POST-DRILL LOOK-BACK · EXCEL TEMPLATE · V1.0

Prediction vs. result

A well recommendation is a prediction. After drilling, I go back and check it against what the bit found. A hit can be right for the wrong reason, and misses often share a cause. This template turns that check into a habit: one row per target, filled in twice.

HOW IT WORKS

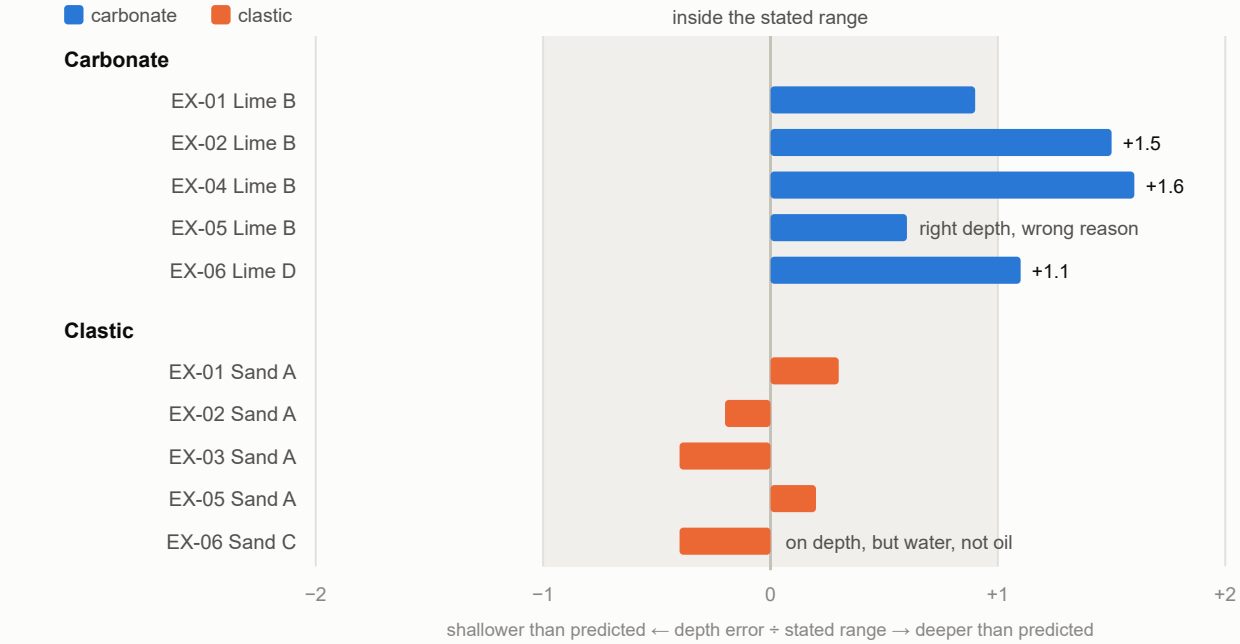
1. Before drilling, write down the date, the predicted top with the ± range you are ready to sign, the net reservoir, the fluid, and what the prediction rests on.
2. After drilling, add what the well found. The sheet works out the depth error, the error in units of your range, the net reservoir error and whether the fluid matched.
3. For every target, hits included, write the main cause and what changes in the next recommendation.

WHAT IT TELLS YOU

- **Bias and calibration.** Do tops come in deep or shallow, and in which group? Do your ranges hold as often as you claim, once chance is allowed for? A range signed at P10–P90 should hold about eight times in ten.
- **Hits for the wrong reason.** Right depth, wrong geology. A plain hit rate never shows them.

Made-up example: 10 targets in 6 wells

Depth error divided by the stated range. A bar inside the grey band means the top landed inside the range.



Seven of ten tops landed inside ranges signed at 80%. Chance alone allows anything from 6 to 10, so the overall share says little. The groups say more: all five carbonate tops came in deep, +20 m on average against −3 m in the clastic sands, and all three tops outside the range are carbonates. Sand A in the same wells came in on depth, so the error sits in the interval above the carbonate, whose velocity came from sand-prone wells. Fix that velocity before widening any range. One hit, EX-05 Lime B, was right for the wrong reason: dolomitisation made the porosity, not the mapped shoal.

> **Checked against a known answer**
> The example was worked out by hand. The Test sheet compares 32 results with those answers, and all 32 pass; recalculated in Google Sheets, it reads the same. Break a formula and the sheet shows FAIL.

Built with AI assistance; the geology and the checks are mine. All numbers are made up; no company data. CC BY 4.0

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