

Baseⁿ

BASIN SPECIFIC PETROLEUM FLUID DATABASE

A basin specific database for the organization, storage, review, and manipulation of reservoir fluid analyses

GeoMark Research has launched **Baseⁿ**, an internet-enabled, basin specific database for the storage, review and manipulation of all petroleum fluid analyses. Specifically, **Baseⁿ** is a program that offers participating companies customized access to GeoMark's **RFDbase** Database. **Baseⁿ** allows participants to both choose the type of data needed and the geographical extent of the coverage. Thus, companies can acquire only the data of immediate interest without having to license all of GeoMark's global databases. Data can be purchased by region (country, basin, or block). In addition, participants in **Baseⁿ** can have new samples analyzed and added to the database at a highly reduced price.

The benefits and terms of this program are discussed in this proposal, and can be viewed at www.RFDbase.com. The website contains a demonstration routine allowing visitors access to all search and display functions on a limited set of selected samples. Please contact GeoMark for a full demonstration of the **RFDbase** Database and price quotations for customized **Baseⁿ** programs.

OBJECTIVES

The **Baseⁿ** program is intended to give participating companies the option to license only that portion of GeoMark's **RFDbase** Database that is necessary for a current project. Licensing contracts can be customized to fit time, geographic, and data type restrictions to more fully meet the participating companies needs.

Some of the specific functions of **Baseⁿ** are listed below.

- Data from each **RFDbase** module (Oil, Oil Seep, Source Rock Extracts, Gas, PVT, Flow Assurance) are available via the **Baseⁿ** service (see Figure 1).
- Data can be acquired from any geographic region, including country, basin, block, or lat/long segments.
- Participants receive access to any new data sets that are added to the **RFDbase** Database during the licensing period.
- If a previous GeoMark regional study included an interpretive report for the region of interest, this report will be provided to the participant.
- Participating companies can submit new samples for analysis and inclusion in the **RFDbase** Database for little or no charge.

DATABASE DESIGN

RFDbase has been developed as an interactive web interface overlaying a Microsoft SQL Server database populated with petroleum fluid data. The database applications are hosted off-site offering electronic and physical security, as well as broadband access for member companies. Page three of this proposal lists each of the data modules currently housed in **RFDbase** and available via the **Baseⁿ** service.

The **RFD**base Database has numerous search and mapping features useful for data organization and evaluation.

- Data are easily exported to Excel or Access for the development of fluid property correlations and mathematical relationships.
- Electronic or hardcopy reports can be generated directly from the database. The reports are exported into standard Excel or Access file formats. Adobe Acrobat PDF files containing original hardcopy PVT reports can also be downloaded.
- An important feature allows for extensive data searching by fluid properties, field information, etc. Additionally, a web enabled Geographical Information System (GIS) mapping application provides for data searching and comparative analyses in a more visual environment.
- The program allows for real time plotting of selected data or data sets.
- With the mapping interface, comparisons of multiple fluids or multiple data sets from a single fluid can be made.

