

FAULT ANALYSIS USING WELL LOGS IN THE NIGER DELTA, NIGERIA

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ABSTRACT

A Fault present is analyzed between two wells A-2 and A-1 in the Niger Delta. Two stratigraphic horizons were used to determine the presence, size and stratigraphic positions of the faults. These horizons are tops of 4800 and 5000 Sands. In Well A-2, the separation between the tops of 4800 and 5000 Sands horizons is 221ft (67m). The difference between the tops of 4800 and 5000 Sands horizons in Well A-1 is 210ft (64m). Between the two horizons, Well A-1 is short by 11ft (3ft). This shortage indicates the presence of a fault. The fault size is 25ft at 4930ft in Well A-1.

KEYWORDS: Correlation, Fault, Horizon, Shale-Resistivity-Marker, Sand