

# **DOE/FETC Gasis Project**

**Quarterly Report  
June 1 - August 31, 1998**

**By:  
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Work Performed Under Contract No.: DE-AC21-93MC28139

For  
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Office of Fossil Energy  
Federal Energy Technology Center  
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**DOE/FETC GASIS PROJECT  
QUARTERLY TECHNICAL PROGRESS REPORT**

**June, July, August 1998**

**Contract No. DE-AC21-93MC28139 -- 21**

**Energy and Environmental Analysis, Inc.**

**Prepared by R.H. Hugman**

The following items describe technical progress on the GASIS project during the quarter for contract no. DE-AC21-93MC28139. During this period, work was performed on **Task 4: Technology Transfer**, **Task 7: Software Enhancement**, **Task 8: Reservoir Data System Updates**, and **Task 9: Supplemental Reservoir Studies and Data Collection**.

**1. SUMMARY OF WORK ACCOMPLISHED**

**Task 1. Obtain User Input**

This task has been completed.

**Task 2. Source Directory Development**

This task has been completed.

**Task 3. Natural Gas Reservoir Data System Development (Initial Project)**

This task has been completed.

**Task 4. Technology Transfer**

**Product Support**

EEA provided product support for GASIS Release 1.

### **Task 5. Storage Media**

No work was done on this task.

### **Task 7. Software Enhancement**

EEA continued efforts to develop graphing capabilities and type logs for the next release of GASIS. Some changes are also being made to the data matrix, requiring software modifications.

### **Task 8. Reservoir Data System Updates and Enhancements**

#### Release 2 Prototype

EEA developed a prototype of the Release 2 reservoir data system (RDS). Release 2 is currently scheduled as a CD-ROM database to be published at the end of 1998. Development of the prototype involved carrying forward geologic and engineering data from Release 1, as well as the development of new processed data elements with information through 1996. The new RDS incorporates 458 new reservoir studies, new Appalachian data elements, and 9,947 records from the Gulf of Mexico for a total of more than 19,000 records. Processed data elements include completion counts, completion recovery statistics, and identification of median recovery well.

### **Task 9. Supplemental Reservoir Studies and Data Collection**

#### Reservoir Study Data

The current GASIS reservoir study effort has been completed. A total of 1,009 studies have been completed since the project was initiated.

#### Type Logs

All type logs have been received and are being processed.

### **Task 10. Compile Tight Gas and Reservoir Property Data**

This task has been completed.

## 2. SIGNIFICANT PROBLEMS ENCOUNTERED

None.

## 3. MEETINGS

### Meetings with FETC

EEA met with Gary Sames in Arlington on July 8th for a project review and demonstration of the current database and software. Also discussed were several proposed projects to expand the scope or capabilities of GASIS.

## 4. PLANS FOR NEXT THREE MONTHS

Processing of Dwight's and GASIS datasets for the next release will continue.

Additional quality control will be carried out, including manual record screening in specific problem areas.

Technology transfer/product support activities will continue.

Software will be developed to view GASIS type logs.

## 5. ANTICIPATED PROBLEMS

None.