
Oil & Natural Gas Projects

Exploration & Production Technologies

Development of a Gas Information System (GASIS)

DE-AC21-93MC28139

Goal: To Develop the first national-scale, public domain reservoir and fluid property database.

Background:

The Gas Information System (GASIS) project was an extension of a previous effort supported by DOE and the Gas Research Institute in which six regional atlases and their corresponding reservoir property databases were produced.

Performer: Energy and Environmental Analysis

Location:

Arlington, Virginia

Potential Impact:

This project combined information from the Gas Atlas project with information from Dwight's Energy and other sources to produce a database to support exploration, development, planning, economic analysis, and market assessment.

Accomplishments:

Using multiple data sources approximately 1,000 reservoirs were analyzed. The improve quality and coverage of lower-48 reservoir property and production data provides the first true "reservoir definition" for many fields in the Mid-Continent and elsewhere. Each reservoir study involved analysis of a sufficient number of wells to determine representative values of key properties such as porosity, net pay, and gas saturation. The database contains information including field and reservoir identification, location, producing status, play classification, reservoir and fluid properties, geologic information, summary production data, and estimated remaining gas reserves and ultimate recovery. Also included are calculated reservoir area and average gas well spacing, completion level ultimate recovery data, a geological type well (reservoir studies), gas composition, and typical drilling and completion practices.

Current Status and Remaining Tasks:

This project was completed with the publication of the Gas Information System database on [CD-ROM](#) in June 1999. GASIS includes 19,220 oil and gas reservoir records representing 21 producing states and the Gulf of Mexico. The reservoir database contains 185 data fields per record. The CD-ROM includes a directory of information sources for United States reservoirs and comes with a Windows-based software application that allows query and retrieval of information.

Project Start Date: May 17, 1993

Project End Date: May 17, 2000

DOE Contribution: \$ 3,266,884

Performer Contribution: \$ 000

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Additional Information:

Final Report [PDF-3467KB]

Gas Information System database CD-ROM