CASE STUDY

Design and Development

of Industry 4.0 based Predictive Well Integrity Platform

Client

Client is the world's leading Oil Field Services company, headquartered in the US

Business Challenge

- Challenge in obtaining insights about the integrity of subsurface, well head, and pipelines
- Well integrity problems are mainly realized after the failure leading to huge liability
- Increase in operational expenses related unplanned to routine well logging without a view of corrosion growth
- Operators invest equal time and effort on wells that are not prone to well integrity issues as forward-looking data is unavailable

ITC Infotech Solution

- Built advanced predictive well integrity methodology to assess and predict corrosion to recommend a mitigation action plan
- Designed risk analysis algorithms to accurately estimate financial, environmental, and HSE risk in well logging
- One-stop dashboard for data aggregation, visualization, risk analysis, and predictive well integrity results
- Built a scalable solution for accommodating multiple field assets and locations
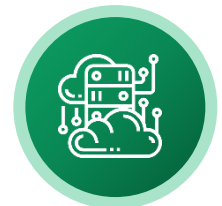
| Proactive Planning | Optimize Maintenance Cost | Adherence to Regulatory Compliance | Modular Solution to Accommodate more Services | Integrated Data Delivery Platform |

Business Benefits

Operational cost reduction by 10% through focusing on most critical wells

Reduction of well logging due to preventive maintenance carried based on the tool prediction

Visualization of well integrity for a field, allowed users to evaluate issues timely & suggest recommendations

Achieved compliance with regulatory requirements

About
ITC Infotech

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

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