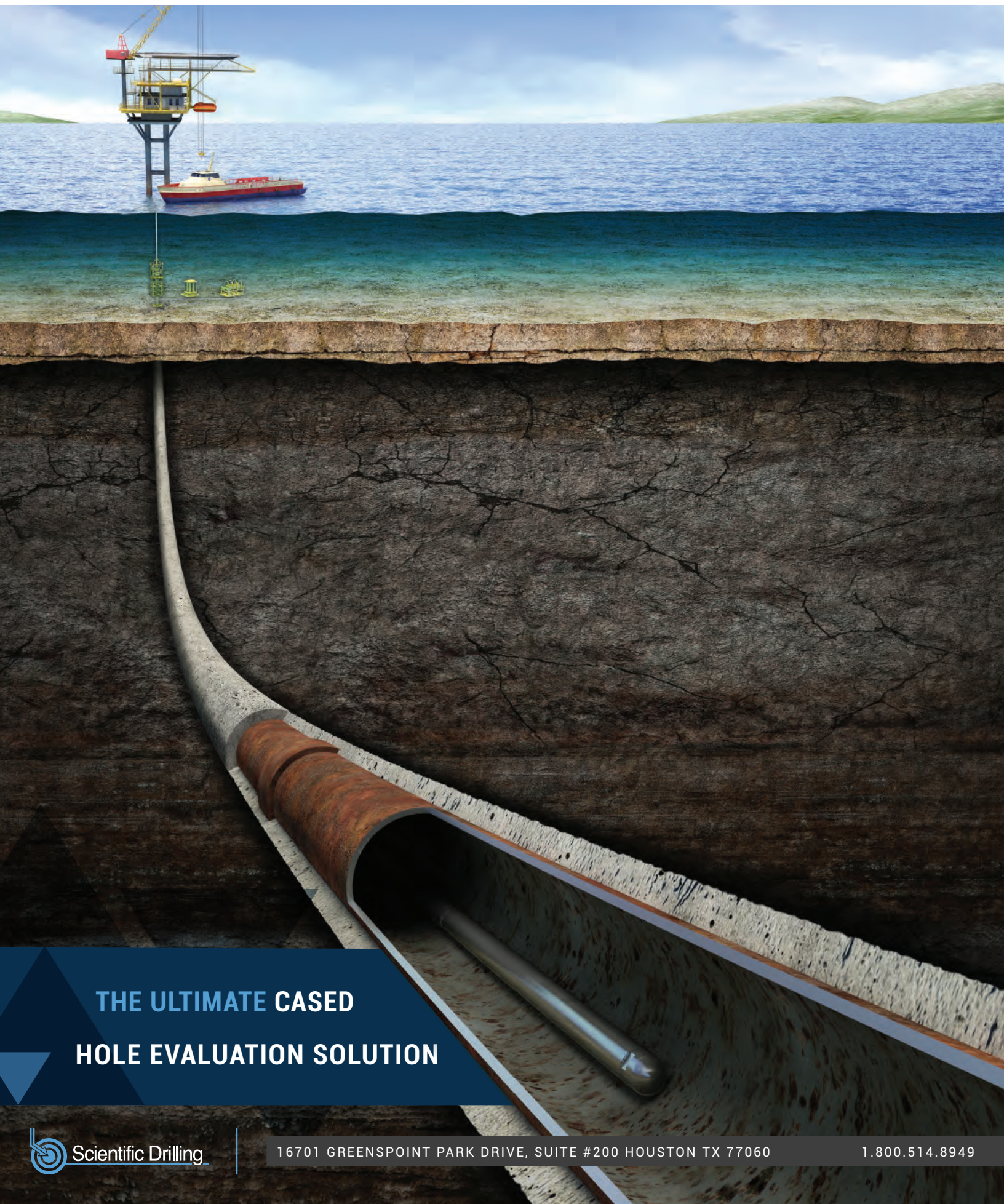


MPNN 1.625

MEMORY PULSE NEUTRON-NEUTRON



**THE ULTIMATE CASED
HOLE EVALUATION SOLUTION**



The MPNN 1.625 was developed to provide a cost effective way to run pulsed neutron logs. The tool combines conventional pulsed neutron technology with dual He³ detectors. Data from the detectors are recorded to the downhole memory module. The data is uploaded at the surface and used to calculate the borehole and formation components of the decay curve. In addition, the near and far total counts are overlaid on the log and provide gas or low porosity zone indicators.

DELIVERING THE ULTIMATE VALUE

- + Compact design reduces footprint at surface and allows easier passage through tight doglegs
- + Sigma measurement point ~5 ft from bottom of tool, maximizing data acquisition across the interval of interest
- + Flexible data acquisition scheduling for long duration runs
- + Proven reliability with over 1,000 runs
- + Includes integral Gamma-Ray/CCL
- + Slickline/coiled tubing conveyance

TARGET APPLICATIONS

- + Identify potential non-completed hydrocarbon zones
- + Time-lapse water saturation analysis
- + Gas/oil/water contacts

PRODUCT SPECS

LENGTH	17.95 ft (5.47 m)
DIAMETER	1.625 in, 1.69 in
MAXIMUM TEMPERATURE	302°F (150°C)
MAXIMUM PRESSURE	17,500 psi (120,658 kPa)
NEUTRON OUTPUT	14 MeV/neutrons @ 2.6 X 10 ¹⁰ neutron/second
DATA ACQUISITION	64 gates, Near detector 64 gates, Far detector
MEMORY CAPACITY	18 hours of logging
BATTERY LIFE	20 hours