Case Study

Interactive Oil & Gas Well Data Platform Development

to drive energy decisions with unified oil & gas data, price analytics & geospatial insights

PROJECT OVERVIEW

A US-based technology agency in the oil and gas sector was struggling with fragmented data sources and missed market opportunities because of the scattered access to pricing and production data. To address these challenges, they partnered with Rishabh Software to develop a unified oil and gas data platform.

Capability	Industry	Country
Data Analytics	Oil & Gas	USA

KEY FEATURES

We developed a unified geospatial platform that enabled access to comprehensive data for quick and efficient management of oil well locations, oil and gas lease management, well data analytics, and market assessment. The key features of this platform include:
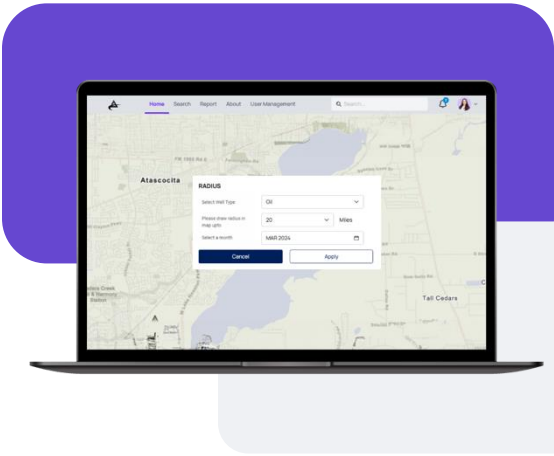
▷ **Detailed Lease Report Generation**

The platform generates comprehensive lease reports, providing valuable insights into lease terms, conditions, and market trends. Users can leverage these reports for in-depth market analysis and make informed decisions in competitive environments.

▷ **Radius Search for Well Analysis**

This feature allows users to search for oil or gas wells within a specific geographic area using a radius search tool and generating a report. The tool further offers search filters that help refine data as per field and lease.

▷ **Report Vault**

The platform includes a secure report vault where users can save generated reports and search parameters for future reference. This feature simplifies data retrieval and ensures that crucial information is always accessible when needed.

▷ **Geospatial Price Comparison Tool**

Users can instantly compare prices of oil and gas wells in any selected region by drawing a rectangular area on the map. This feature supports generating comprehensive reports, better pricing strategies, and competitive positioning by providing clear, side-by-side price analyses

CHALLENGES WITH EXISTING SYSTEM

▷ Data integration was nearly impossible without a conversion tool for merging datasets.

▷ Basic GIS tools were inadequate for detailed lease reports, hindering search capabilities.

▷ The lack of an alert system led to missed market opportunities.

▷ Users struggled to manually request essential price and tax details from the Comptroller's website.

▷ Decentralized data management made it hard to efficiently consolidate and access vital oil and gas data.
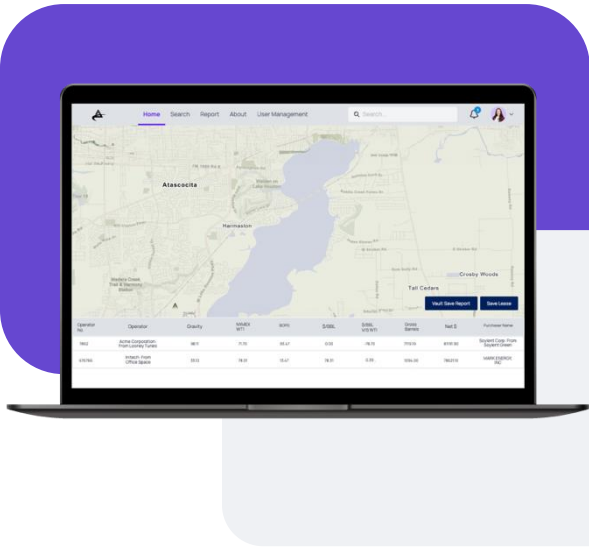
SOLUTION

Our team of skilled technology experts addressed key challenges including complex data integration, periodic information updates, and comprehensive search capabilities. The developed solution significantly enhanced user experience and decision-making.

