



# Smile!

## Your Drilling Rig is On CAMERA!

In a matter of seconds the drill string is lifted and a pressured stream of drilling mud begins spraying the rig hands as they attempt to come out of the hole on the Saber drilling rig #7. There are no breaks for the hard-working crew to change out of their mud-soaked clothes. They've got to focus on the task at hand. From his office in Seminole, Oklahoma, Saber president, Hank Spencer, logs onto [www.drillsite-broadcast.com](http://www.drillsite-broadcast.com) and watches the action on his computer screen as the crew pulls section-after-section of drill pipe from the hole and stands it in the derrick. A slip-up could cause delays in the drilling process or worse, a serious injury. Not today. Today the hands take the mud shower in stride and get back to drilling the well. Just another day in the booming oil patch, right? Not exactly.

What is different in the scene just described is the fact that Spencer was able to watch the drilling activities from his office several hundred miles away, thanks to Remote Drillsite Broadcast System (RDBS™). What may become the norm in future drilling operations is today just an infant in the oil patch...real-time, live video stream from the drilling rig to any internet-enabled browser. In a word, this is what Drillsite Broadcast Company does.

First conceived in 1999 by Michael Dwinell to produce an internet platform to attract investors for funding exploration ventures, the concept has matured into a technology tool that provides oil and gas management with the ability to extend the full technical services of a company's main office to the drillsite. By 2000, Dwinell had developed the initial

concept into a fully integrated technology for video capture, satellite transmission and real-time Internet delivery.

The RDBS™ is a patent pending, proprietary design that employs the use of satellite communications technology. The RDBS™ has a small footprint when deployed on a drilling location, and outside of the satellite antenna - commonly referred to as a "dish" - is self-contained in a mobile unit. Unmanned, the RDBS™ is a workhorse in the field, continuously delivering video and data to the host website.

Technological advancements over the last few years reduced implementation costs to make the RDBS™ an affordable and manageable asset on location in the oil field. Making the business case for deployment of the RDBS™ even more compelling is the climate of the oil and



Michael Dwinnell, president and CEO of Drillsite Broadcast Company with Gregory Jessup, senior vice president, at a recent open house hosted by the company.



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gas market, while enjoying greater demand for drilling services the market place continues to pursue cost-saving efficiencies.

In 2005 Drillsite Broadcast Company completed a commercial demonstration of the RDBS™ with a live broadcast from a drilling rig on the outskirts of Fort Worth, Texas. Today Founder and President Michael Dwinnell, Sr. Vice President Greg Jessup and staff are helping the industry wrap its collective mind around incorporating the RDBS™ into drilling programs.

Working from geological prospect evaluation through field development, alongside and in harmony with key exploration and operations personnel, the company assists clients in identifying critical success factors in the knowledge path to delivering mission critical operations video, data, and information in real-time.

"Our services are tailored for oil and gas companies engaged in domestic and foreign drilling operations. Digital video, data, and drilling information broadcast from the drilling rig delivers operational accountability to operators, partners and various concerns with a vested interest in oil and gas drilling ventures. Employing the RDBS™ at a drilling location can decrease operational costs by substantially reducing distance and communication barriers, providing for greater efficiencies of operations and improved utilization of resources in drilling opera-

tions," said Dwinnell.

Delivering reliable, full-access, remote drillsite broadcast services is a complex task, requiring precise systems engineering and the careful integration of satellite communication assets both in orbit and on the ground. Key technologies that Drillsite Broadcast Company integrates into RDBS™ are managed at both the Network Operations Center in McLean, Virginia and Drillsite's Broadcast Control Center in Dallas, Texas.

Drillsite's RDBS™ units generally use geosynchronous (GEO) satellites that orbit the earth at approximately 22,500 miles over a fixed position along the equator. These satellites, which come in a variety of configurations, provide either regional coverage of a specific part of the world (for instance North America) or partial global coverage across a longitudinal range that may comprise as much as a third of the surface of the earth. This coverage area is generally referred to as the satellite's "foot print." To provide contiguous global coverage, the Network Operations Center (NOC) coordinates multiple satellite footprints into a service coverage area. At any given time Drillsite employs satellites around the globe to provide worldwide services.

Visual observation of drilling operations delivers on many fronts for operators, drilling contractors and key personnel charged with the responsibilities of making decisions and overseeing people

and resources in oil and gas exploration. The extended field of users includes brokers, investors, and shareholders, banks, insurance companies, hazard and emergency response, the EPA and other regulatory agencies.

The potential impact is enormous. Change may be driven by operators utilizing the technology that allows them to remotely watch wells being drilled from any offsite location as a tool in monitoring the work of drilling contractors. Perhaps it will be driven by investors, who through visual observation gain accountability for their interests in the well being drilled. Even still, drilling contractors may realize greater worker efforts and rig utilization by monitoring the operations. Safety managers can monitor for operational compliance by workers, which may lower accidents and in turn lower insurance premiums and reduce outlays by the Insurance companies.

Even rig hands are welcoming the use of the broadcasts. With the ability to go online and watch the activities on the rig floor, many family members are getting to say good night to dad on the rig as he goes to work on the midnight shift. Waving into the camera, one dad said goodnight to his kids and blew them a kiss as he turned to grab the casing tongs and start back in the hole.

No doubt, the oil patch is going live and Drillsite's technology is leading the way.