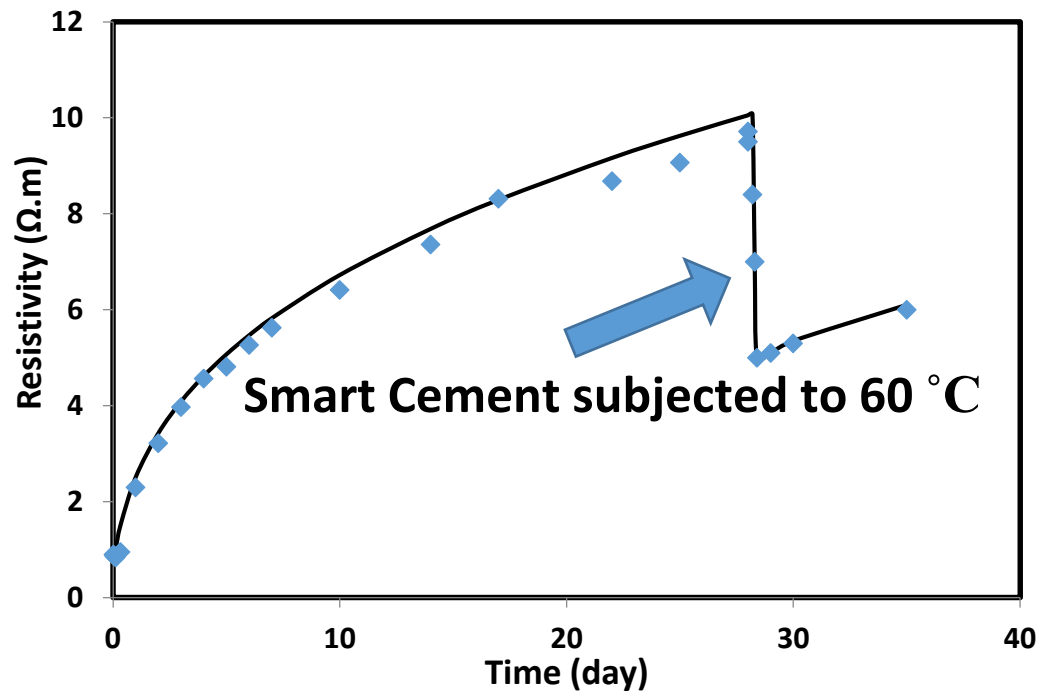


Temperature Sensing

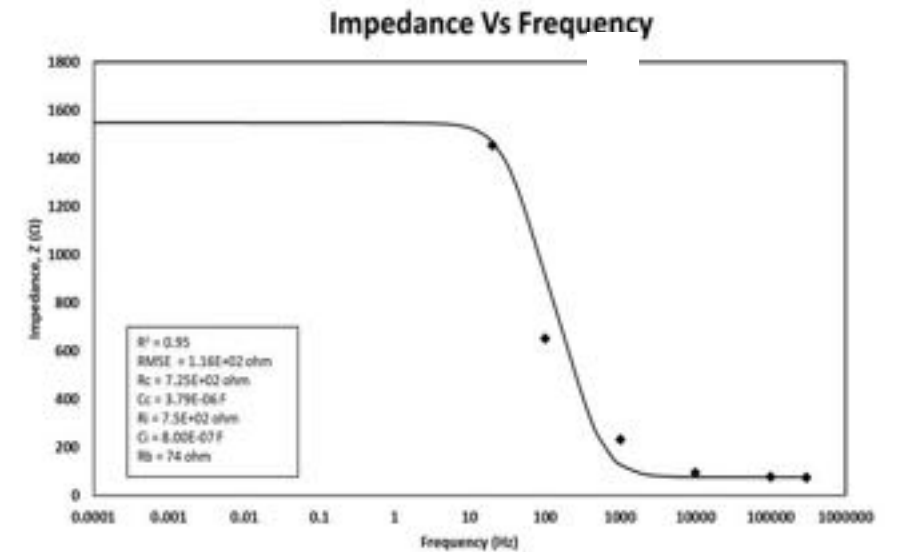
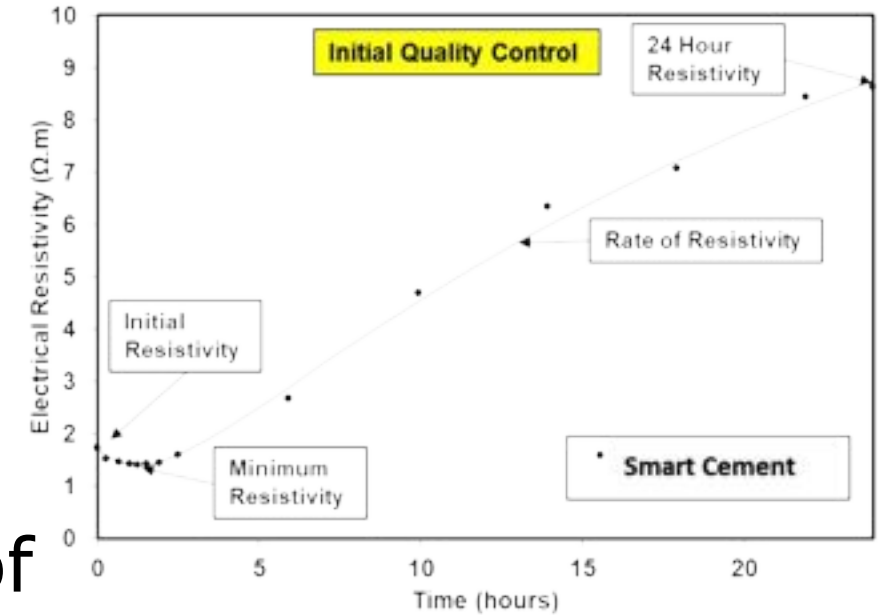
Temperature Effect



