

US Seismic Systems and Octave Reservoir Receive Order for Production Fracture Monitoring System

Chatsworth, CA. (July 6, 2011) US Seismic Systems (USSI), a subsidiary company of Acorn Energy, Inc. (NASDAQ: ACFN), and Octave Reservoir Technologies (Octave) announced today that they have received an order for a seismic system based upon USSI's revolutionary fiber optic sensor technology from a leading domestic oilfield seismic service company. This is the fourth significant order received by USSI for oilfield applications in 2011.

Jim Andersen, CEO of USSI said, "This order, which is for a high temperature, down hole fracture monitoring system, addresses the growing need for high performance seismic systems designed to monitor the effectiveness of hydraulic fracture stimulation. Octave and its customer are considered the pioneers in real-time multi-well Hydraulic Fracture stimulation Mapping ("HFM"). We are delighted to be collaborating with them on this important project."

Scott Taylor, CEO of Octave Reservoir stated, "The industry needs a more economical and higher temperature borehole seismic system to provide reliable, high-quality geophysical data. Octave believes this system can result in significant market penetration into the HFM markets both in the US and abroad."

John Moore, CEO of Acorn Energy commented, "Experts claim shale drillers are currently extracting less than 30% of the gas or oil from the 'payzone'. Today less than 4-5% of the over 14,000 hydraulic fracture jobs annually use seismic fracture mapping. If USSI commercializes an affordable and more field friendly sensor the industry could realize a huge productivity windfall."

US Seismic is holding an investor day on July 12, 2011 from 11-5 at its new facility in Chatsworth, CA. Please contact Shae Begolly at 302-656-1707 to register.

About US Seismic Systems Inc.

US Seismic Systems Inc. ("USSI"), formerly US Sensor Systems Inc., designs, integrates, manufactures, and sells fiber optic sensing systems and solutions for the Energy and Defense markets. USSI utilizes all-optical fiber sensing technology for its state-of-the-art sensors. USSI's proprietary optical fiber and electronics combine to form the sensor system. It is designed to replace the legacy electronic-based sensor systems at a lower cost and with improved performance and reliability. USSI's new fiber optic geophone was recently awarded the coveted 2010 Oil & Gas Industry Innovation of the Year Award by Frost & Sullivan, the world leader in technology, market, customer, and economic research. For more information visit the USSI website at: www.usseismic.com.

About Octave Reservoir Technologies

Octave Reservoir Technologies is an oilfield service company headquartered in Houston, TX that is pioneering the first fully integrated permanent "life-of-field" asset characterization service. Building on 3D and 4D seismic imaging technologies, Octave's ReservoirAlpha service integrates both active and passive seismic data with pressure ("APP") measurements captured from

fiber optic sensors deployed in targeted, low-cost monitor wells.

Octave's mission is to become the first turn-key service provider of real-time asset characterization to the oilfield and emerging carbon and geothermal industries. Octave seeks to maximize the return on investment in ReservoirAlpha by providing relevant, real-time, value-answers appreciated by a broad client-audience spectrum. Octave is lead by a seasoned management team which has participated in many of the largest milestone permanent reservoir monitoring projects to date. For more information please go to www.octavereservoir.com

About Acorn Energy, Inc.

Acorn Energy, Inc. is a holding company focused on technology driven solutions for energy infrastructure asset management. Our four businesses in which we have controlling interests, improve the world's energy infrastructure by making it cleaner and less expensive to operate air pollution systems for coal and gas-fired power plants (CoaLogix), more secure by providing security solutions for underwater energy infrastructure (DSIT), more reliable by providing condition monitoring instruments for critical assets on the electric grid (GridSense) and more productive and efficient by increasing oil and gas production while lowering costs through use of ultra-high sensitive seismic tools for more precise pinpointing of oil and gas reservoirs (USSI). For more information visit www.acornenergy.com.

Safe Harbor Statement

This press release includes forward-looking statements, which are subject to risks and uncertainties. There is no assurance that CoaLogix, DSIT, US Sensor Systems or GridSense will continue to grow their respective businesses. A complete discussion of the risks and uncertainties which may affect Acorn Energy's business generally is included in "Risk Factors" in the Company's most recent Annual Report on Form 10-K as filed by the Company with the Securities and Exchange Commission.

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