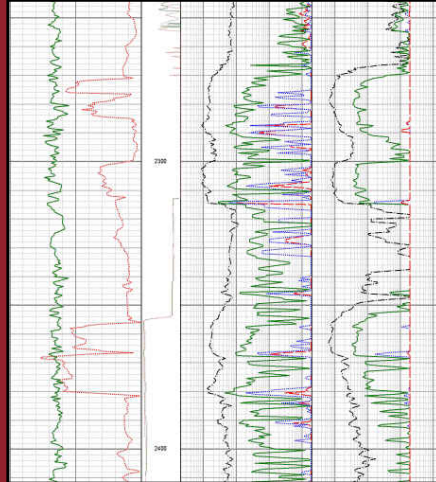


November 2009 Monthly Newsletter Engineering

Mapping and GIS may not always evoke engineering analysis but most of GOM³'s data pertains to engineering. With over 6 million monthly production records by completion, over 300,000 well tests and more than a quarter million well logs, engineering data dwarfs the volume of geoscience and land data in the system.



The core of engineering resources is the monthly oil, gas and water production data on 65,000 completions (and recompletions), starting in 1947. The completion records are aggregated to wells, sands, pools, fields and leases, which we keep current with the latest completion-level data. Production at all levels is mappable, as well as available in pre-made reports, charts and CSV downloads in both GOMsmart and ArcGIS.

Well tests are available through GOMsmart from both the Wells and Completions tabs, the Tables button on the GOM³ toolbar in ArcGIS or by clicking the well of interest in a map with the Hot Link Tool (red lightning bolt) for a pre-made report. Test data includes test duration, flow rates and pressures. Other data, such as the initial sand temperature and pressure data, are accessed by loading sands into the GIS and identifying the sand of interest.

Choosing Single-Feature Reports in GOMsmart or clicking on a well (in 2-D or 3-D) with the Hot Link Tool in ArcGIS gives you direct access to the corresponding Well Activity, End of Ops, Well Activity and BHP Survey reports. Scanned documents for Applications to Drill and Exploration Plans are available in the same way. All of the well log images released by the MMS are also available in

the same few clicks.

In addition to the latest reserves at the field level, GOM³ carries the MMS' annual estimates of oil and gas reserves from the year of discovery (or 1975, whichever is later). These data support examination of reserve "growth." A similar, but much less extensive time reserve series is also available on the sand level.

Facilities, broadly defined, extend from engineering information on completions and boreholes to platforms and pipelines. All four are mappable in GOMsmart and the 2-D and 3-D GIS. In 2009, we added 3-D models of all platforms, by type, and started carrying rigs as a separate, mappable variable. For clients who are also members of OOSA, all of their data can be directly access from within GOM³. These data provide details of drilling operations, mud weights and casing programs, updated by OOSA weekly.

Earth Science Associates (562) 428-3181

**Central Lease Sale 213
Spring 2010**

GOM³ Calendar

**User and Support Conference
October 2010**