June 29, 2012

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Next Generation of Oil Well Monitoring Utilizes Real-Time Technology to Prevent Crude Theft and Remotely Manage Inventory

OpenTundra Monitoring System Could Save Millions for Producers and Royalty Owners

TULSA, Okla. — OpenTundra, a Tulsa-based technology company that integrates remote and mobile information with existing internal systems, has come to market with a remote, real-time oil well monitoring system that utilizes patent-pending technology to help producers and royalty owners prevent crude theft and manage their inventory.

In early 2012, OpenTundra's pilot platform uncovered approximately $40,000 in suspected crude oil theft. Had the missing oil gone undetected, it could have amounted to a half-million-dollar annual loss for OpenTundra's customer.

"Anytime the price of oil jumps, we see an increase in crude oil theft, which is becoming a significant problem for small- to mid-sized producers," said Josh Fate, president of OpenTundra LLC. "We have developed a system superior to any other in the marketplace when it comes to preventing fraudulent activity and giving producers up-to-the-minute checks on their inventory."

Existing well monitoring methods rely on manual checks, which can be misreported or fabricated by a pumper or crude hauler. The process requires an individual to routinely visit each well to measure a tank's crude oil and water height with a manual tap gauge and water paste.

While recognized across the industry, this method does not detect a tank's Basic Sediment and Water (BSW), in which oil and water are emulsified in different ratios. As a result, the tank's saltwater and BSW are not measured separately from the crude oil. When BSW is

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pulled from the tank, it is often only reported as water. However, the oil in the layer can be reclaimed and sold.

Using tank sensors, OpenTundra's oil well monitoring system distinguishes a tank's amount of pure oil from its emulsive layer to determine whether a drop in tank volume is due to a water bottom pull, a crude oil pull and/or possible theft. The well monitoring system can be placed in the tank of a new well or added to an existing tank.

Well data can be accessed remotely while the producer is in the field, at the office or even on vacation. Producers also can view crude oil, gas and water production through one web-enabled interface, providing drilling and work-over reports at one point of access that can be viewed on an iPad or other electronic device in the field.

The OpenTundra system can be programmed to send alerts to the producer via email, phone call or text message when anomalies in oil volume occur in a particular tank. The system identifies the location of the accessed tank via physical address, map location or GPS coordinates and immediately delivers this information to the producer. Environmental issues, such as a leak, also can be detected in near real-time and reported within a few minutes after the event has occurred.

"Any time someone takes oil out of our tanks, I know about it," said Dick Clark, general partner of CBL Resources L.P., a mid-sized oil producer and an OpenTundra customer. "(The OpenTundra well monitoring system is) sort of like having a security system on your well. When you have 30 wells, you can't have a security guard running all over the place or security cameras at every well. This way, you can verify what your pumper and crude hauler are doing."

For more information about OpenTundra's real-time, remote oil well monitoring system, including pricing, call (918) 770-4897.

About OpenTundra LLC
OpenTundra integrates remote and mobile information with existing systems, offering standard and customized hardware, software and implementation that enables its customers to make timely and informed operational decisions. The company's solutions improve internal processes in the areas of volatile chemical and fuel transportation; fuel accounting; environmental compliance; vendor-managed inventories; over-the-road transportation; patented real-time fuel/theft technology; real-time delivery confirmation with electronic signature; and driver compliance. Visit www.opentundra.com for more information.

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