

DOE/METC GASIS Project

Quarterly Report March 1 - May 31, 1997

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

For
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DOE/METC GASIS PROJECT
QUARTERLY TECHNICAL PROGRESS REPORT
March - May 1997
Contract No. DE-AC21-93MC28139
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 3: Natural Gas Reservoir Data System Development**, **Task 4: Technology Transfer**, **Task 5: Storage Media**, **Task 8: Reservoir Data System Updates**, and **Task 9: Supplemental Reservoir Studies**.

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)

Appalachian Gas Atlas Database

EEA completed processing of the Appalachian gas atlas database. Processing accomplishments included tight reservoir identification, Devonian Shale identification, reservoir study identification, gas composition, depositional system classification, and completion and stimulation data.

Gulf of Mexico Gas Atlas Database

EEA received and began evaluating the initial Gulf of Mexico atlas database containing 4,325 Miocene and older reservoirs. This information will be processed into GASIS formats. Data for the approximately 6,000 Plio-Pleistocene reservoir records are not yet available in the public domain, but should be available later this year.

Task 4. Technology Transfer

Meeting with FETC (March 7)

EEA met with FETC project managers in Morgantown to discuss technology transfer and database development plans for 1997.

FETC Gas Conference (March 24-27)

EEA attended the FETC Gas Conference in Houston and presented a GASIS paper and demonstration. GASIS CD's were also distributed.

April 1997 AAPG Annual Convention in Dallas

EEA conducted a three day ongoing demonstration of GASIS at the FETC exhibit booth. Approximately 400 GASIS Release 1 CD's were distributed at the meeting, and discussions were held with representatives of majors, independents, and service companies.

Petroleum Technology Transfer Council (PTTC)

EEA shipped GASIS CD's and literature to the PTTC office in Washington for distribution to the 10 regional centers.

FETC Web Site

An electronic GASIS order form and information will be included with the re-designed FETC web site.

GRI

GRI was contacted about the possibility of distributing GASIS at the GRI information centers in Houston and Denver.

Task 5. Storage Media

CD-ROM Production

EEA managed the graphics design and production of 1,000 GASIS Release 1 CD-ROMs.

Task 7. Software Enhancement

No work was done on this task during the period. Plans call for the development of basic graphical capabilities.

Task 8. Reservoir Data System Updates and Enhancements

USGS Plays

EEA finalized the project to document which formations are associated with each USGS plays, and to equate these formations to formation names in GASIS. This will allow the development of a USGS play code for the majority of GASIS records. Additional work is required in basins where plays were defined in unusual ways.

Depositional Systems

Gas Atlas plays were classified by depositional system in Texas, the Central and Eastern Gulf Coast, and the Mid-Continent.

Project Planning

EEA reviewed the status and plans for all currently funded GASIS projects for 1997 and 1998. Recommendations were developed for FETC.

Task 9. Supplemental Reservoir Studies and Data Collection

Reservoir Studies

Dwights geologists completed the GASIS effort in the Powder River Basin of Wyoming and began work on the Morrow play of the Texas Panhandle.

Planning for 1997 Reservoir Studies

Dwights planned for reservoir studies in the Permian and San Juan Basins. Work on these areas will begin in July.

Type Logs and Reservoir Data

Dwights began assembling reservoir study type logs for those reservoirs that were not included in the previous type log set. Dwights also provided EEA with an updated reservoir study dataset for evaluation.

Task 10. Compile Tight Gas and Reservoir Property Data

No work was done on this project.

2. SIGNIFICANT PROBLEMS ENCOUNTERED

None.

3. SIGNIFICANT MEETINGS

Meeting with FETC (March 7)

EEA met with FETC project managers in Morgantown to discuss technology transfer and database development plans for 1997.

4. PLANS FOR NEXT THREE MONTHS

Gulf of Mexico atlas database processing will continue. EEA will make an effort to obtain atlas data for the 6,000 Plio-Pleistocene records as soon as possible.

Technology transfer activities will be carried out in support of the initial announcements of GASIS Release 1 availability, and the development of a web site order form.

Additional progress will be made on the assignment of USGS play codes. This will include the use of information from the TOTL database, including reservoir depth, oil vs. gas, and tight gas flags.

Additional progress will be made to develop electronic images of GASIS type logs.

Additional reservoir study work will be carried out in the Texas Panhandle, the San Juan Basin, and the Permian Basin.

5. ANTICIPATED PROBLEMS

None.

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