

ABSTRACT

PLANNING CASING SETTING DEPTH IN WELL "WJ-02" BASED ON PREVIOUS WELL DATA OF FIELD "GK"

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When the drilling has reached the planned or programmed depth, the next step is to install the casing. Casing installation is carried out after knowing the location of the casing setting depth for each route. Well "WJ-02" is a well development well in the "GK" field. Well "WJ-02" uses data from the previous well "WJ-01" as an existing well, the location of the two wells is about 50 m apart and is still one wellpad and the formations penetrated are the same formations, namely the Gumai Formation, Baturaja Formation, Pendopo Formation, Talang Akar Formation, and Tertiary Formation. To optimize drilling and prevent drilling problems in the "WJ-02" well, planning is needed before conducting drilling operations. Aspects of drilling planning at the "WJ-02" well include casing setting depth planning.

Planning casing setting depth of well "WJ-02" using pressure window by plotting formation pressure data (pore pressure), formation fracture pressure data (fracture pressure) so that the casing is safe and no kick and loss problems occur.

The results obtained from the "WJ-02" well are that the "WJ-02" well is divided into 5 sections, namely 30" conductor casing, 20" surface casing with 26" bit, 13-3/8" intermediate I with 17-1/2" bit, 9-5/8" intermediate II with 12-1/4" bit, 7" production liner with 8-1/2" bit.

Keywords: casing setting depth 1