

CASE STUDY

Enterprise Portal Manages Upstream Data GIS and collaboration solution ensure operational excellence



A global oil and gas company involved in the production of fuel, petrochemicals, and energy products sought a centralized oil well database. Instant access to upstream data – from lease documents to location maps and well logs – was a business imperative to take informed business decisions. The company partnered with Infosys to develop a portal for geospatial information management.

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Consolidated view of hydrocarbons

Infosys defined upstream data flow and data structure, and developed a Geographic Information System (GIS) portal to manage data across exploration and production assets. Our team integrated the GIS portal with the document management system, oil well production system, and well log and curve information database. Infosys developed a scalable architecture, and consolidated data of oil wells, land lease agreements, road networks, and enterprise assets.

The information management platform provides access to structured and unstructured data, including oil well files, logs, drilling reports, production systems, well headers, and working interest. Our solution optimizes map documentation and provides a map service to help geologists and geophysicists visualize oil well information. An intuitive user interface addresses usability and reporting requirements. Search tools extract accurate

information, while collaboration tools enable informed decision making.

Our team incorporated advanced functionalities in the GIS solution using Microsoft SharePoint, Microsoft Silverlight, Esri ArcSDE, and ArcGIS products and APIs. We migrated geospatial oil well data to the portal.

Enterprise data management



The Infosys GIS collaboration platform offers ready access to oil well files, logs, lease documents, and production reports. The advanced GIS map interface offers visualization of oil wells, pipelines, and facilities.

Our structured approach to document and workflow management provides user role-based access and manages the document life cycle, including version control of documents. Centralized data management facilitates oil well integrity management.

For more information, contact askus@infosys.com

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