

Reservoir Description

LamCountSM analysis is a high-resolution net-to-gross reservoir evaluation. The purpose of the study is to define & quantify the reservoir potential using conventional cores. It has been helpful in defining "low-contrast" and/or "low-resistivity" reservoirs. These studies have allowed our clients to book accurate reserves, which were typically higher than what was previously expected from log analysis.

Laminated and thinbedded strata can form in a variety of depositional environments, including channel-levee complexes and fan lobes in deepwater settings. Evaluating thin-bedded and laminated formations can be difficult because the bedding architecture is below the resolution of well logs. Conventional "log-based" evaluations of these deposits can overestimate shale content. which results in a pessimistic reservoir evaluation.

The LamCountsm technique uses a hyper-detailed core description to accurately quantify net-to-gross ratios. Every lamina/bed is measured and statistically grouped by depth and facies. Each layer is also categorized into 'potential', 'marginal', and 'non-reservoir' units. The results are presented in graphical and tabular format, and in a detailed lamination database suitable for log modeling and reservoir simulation. In addition, sand thickness distribution plots are designed to reevaluate the net to gross ratio after removing beds of a certain thickness.

