

CASE HISTORY

MPNN HELPS INCREASE PRODUCTION IN MATURE FIELD

APPLICATION

Production Recovery

TECHNOLOGY

Memory Pulsed Neutron
Neutron Tool (MPNN)

LOCATION

Gulf of Mexico (Shelf)

CUSTOMER CHALLENGE

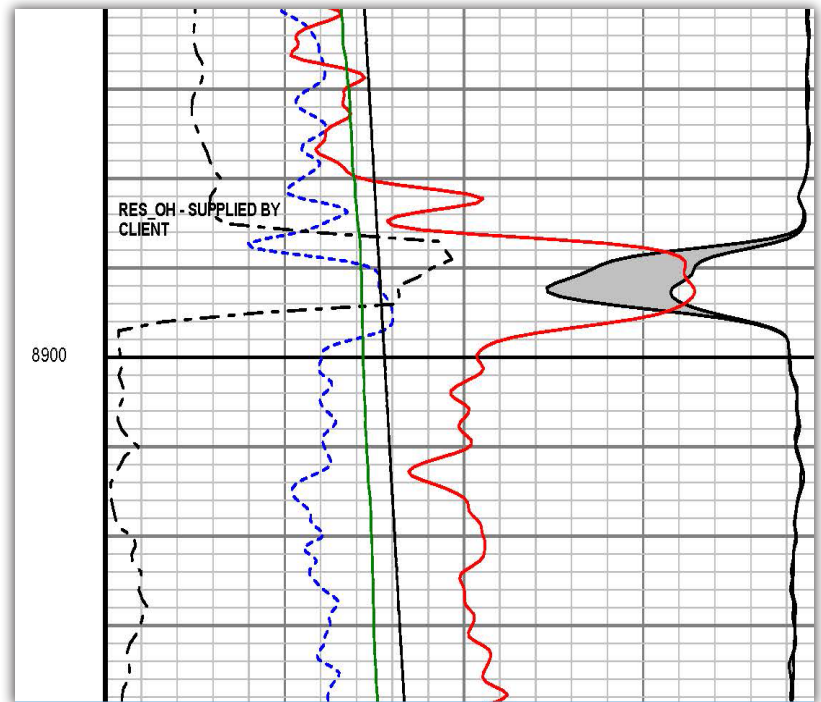
The customer purchased an older field with the intent of revamping production in the most cost effective manner. The primary focus was to search for gas zones in existing wells that could be potential candidates for perforation, with the hope of increasing production. The challenge was to complete the operation in a cost effective manner, including data collection, in order for the customer to realize profits from the original investment.

SCIENTIFIC SOLUTION

Scientific Drilling's MPNN tool enabled the customer to run logs on slickline rather than utilizing e-line. With the added advantage of short length and reduced ID, the MPNN required much less space for the operation and made passage down older wells much easier.

CUSTOMER VALUE

The integrity of the data and log interpretation from the MPNN provided the customer with a cost effective solution to make accurate decisions on the placement of new perforations. The short length of the tool along with the ability to run on slickline provided a reduced operational footprint; this allowed the customer to contract a smaller, less expensive lift boat. The data provided the customer with correct identification of two thin gas zones located on top of the water within a sand bed. These two zones were perforated and commingled at an additional 1,000 Mcf per day (water free).



Formation sigma along with separation between near and far detector counts indicate a gas zone located at 8,888'