▷ ArcGIS Integration

We integrated ArcGIS with customized mapping features into the web platform to facilitate data visualization. This addressed the challenge of data integration by providing a comprehensive map to visualize and analyze oil and gas well locations.

▷ Advanced Data Handling

We implemented a scheduler to automate the regular upload of extensive data related to oil and gas well leases, prices, production, and drilling permits. This new system ensures that the platform is consistently updated with the latest information.
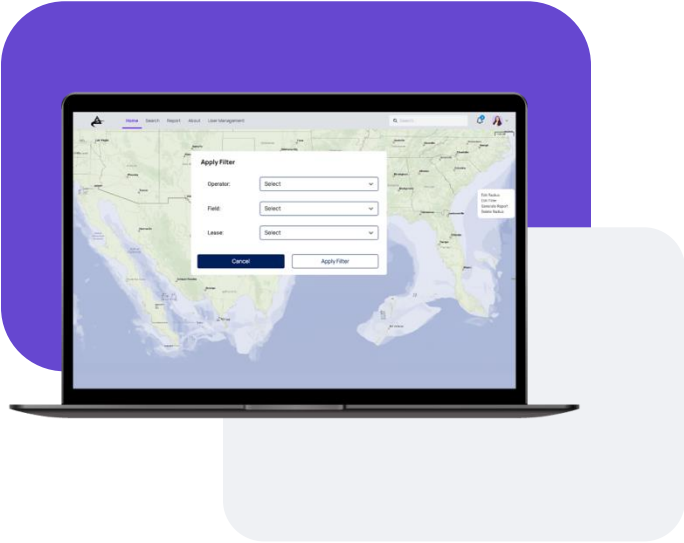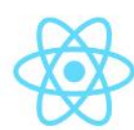
▷ Advanced Search Capabilities

We developed a powerful search functionality that allows users to input multiple search queries. Users can generate detailed lease reports with accurate oil and gas analytics for informed decision-making and effective management of data.

▷ Monitoring and Alerts System

We introduced a comprehensive monitoring and alerts system that allows users to set customized alerts and track changes in permits, purchases, and pricing within selected

TECHNOLOGIES & TOOLS

BENEFITS

51%
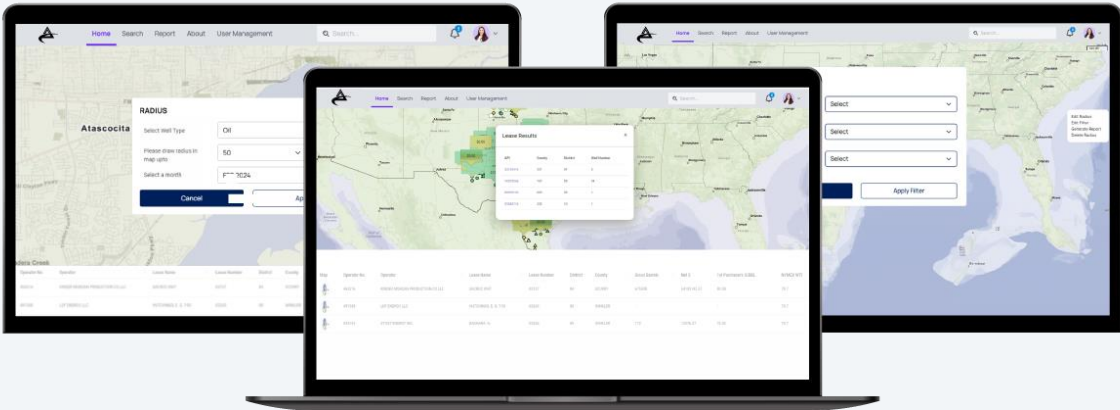reduction in the time required to access critical data

36%
increase in the accuracy of procurement decisions

42%
reduction in response time to market changes

PROJECT SNAPSHOTS

ABOUT RISHABH SOFTWARE

We are a global provider of enterprise-grade web, mobile, cloud, and analytics solutions. As ISO 9001 and 27001 certified software development company, we have two decades of service excellence delivering 1000+ successful projects globally, including the USA, UK, Europe, Middle East, and Australia.

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