous improvement
- ✓ Enhanced cross-disciplinary information for data access and sharing within operators
- ✓ Increased public confidence
- ✓ Regulatory excellence and credibility
- ✓ Facilitate learning & sharing of Industry and regulators best practices and standards amongst regulators.

PERFORMANCE

The application will support the Oil & Gas Upstream industry throughout its entire Life Cycle: Mobilization, Drilling, Completion, Production, Interventions, Maintenance, Recompletions, Re-purposing, Suspension, and Abandonment.

Manage all aspects of the Well Operations and Well License Applications and from a regulatory compliance perspective including the following:

E&P and Operators benefits:

- ✓ Organize, plan, execute, report, inspect and make informed decisions
- ✓ Manage all critical well operations from any location
- ✓ One common regulatory reporting solutions for all operators
- ✓ High quality data to provide more cost effective, enhanced solutions with better outcomes
- ✓ Improved incident prevention and reporting
- ✓ Well life cycle risk management
- ✓ One solution to report to all regulators world wide

Benefits to all stakeholders (including landowners, other industries, other government agencies, NGOs etc):

- ✓ Complete regulatory compliance
- ✓ Improved efficiencies
- ✓ Lower costs for all stakeholders
- ✓ Reduced environmental footprint
- ✓ Reduced liability
- ✓ Improved safety

Well Operations Regulatory Compliance Management - Managing Events, Activities, Inspections and Reporting

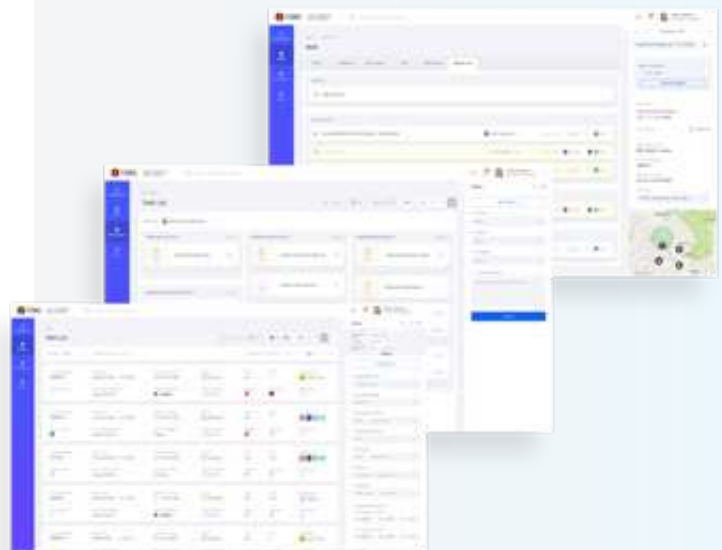
- ✓ Well Drilling Data
- ✓ Completion, Fracturing and Well Interventions Data
- ✓ Well Packer Tests
- ✓ Drilling Waste Data
- ✓ Incidents – Casing Failures
- ✓ Incidents – Surface Casing Vent Flow/Gas Migration (Reporting and Monitoring)
- ✓ License Abandonment
- ✓ License Suspensions
- ✓ Field Surveillance - Inspections
- ✓ Field Surveillance - Notifications
- ✓ Monitoring pilots, enhanced recovery schemes, special or experimental projects or research projects
- ✓ Well stimulations (fracturing and acidizing etc.)
- ✓ Managing areas with unique drilling or operational challenges
- ✓ Asset Management



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TORC

TOTAL OPERATIONS,
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KEY FEATURES

- ✓ Web based with remote offline data capture and submission capabilities for all the operators, service co's, inspectors, engineering co's and consultants.
- ✓ Multi-tenant application – with the ability for easy web deployment to a high volume of users to manage an unlimited # of wells.
- ✓ Integrated with the Well Data Management System (WDMS)
- ✓ Task based workflows – Business rules will calculate regulatory compliance tasks which can be assigned to individuals. **Easy to add new rules or change existing ones.**
- ✓ Ability to identify the countries, provinces, states or other jurisdictions entire well inventory compliance status through BI reports, dashboards, and analytics **(Critical for strategic planning)**
- ✓ PPDM database for the Regulator with real time updates from the field.
- ✓ GEO-location capabilities for inspections of assets at each well operation's location. Lat-Long verification can be done on-site
- ✓ Ability to take real time photos of the assets
- ✓ Change tracking of who, when and what was changed

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