

The GRI Staged Field Experiment

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Summary. The Gas Research Inst.'s (GRI's) Tight Gas Sands Program has been involved with research on low-permeability formations during the past 4 years. The main focus of the research has been to improve the general understanding of producing tight reservoirs, while a specific focus has been to advance the technology involving hydraulic-fracture geometry. The unique aspect of this research is that the laboratories have been actual gas wells completed in the Travis Peak formation in east Texas.

To extend the development of technology fully, GRI has planned four staged field experiments (SFE's) from 1986 through 1989. The SFE program provides the opportunity to collect a wealth of data that cannot be obtained from normal cooperative research wells. The purpose of this paper is to summarize all the tests and data collected on the first SFE and to present the available results from the analyses of these data.

Introduction

Research directed at reducing the cost and improving the recovery of gas produced from low-permeability reservoirs is currently being sponsored. Because the most viable method of improving recovery in tight formations is hydraulic fracturing, part of the research is aimed at better understanding of the processes that control fracture growth. If the petroleum industry can substantially improve its ability to predict and to control the shape of hydraulic fractures accurately, then the chances of achieving optimum propped-fracture lengths are increased. The end result will be an improved economic incentive for developing tight gas reservoirs.

To understand the hydraulic-fracturing process better, it is first necessary to improve our understanding of both the reservoirs being fracture treated and the formations surrounding the main productive interval. To achieve this goal, a comprehensive program was initiated to perform geologic, coring, logging, well testing, fracture-treatment monitoring, and fracture-diagnostic studies on selected cooperative research wells in the Travis Peak formation of the East Texas basin.

One technical approach is to use the necessary electronic equipment and computers in the field so that the GRI contractors may actually analyze the fracture-treatment data in real time. Once this system is perfected, we should be able to predict fracture shape and extent. If this can be accomplished successfully, we will then attempt to control fracture growth by controlling the fracture-fluid viscosity or the injection rate.

The success of the program hinges on the cooperation of operating companies. Through their participation, GRI contractors are allowed to collect the data necessary for a complete formation and fracture evaluation from actual gas wells referred to as cooperative wells. With these data, we feel that substantial progress can be made toward the development of tight gas through better stimulation technology.

Table 1 lists all GRI contractors, service companies, and producing companies that cooperated with GRI in the field data collection effort. Table 2 summarizes the data collected during the first 3 years of this research program.

The cooperative research wells are just the first step in the overall plan to characterize fully the formation and hydraulic fracture in three dimensions. The next phase of the plan is to pull all GRI contractors together on strategic wells to use all possible means of improving the understanding of tight gas reservoirs. This phase is called the staged field experiments (SFE's).

Goals of the SFE's

Four SFE's are planned from 1986 through 1989. An SFE will allow the research contractors to collect the same basic data that have been available from most of the cooperative wells. Additional data,

however, that have not been collected on cooperative wells because of either high cost or high risk to the operator will also be obtained during the SFE.

The specific goals of each SFE are listed below.

SFE 1: 1986-87.

1. To bring together all tight gas sand contractors to study a common formation and wellbore.
2. To drill, complete, and stimulate a highly instrumented well to collect and analyze one of the most comprehensive data sets ever obtained in the industry.
3. To implement data-collection methods that will be structured to benefit the research contractors working on fracture-diagnostic techniques and fracture-modeling efforts.
4. Information obtained during the SFE will be presented to industry in an integrated form to facilitate technology transfer. The various analyses will not be linked and may not necessarily be consistent between any two of the contractors.

SFE 2: 1987-88.

1. A three-dimensional (3D) fracture-design and -evaluation model will be able to analyze the data in real time and to offer suggestions concerning changes that should be considered to improve the treatment results.
2. Fracture-diagnostic experiments will be evaluated to focus future research efforts on the most promising of the techniques. All fracture-diagnostic methods will be separate from the fracture-modeling efforts.
3. Field-measuring and -monitoring systems of the GRI Mobile Testing and Control Facility will be superior to all other field systems in terms of versatility, accuracy, and reliability.
4. Experiments will focus mainly on the determination of fracture-height and fracture-length measurements and/or calculations of these properties.

SFE 3: 1988-89.

1. Fracture-modeling systems will be computing fracture shape with precision.
2. Fracture-diagnostic systems will be functional and provide input to the fracture models in real time.

SFE 4: 1989-90.

1. Move to a new location and prove that the technology developed can be transferred to a different environment.

Site Selection for SFE 1

Rigorous selection criteria set up for the first SFE included (1) the presence of direct offset wells, (2) blanket-type sand deposition over a fairly wide area, (3) the presence of discrete individual sand mem-

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