- Smart cement was tested for temperatures close in range of -25°C to 150°C .

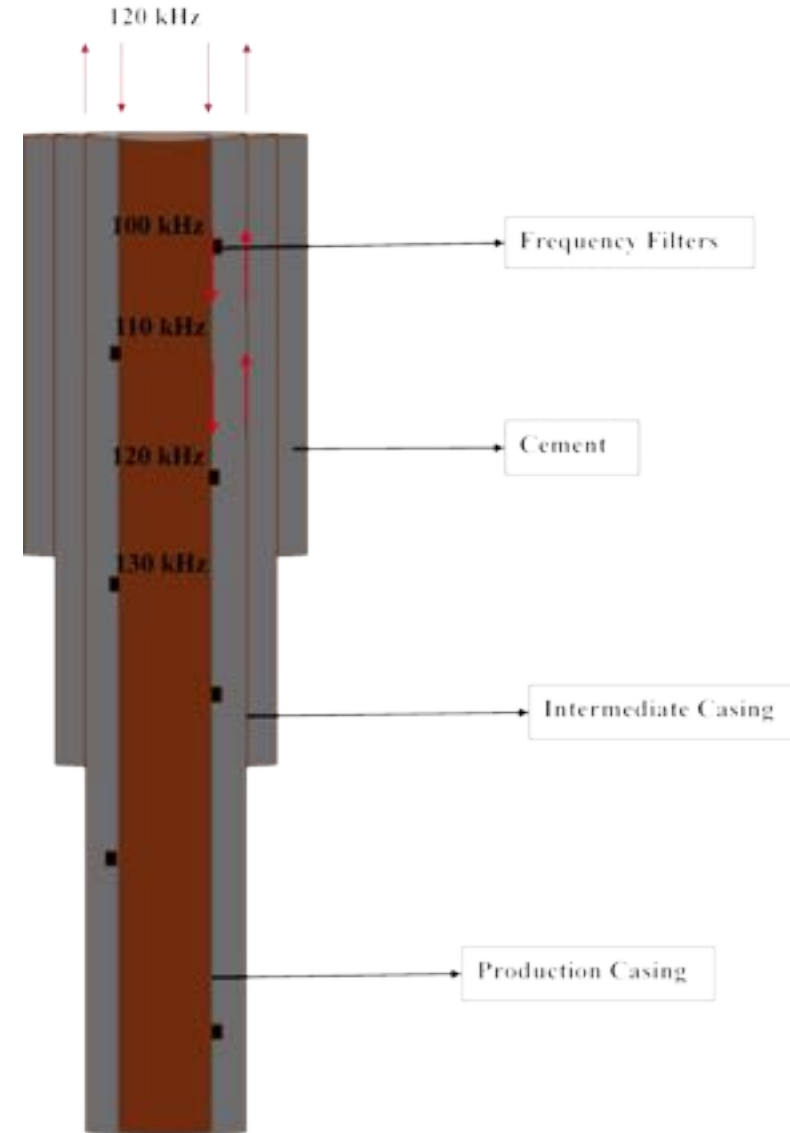
Differentiation

- **Quality and Contamination:** Resistivity, Minimum Resistivity, 24 Hour Resistivity.
- **Pressure and Temperature:** Rate of Resistivity, Model Parameters and Second derivative of Resistivity.
- **Corrosion:** Impedance



