



## #006 Lightning Derived Resistivity

Dynamic Measurement is pleased to announce issuance of a new U.S. patent, “Method for Determining Geological Surface and Subsurface Resistivity.”

The image in the background of the Patent Abstract is a map-view resistivity-slice calculated from lightning strike databases overlain on a seismic time-slice. The southeastern high-resistivity anomaly (oranges and yellows) appears to be from gas seeps tied to a Gulf Coast client’s exploration opportunity. When the client, a geologist with a world class success record of finding hydrocarbons, saw these results, he went back to his seismic and found a previously unidentified trap underneath the anomaly to the northwest. The northwest area has no previous drilling. The client told Dynamic he had never before been this excited about how a new technology ties his exploration opportunities.

Dynamic Measurement’s lightning database analytics help explorers better understand geology with attribute volumes available in the U.S. (lower 48 states) and Canada through an exclusive license to use the NALDN (North American Lightning Detection Network) for natural resource exploration. This same network coverage extends offshore to about 300-foot water depths. Global coverage is also available through the GLD-360 (Global Lightning Database 360). However, data outside the U.S. and Canada does not include measurements needed to calculate resistivity. Dynamic creates lightning density and 9 other lightning attribute maps and volumes anyplace worldwide.

Dynamic map and volume deliverables allow explorers to build a geologic framework faster, less expensively, and without any public notices or need for permits. Because there are no boots on the ground, it is also safer than any other geophysical data type. To discover the benefits of this technology, just describe your exploration needs and our team will help you select the most appropriate Dynamic product to achieve success.

D.NSEM<sup>SM</sup> lightning data analysis is available covering rectangles defined by latitude and longitude, while SPOT<sup>SM</sup>, circular area analysis, is centered on a single longitude/latitude. LINE<sup>SM</sup> is for linear projects, such as planning cathodic protection along pipelines, or minimizing power leakage along high transmission powerlines. These map and volume products are delivered in less 2 months, ready to upload on your workstation. Minimum order \$10,000 (a 2-mile radius SPOT<sup>SM</sup>). A 100 square mile D.NSEM<sup>SM</sup> analysis (165 foot line and trace spacing) costs \$73,060; 1,000 square mile analysis (same trace spacing or interpolated to match in-line and cross-line spacing of 3-D surveys in the area) costs \$162,220; or 10,000 square mile analysis costs \$360,200. Our geophysicists and geologists also provide lightning interpretation support to your natural resource exploration project team.

For more information Contact Dynamic Measurement at 281.579.0172 or [info@dynamicmeasurement.com](mailto:info@dynamicmeasurement.com).