

PROJECT FACT SHEET

CONTRACT TITLE: Identification and Evaluation of Fluvial-Dominated Deltaic Reservoirs -- Class I

ID NUMBER: DE-FC22-93BC14956

CONTRACTOR: University of Oklahoma
Office of Research Admin.

B & R CODE: AC1010000

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CONTRACT PERFORMANCE PERIOD:

01/15/1993 to 12/31/1997

PROJECT SITE

CITY: Statewide

STATE: OK

CITY:

STATE:

PROGRAM: Field Demonstration

CITY:

STATE:

RESEARCH AREA: Class 1

FUNDING (\$1000'S)	DOE	CONTRACTOR	TOTAL
PRIOR FISCAL YRS	1,391	1,391	2,782
FISCAL YR 1998	0	0	0
FUTURE FUNDS	0	0	0
TOTAL EST'D FUNDS	1,391	1,391	2,782

OBJECTIVE: The Oklahoma Geological Survey, with the Geo Information Systems department and the School of Petroleum and Geological Engineering at the University of Oklahoma, will conduct a comprehensive collection and multi-disciplinary evaluation of information on Oklahoma fluvial-dominated deltaic oil reservoirs to identify conventional recovery technologies that have been (or could be) applied with commercial success. The project has implemented a technology transfer program targeted for the operators of studied reservoirs.

PROJECT DESCRIPTION:

Work to be performed: The project is conducting studies to: 1) identify FDD reservoirs located in Oklahoma, 2) group those reservoirs into plays with similar exploration and development characteristics, 3) collect, organize, and analyze all available data on these reservoirs, 4) conduct characterization and simulation studies on selected reservoirs in each play, and 5) implement a technology-transfer program targeted to the operators of FDD reservoirs to sustain the life expectancy of existing wells and to increase oil recovery.

PROJECT DESCRIPTION (Continued)

Background: This project is conducting a comprehensive collection and multi-disciplinary evaluation of information on Oklahoma fluvial-dominated deltaic oil reservoirs to identify conventional recovery technologies that have been (or could be) applied with commercial success. While a wealth of experience and knowledge exists regarding these technologies and reservoirs, much of it is in a form which is inaccessible or inconvenient to those who could benefit most from it: the operators of FDD reservoirs.

PROJECT STATUS:

Current Work: The project is completed and all workshops have been held. The OGS Computer Facility continues to operate as a public-access computer laboratory in Norman. Industry use of this facility has averaged about twelve users per month.

Scheduled Milestones:

Conduct final workshop (Bartlesville Play)	10/97
Final Report	03/98

Accomplishments: The response to this program from the Oklahoma industry has been very positive, with numerous attendees returning to attend multiple workshops. There is strong support from industry for the Survey to continue the 'play-based' workshop and publication series for other depositional environments once this FDD program is completed. The publication and workshop materials for each play include an overview of FDD depositional environments, a regional overview of each play, and field studies of selected reservoirs. All of the information collected from each of the plays is being included in a digital format in the OGS Computer Facility. Also included in the computer facility is the Natural Resources Information System (NRIS), a set of digital data files on petroleum information in Oklahoma.

The Oklahoma Geological Survey (OGS), in cooperation with Geo Information Systems and the School of Petroleum and Geological Engineering of the University of Oklahoma, has completed the investigation of fluvial-dominated deltaic light-oil reservoirs in Oklahoma. The study produced the identification of 10 plays that were incorporated into 8 publications: Morrow Play, Booch Play, Layton and Osage-Layton Play, Skinner and Prue Plays, Cleveland and Peru Plays, Red Fork Play, Tonkawa Play, and Bartlesville Play.

A total of 14 workshops were presented on these plays with a total attendance of 1,200 operators and other interested parties at these workshops. Responses to each of the workshops were uniformly high with most attendees indicated that this was the best thing ever done for them. The 8 publications produced through this program are among the all time best sellers for the Oklahoma Geological Survey.

Because of this strong response and requests from those who were unable to attend these workshops when they were scheduled, an agreement has been reached with the Oklahoma City Geological Society (OCGS) to present jointly each of the workshops again in a one-half day format. The first of the workshops to be repeated will be the Tonkawa Play to be presented on March 31, at the Home Builders Association Building in Oklahoma City. The OCGS or the OGS may be contacted for more details. The remaining workshops will be presented on a periodic basis to be determined in the near future.

Because of the strong interest shown by operators and other interested parties in play-based workshops, the Oklahoma Geological Survey decided to continue the program with in-house resources and has begun work on the development of the Hartshorne Play. This play will include the development of coal-bed methane in the Hartshorne Coal. Presentation of this information is scheduled for September 30, 1998 at the Francis-Tuttle VoTech in Oklahoma City and again at the Indian Area VoTech in Muskogee on November 4, 1998. A novel concept added to this workshop is an optional two-day field trip that will examine outcrops of various Hartshorne depositional environments that produce hydrocarbons in the subsurface in adjacent areas. The field trip will be held on November 11-12, 1998.