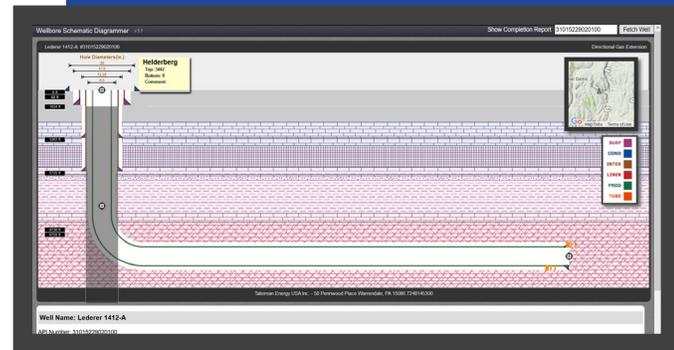# RBDMS WellBore

The Wellbore Diagram Tool draws well configuration and geology for easy interpretation by agency users. These diagrams facilitate assessment and understanding of wellbore configurations and potential risks. They are particularly useful for viewing during permit review, changes of well configuration, and when determining plugging requirements.

The tool draws the wellbore and each construction feature (such as wellbore hole, casing, cement intervals, bridge plugs and more). Also included is a feature to provide a "Completion Report " of the data contained in the relational database. Vertical wells only show a vertical segment, but directional and horizontal wells show a vertical segment and horizontal segment. The position of features along the hole is relative to their depth against the wellbore's total measured depth. The diagram is not to scale in order to show wellbore features in an easy-to-interpret manner.

KEY FEATURES

- Draw wellbore features
- Integrate with existing applications (using services)
- Integrates seamlessly with RBDMS Core, eForms and Data Portal
- Allow users to label features of interest with name and depth
- Show geology around well based on formation tops and bottoms collected during the drilling or logging process.
- Unique symbols to represent different features
- If sufficient data exists, a three-dimensional view of a well is displayed that can be rotated on three axes. For a multi-wellbore well, the wellbore being viewed is highlighted.
- Overview map showing well's location
- Data view of construction information can be displayed
- The creation of a service to provide transparent data feed

TECHNICAL SPECIFICATIONS

The Wellbore Diagram Tool is a web-based application that integrates with other applications by consuming services that provide wellbore construction and geology information. It was built with the following primary technologies:
- Microsoft C#
- Microsoft ASP.NET
- Microsoft MVC
- Javascript
- Google Maps API
- Node.js

Client
Hardware Recommendations
- 2GB RAM or greater
- 1024x768 screen resolution

Software Recommendations
- Modern Web Browser
  - Firefox
  - Chrome
  - Internet Explorer/Edge
  - Additional browsers may or may not be supported

Server
Hardware & Software Recommendations

Web & Application Servers
- Microsoft Windows Server 2008 R2 or greater
- Internet Information System (IIS)
- .NET 4.0+
- 1 Core 2.5Ghz CPU
- 2GB RAM or greater

Database Servers
This application consumes services and does not have it's own database.

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