Technical Services Solutions

The Technical Services group at Wild Well provides world-class well control technical advisory and project management support to ongoing operations working within the client office. Client personnel are involved daily in the planning, engineering and operation support. With a clear focus on well control for a wide range of operating environments, including exploration, deepwater and HTHP, the Technical Services group also provides a ready access to Wild Well specialists to assist in the development of integrated solutions based on years of well control, resolution and project management. The team can provide the following dedicated support for your operations.

Office-Based Specialists (Well Control)

There is a growing demand for full-time, dedicated Wild Well personnel to support client's ongoing operations in their office. This allows the individual to be involved in planning and daily operations so they can proactively address well control situations. The activity set will be tailored to the client's needs and may include, but may not be limited to:

- Participation in well control-focused risk assessments and mitigation development
- Participation in Drill Well On Paper (DWOP), Complete Well On Paper (CWOP) and pre-spud meetings
- Observation of daily operations from a well control perspective
- Provision of periodic reviews of client's well control activity
- Recommendations for targeted training for well control competency
- Development and tracking of well control key performance indicators (KPIs)
- Support for first responders during a major event
- Performance of well control equipment specification review
- Completion of well control gap analyses
- Execution of well control calculations

Field-Based Specialists (Well Control)

To complement the office-based activity, dedicated field-based personnel can be provided to ensure regular review of field operations. The activity set may include, but may not be limited to, completion of the following:

- Well control equipment audits as part of commissioning
- Well control equipment audits as part of ongoing operations
- Kick drill assessments

Office-Based Specialists (Hydraulic Workover)

If an operator is getting ready to embark on a hydraulic workover program, Wild Well can provided full-time, dedicated Wild Well personnel, with a wealth of experience, to support the client's activity set. The scope of work may include, but may not be limited to:

- Development of a contracting snubbing strategy to deliver client objectives
- Development of key snubbing tender documents, such as:
  - Contractor's equipment technical specifications
  - Contractor's planned maintenance system (PMS) specification
  - Contractor's personnel competency requirements
  - Scope of work
- Review of snubbing unit commissioning and acceptance guidelines
- Review of snubbing logistical and support services, including, but not limited to, cranes, tankage and pumping services
- Review of snubbing well candidates prior to program development
- Review of snubbing contractor's well control bridging document to client's well control manual
- Development and tracking of hydraulic workover KPIs
- Development of specific well work programs with the client's engineering team
- Optimization of well preparation activity set before unit arrives on location
- Enhancement of operational readiness
- Optimization of operations
- Mentorship for client's staff

Field-Based Specialists (Mentors)

With a growing international rig fleet, many clients have identified the need for field-based mentors who can work with their staff and rig contractors. These mentors can provide additional support to the client's supervisor on location and ensure that operations are being conducted safely and efficiently. The mentor role has already been used effectively in many areas to boost drilling, workover and snubbing operations performance. The areas of support may include, but may not be limited to:

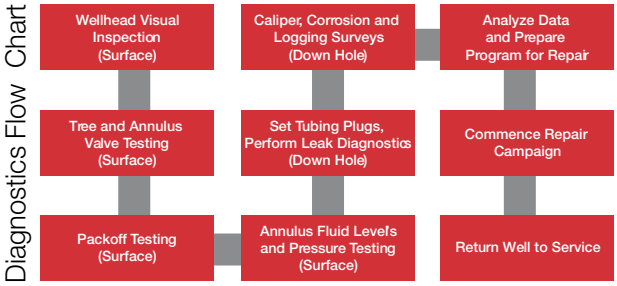
- Performance of site risk assessments and job safety assessments
- Review of operational readiness to conduct next operation
- Identification of move optimization opportunities
- Identification of operations optimization opportunities
- Performance and assessment of well control readiness drills
- Review of operational readiness for SIMOPs activity
- Review of rig contractor compliance with their PMS system
- Execute field root-cause investigations on significant non-productive time (NPT) events
- Troubleshooting of problematic situations, such as fishing, stuckpipe or lost circulation
- Participation in development and updates of evergreen Operations Risk Matrix
- Add specific items to a rig's Corrective Action Register (CAR) when items are identified

Project Management Teams

In addition to the dedicated specialists, the Technical Services group can provide additional resources to support a client's long-duration project activity. Whether this is a drilling, workover or abandonment project, Technical Services can provide additional resources tailored to support the client's operations. If required, additional specialists from the other Wild Well groups, such as Engineering, Marine, and Special Services, can be brought in to assemble the best possible team. If required, these efforts could be project managed with resources from the client's contractor base or other resources as needed.

Well Integrity Specialists

Globally, well integrity is becoming a growing concern. The older brownfields, as well as some greenfields, can present significant well integrity issues. The world-renowned experience of Wild Well and its subsidiaries is based on decades worth of solutions for client well integrity issues. Technical Services specialists assist clients in the evaluation of costly well integrity issues, providing a fully developed mitigation plan to ensure the quickest, most efficient resolution.



The activity sets will vary based on current field well integrity deployment level, but they may include:

- Acquisition due diligence investigations: Allow potential buyers to better understand the assets and quantify the well integrity issues and related liabilities they will inherit with the property
- Brownfield reviews: Identify trending problems prior to loss of production or well control event
- Surface well diagnostics: Generate a complete visual and radiographic investigation of each wellhead; provide a detailed schematic of the wellhead; upon request, test and verify condition of wellhead seals, tree and casing valves; perform repairs and apply a protective coating for tree, wellhead and surface casing
- Annular pressure management: Develop specific plan for annulus pressure management that will include regulatory reporting requirements; identify boundaries before specific intervention may be required to rectify the issue
- Downhole well diagnostics: Review by specialist of diagnostics such as bond logs, corrosion logs and casing inspection logs using the client's existing cased-hole logging contract; creation of forward plan through collaboration between client and specialist; specialist may also assist in development of well diagnostics and repair procedures for annular corrosion
- Greenfield project review: Verify new well compliance with international dual-barrier standards and limit future problems by implementing a prudent design
- Project coordination: Conduct development and implementation of a well integrity management system
- Audit: Third-party auditing and gap analysis of current well integrity systems

For additional information, please contact:

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