Down-Hole Communication

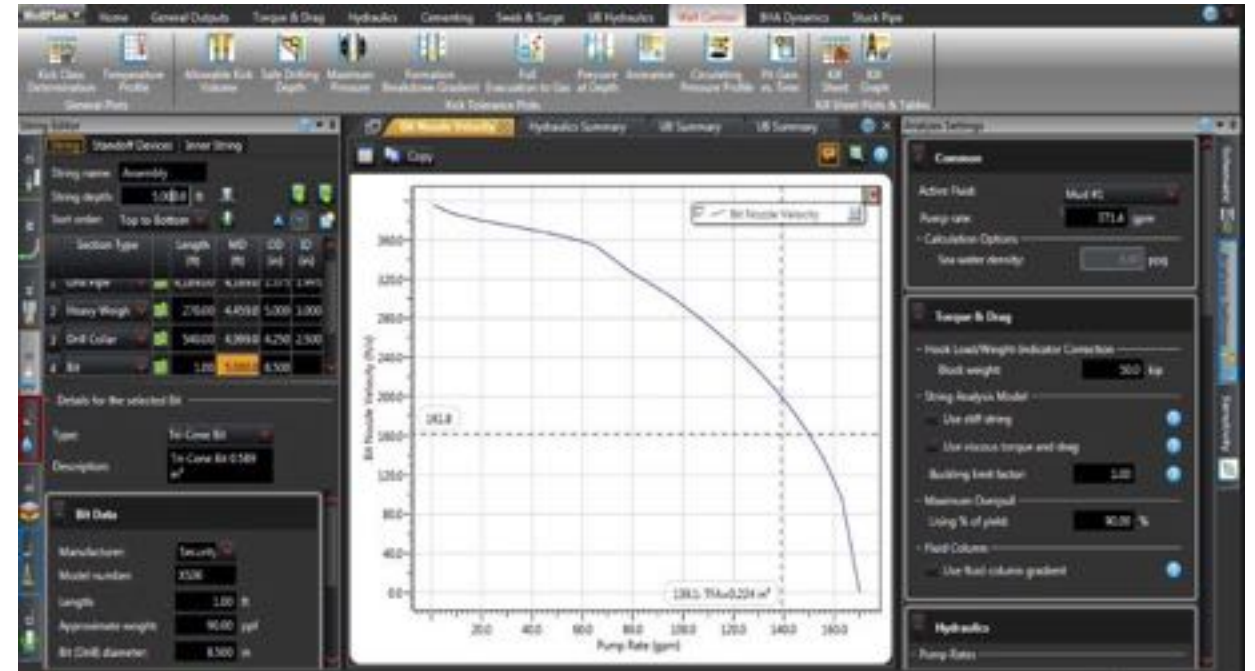
- Electrical signals through the casing.
- Frequency is the depth signature.



Monitoring System



- Hardware System to record and transmit signals.



- Software for data analysis and visualization.



Commercialization
Grant of \$50,000
(2018)



Grant Funding of
\$2.5 million



Published
Worldwide Patent
(2017)



McKinsey & Company

IN PARTNERSHIP WITH



Investment of
\$120,000
(2018)

Traction

Smart Cement™ Technology

- Sensytec “smart cement” gives information about condition and structural integrity of oil well cement on unprecedented level – creating benefits across the well lifetime





**Ody De La Paz,
Chief Executive
Officer**



**Dr. Cumaraswamy
Vipulanandan, Ph.D.,
P.E, Inventor & Chief
Scientist**



**Anudeep Reddy, Ph.D
Chief Technology
Officer**

Thank You.

SMART CEMENT. SAFER WORLD.



Smart Concrete Patch