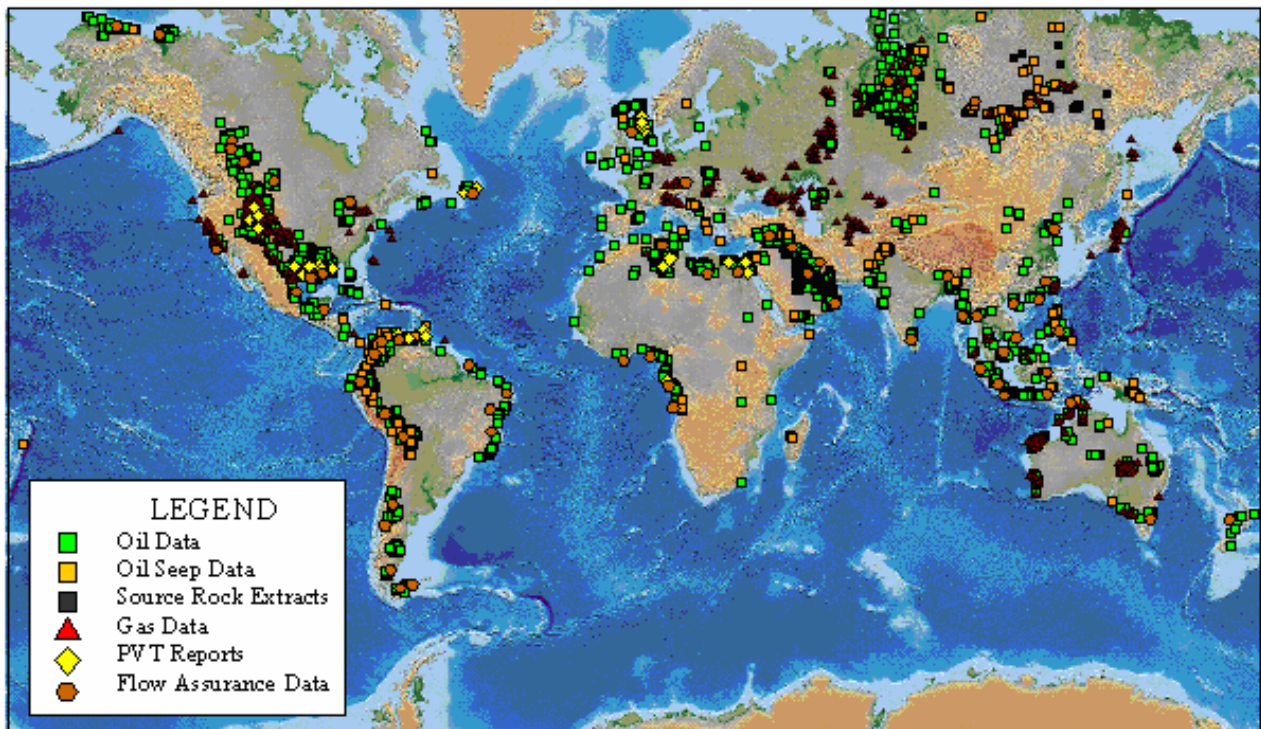


Figure 1. Distribution of samples in the **RFD**base Database.

PRICING

The price of various customized data sets offered via **Baseⁿ** is directly tied to amount and type of data contained in a specific acquisition request. Please feel free to contact us at the address below and we will promptly prepare a proposal covering your region of interest.

For Additional Information Contact:

GEOMARK RESEARCH, INC.
9748 Whithorn Drive
Houston, Texas 77095

Tel: 281/856-9333
Fax: 281/856-2987
e-mail: info@geomarkresearch.com



Database Modules

PVT Data _____ **PVT Module**

The PVT module is fully functional for the storage, review and manipulation of complete PVT reports. The database is divided into a “closed” section for the storage of confidential reports, and a large “open” section for the storage of non-exclusive reports accessible to all participants. This database stores all data in a standardized format for easy comparison, and also houses all reports in original formats.

Gas Analyses _____ **Gas Analysis Module**

GeoMark currently maintains two separate gas analysis databases (Global and Gulf of Mexico) that hold a total of 4,300 gas analyses worldwide. Over 95% of these analyses have both compositional and carbon isotope measurements. Both of these databases are accessible via the **RFDbase** website.

Oil Analyses _____ **GOMOIL & OILSTM**

Through the OILSTM (Oil Information Library System) and GOMOIL (Gulf of Mexico OILS) databases GeoMark provides access to over 8,000 crude oil geochemical analyses. Participating companies have access the databases and can contribute oil samples for free analysis by GeoMark. The results of these analyses are held confidential by GeoMark for a negotiated period of time and are then added to the databases. This provides an analytical source for the participants and populates the databases with new samples. During each year GeoMark also adds new samples to the databases from our collection of regional study samples, thus assuring that the databases grow substantially each year.

Source Rock Analyses _____ **XTRAX**

GeoMark is now offering XtraxTM (Source Rock Extract Analysis Database) as a complement to its existing OILSTM (Oil Information Library System) program. This database contains all the analytical and complementary data for a selection of source rock samples. All the extract biomarker and isotopic analyses have been performed by GeoMark, thus assuring compatibility to the OILSTM data.

Flow Assurance _____ **Flow Assurance Module**

Over the past 2 years GeoMark has performed a series of geochemical studies designed to establish a baseline understanding of flow assurance problems. These “problematic” studies were performed to investigate the relationship between different oil types (i.e. different source environments, thermal maturities, and degrees of biodegradation) and paraffin content and asphalt stability. The results from these studies form the foundation for the flow assurance module.