

CASE HISTORY



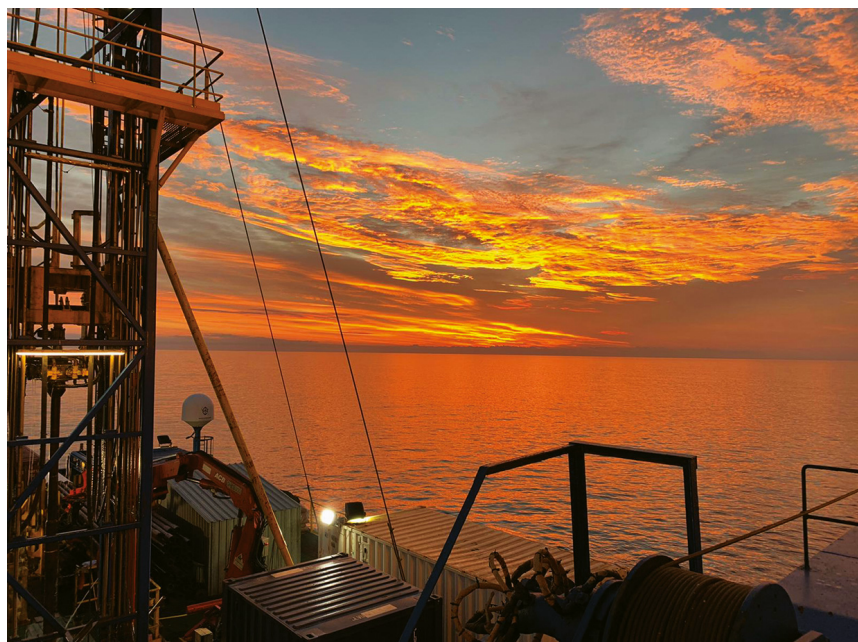
Application: **Offshore Wind Farm Development**

Technology: **PS Logger® | 2000m Marine Winch**

Location: **Offshore New Jersey, USA**

Atlantic Shores Offshore Wind is a joint venture between Shell New Energies US and EDF Renewables North America. In 2021, Atlantic Shores Offshore Wind were awarded a contract to develop 1,510 MW in offshore wind energy, enough to power over 700,000 homes.

The project is located on the US Outer Continental Shelf within the New Jersey Wind Energy Area – 10 to 20 miles off the coast of New Jersey between Atlantic City and Barnegat Light, strategically positioned to provide energy to both New Jersey and New York.



Requirement:

Atlantic Shores Offshore Wind contracted Geoquip Marine to conduct a geotechnical site investigation across multiple locations within the lease area. CPT, Seismic CPT and PS Logger® data were required on boreholes, with targeted depths up to 80m below seabed.

Operation:

Geoquip Marine performed the investigation with the Geoquip Saentis, a DP2 integrated geotechnical survey vessel complete with a fully heave compensated drilling rig. The Robertson Geo engineer ran a Geoquip Marine owned PS Logger® and 2,000m Marine Winch, both manufactured by Robertson Geo.

Equipment:

The PS Logger® measured P and S wave velocities in the boreholes, taking readings statically at a predetermined depth interval. On the same boreholes Seismic CPT was also run, again to collect P and S wave velocities. The PS Logger provides excellent data at deeper zones where the Seismic CPT cannot operate, while at shallower depths the data sets complement each other.

Challenges and Solutions:

Covid 19 – Daily temperature checks, rapid Covid tests and strict isolation procedures.

End value to client:

The PS Logger® successfully collected the required P and S wave velocity data at the specified locations.