

PRODUCT SPEC SHEET

MEMORY PULSED NEUTRON-NEUTRON SYSTEM 1.625

Scientific Drilling's MPNN is the slimmest, most compact memory pulsed neutron tool on the market. The 1.625" version is the ultimate choice for restricted space and torturous well applications, providing access to wellbore data previously unobtainable.

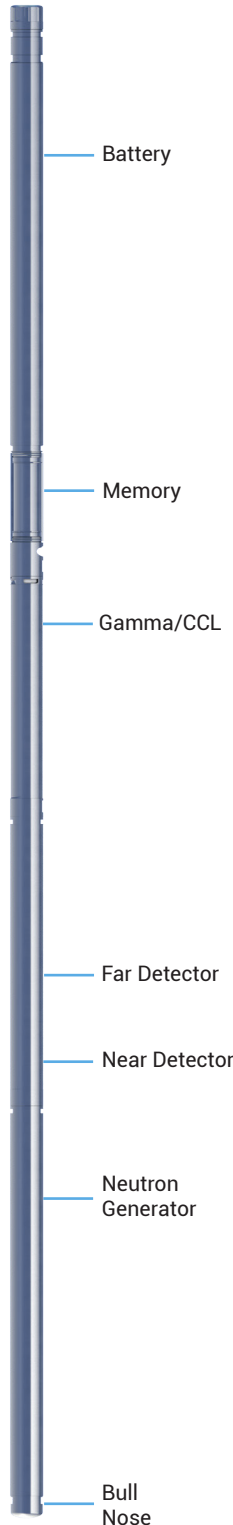
The MPNN was the first memory pulsed neutron tool to provide accurate sigma measurements and near/far count rates for gas detection.

DELIVERING THE ULTIMATE VALUE

- Slickline/coiled tubing conveyed
- Compact design reduces surface footprint needed to run the MPNN
- Includes integral Gamma/CCL
- Flexible data acquisition scheduling for long duration runs
- Far Detector
- Sigma measurement point is 6 ft from bottom of tool, maximizing data acquisition across interval of interest
- Proven reliability with over 1,000 runs

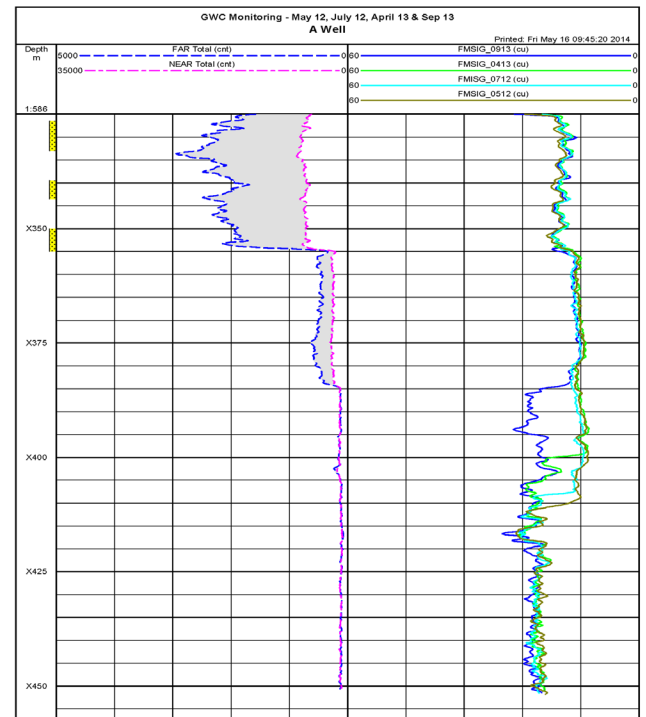
TARGET APPLICATIONS

- Gas/oil/water contact
- Identify potential zones for recompletion
- Time-lapse water saturation analysis



TECHNICAL SPECIFICATIONS	
Length	17.95 ft (5.47 m)
Tool OD	1.625 in
Maximum Pressure	10,000 psi (68,947 kPa)
Maximum Temperature	302°F (150°C)
Neutron Output	14 MeV/neutrons @ 2.6 X 10 ⁸ neutron/second
Data Acquisition	64 gates, Near detector 64 gates, Far detector
Memory Capacity	18 hours of logging
Battery Life	20 hours

**Specifications are subject to change without notice.



MPNN Repeatability - This log illustrates the effectiveness of the MPNN in Gas/Water contact monitoring. The rising GWC is clearly identified in the Sigma response. Above the latest GWC, there is excellent repeatability in the Sigma response.