**“Revolutionary Seismic Sensor System”**

**For**

**Energy Exploration Applications**

14 Sep ‘15

**Summary**

**“The customers are there, waiting for the right product”** is a common theme GII continues to hear. Current sensor technology cannot meet the demanding requirements of today’s world with regard to fast, low cost energy exploration. Currently, 14 wells must be drilled industrywide to locate one economically viable well. This 7% success rate is extremely time consuming and costly to locate oil and gas deposits. Furthermore, drilling is required to go deeper and deeper to find new deposits. Fortunately, a solution exists. GII’s revolutionary integrated smart sensor system (ISSS) was field tested in October 2014 by an independent US company expert in seismic sensor technology to prove full functional capability to overcome the current deficiencies in integrated sensor systems utilized in energy exploration.

GII intends to market the ISSS to the world’s major oil and gas companies and to smaller specialized oil exploration companies. The marketing plan is to reduce the cost of energy exploration by providing at least 5X more useful exploration data for less cost with a shorter schedule than current exploration techniques. The market size for energy exploration sensor systems is estimated to be $2 billion annually through the year 2030 or $30 billion over the next 15 years.

**Technology Solution / Technical Description**

Global Innovations, Inc. (GII) is a Delaware C Corp headquartered in Los Angeles, CA that has developed the Integrated Smart Sensor System (ISSS). This revolutionary integrated sensor system possesses high sensitivity to detect extremely low frequencies - from 0.001 to 2.0 cycles per second. This extreme low frequency detection ability enables the sensor to detect vibrations within the earth’s crust with extraordinary capability. Signals less than 2 cycles per second travel more easily within the earth’s crust but until now, no sensor had the capabilities to detect these signals with ease. The ISSS detection capability has been independently verified in real field tests to be 4-7 times better than the existing 45 year old geophone technology now used in the energy exploration industry.

**Company History**

The ISSS technology incorporates a smart sensor system (SSS) from Precision Sensors & Instruments (PSI) 20 years in the making but is now at the pre-production stage of development. GII was officially formed in 2015 to economically exploit this revolutionary new sensor technology by creating the ISSS utilizing the talents of the highly experienced management team coupled with a globally recognized SSS technology team.

**Independent Field Test Results**

During October 2014 an independent expert company in seismic sensor technology was asked to test the three dimensional ISSS in the Mojave Desert. The best competing seismic sensor worldwide was field tested side by side with the ISSS performance conservatively rated 400% better.

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**Management Team**

GII’s ISSS executive management team consists of two highly capable former aerospace program/project managers with engineering, marketing and business management backgrounds with a combined 65 years of experience. Levon Thorose and Randal Knar specialized in leading to profitability ailing technically complex weapons systems programs for the US military. Program management skills, strong marketing capabilities, superior systems engineering and transition to production experience highlight this leadership team’s overall strengths.

The inventor of the revolutionary SSS, Dr. Samvel Gevorgyan of Precision Sensors & Instruments, is a world class 30 year expert in sensor design with numerous peer reviewed published papers and books. His support team consists of six hardware and software technology experts.

**Current Marketing/Business Strategy**

GII’s ISSS marketing efforts will center on attracting interest from major oil and gas companies and specialty energy exploration companies. However, potential customers desire off the shelf systems for preliminary field tests to prove out the new technology. Therefore, GII must transition to production the existing preproduction SSS prototype and fully integrate it into the GII ISSS to meet the minimum requirements of the industry for field testing.

Concurrently, the GII marketing team intends to attract business by conducting field tests with interested parties and get approval for being a qualified supplier. The marketing plan is to reduce the cost of energy exploration by providing at least 5X more useful exploration data in a compressed schedule for less cost than current exploration techniques. The energy exploration companies are keenly interested in improving the 1 viable well per 14 drillings as well as reducing the typical nine (9) month data acquisition and analysis time for each well to be drilled.

The global market size for energy exploration sensor systems is estimated to be $2 Billion annually through the year 2030 thereby providing GII a large potential market for its ISSS.

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