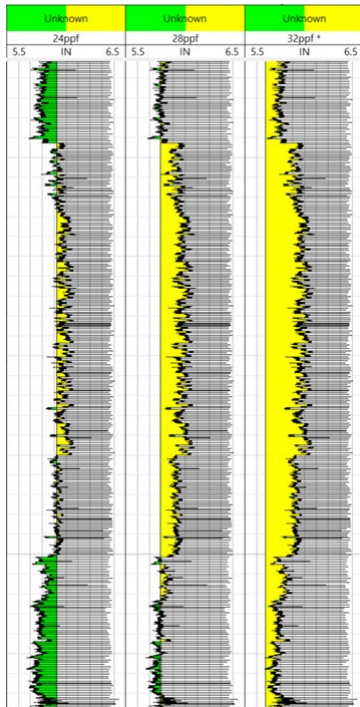


CalView® Tool, Interpretation and Evaluation Services Determined Accurate Measurements for Different Casing Weights of 50-Year-Old Well in Iraq



Comparison between different weights of the nominal ID and the CalView average ID.

LOCATION

Iraq

WELL TYPE

Producer

HOLE SIZE

6-5/8 in. production casing

DEPTH

10,754.59 ft (3,278 m)

PRODUCTS/SERVICES

- CalView tool
- Multi-sensors caliper (MSC) tool
- Interpretation and Evaluation Services

Objectives

- Assess casing integrity and determine precise casing weights for each individual joint along the wellbore of one of Iraq's oldest wells.
- Examine and interpret the historical records dating back to 1971 to identify data gaps.

Our Approach

- The historical records of certain wells in Iraq were lost during the conflicts of the 1990s and 2003. As a result, the accurate determination of casing weight assumes a pivotal role in optimizing the operational efficacy of the customer's well-related activities, including the precise placement of plugs, packers, and various completion elements.
- The Weatherford Interpretation and Evaluation Services (IES) team in Iraq recommended the CalView tool which features 40-60 sets of carbide-tipped fingers, capable of a high sampling rate of 400 samples per meter. This instrumentation incorporates deviation sensors to yield a realistic representation of the well's deviation and temperature sensors for assessing hole presence and identifying fluid entry points.



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Our Approach (continued)

- An advanced investigation of the various casing weights was imperative to address challenges posed by the well, which presented casing weights of 24, 28, and 32 pounds per foot (ppf) for the 6 5/8-in. casing.
- This analysis employed a joint-by-joint approach to casing weight determination, comparing the average inside diameter (ID) with the specified casing weights in the well-bore schematic.

Value to Customer

- The findings revealed 72 distinct casing weight zones distributed across the 10,754 ft (3,278 m) of casing joints. This comprehensive approach enhanced the understanding of casing weight distribution and contributed to the optimization of wellbore integrity.
- The customer acknowledged the inherent value of the CalView tool and the associated advanced analytical techniques, deeming them essential components for guiding future interventions in the field.
- This recognition underscored the tool's efficacy in enhancing the decision-making process and contributing to the successful execution of well interventions and reinforced its pivotal role in the customer's strategic objectives.

