

Reserves. Certainty.

Together for the first time.

Also together for the first time: SPIDR® surface-test technology and Wavex™ energy-wave analysis

Without question, the most important number in your business is reserves. And yet, until now, the best guess at that number has been – a guess. An informed guess, of course, but still the result of curve analysis and statistical methodology: no direct measurement, no rigorous calculation. (How many times have you been surprised by actual production figures?) Now there is a proven, deterministic method for calculating actual gas reserves in place and for learning exactly where to locate wells for optimum recovery.



A SPIDR surface test kit has everything needed for a long-term production test. The kit can be delivered to any country in two days or less and can be installed in minutes.

The two keys to the new method are 1) long-term production test data and 2) a revolutionary pressure-data analysis method developed by Wavex Corporation.

The SPIDR makes long-term production tests practical

The necessary flow/pressure data is acquired using a SPIDR (self-powered, intelligent data retriever) surface test kit from Data Retrieval Corporation, the same test technology that has revolutionized short-term pressure-transient testing around the world. For long-term tests, a SPIDR test kit costs only \$200/day.

No tools or gauges are run downhole, and any field hand can install a pre-programmed SPIDR on the wellhead in a few minutes. Ideally, the test starts with a shut-in and build-up, followed by 400 to 600 hours of constant-rate production. The SPIDR operates unattended, measuring and storing up to 128,000 pressure readings. Connect any PC-compatible laptop or hand-held computer to the SPIDR, and press one key to copy data from the SPIDR memory at any time without disrupting the test. All data is digital and can be transmitted via e-mail or modem.

Wavex analyzes the data

Data Retrieval converts the wellhead pressure data to downhole pressures using a proven, proprietary algorithm. Wavex Corporation then analyzes the data using a rigorous technique based on energy wave mechanics. The

technique, which overcomes the limitations of conventional diffusion-equation models, accounts for the effects of capillary pressure on the cone of influence to generate an internally cross-checked, running material balance that is used to: 1) determine accurate distances to each limit, 2) size reservoir volume, 3) verify reservoir properties, and 4) locate any moving gas/water contacts.

Combined with seismic and production log data, Wavex analysis raises reservoir analysis to an unprecedented level of certainty.

And the only truck you see is from FedEx®

Compared to conventional downhole testing, using a 10-pound SPIDR kit is utterly simple; no service company trucks, no technicians, no lubricators. Just tell us where you want the kit delivered, and we'll FedEx a carton containing a complete test kit, instructions, and a return shipping label. When the test is over, just put the SPIDR unit in the carton and ship it back to us.

Give us a call, or visit our Web site

For more information about the SPIDR surface-test kit and its many uses and a list of the hundreds of oil and gas companies that rely on surface testing, give us a call or visit our Web site.



Data Retrieval Corporation

www.spidr.com