ABSTRACT

PLANNING AND CALCULATION OF PLUG AND ABANDONMENT IN "ASR" PROGRAM OF WELL "K-23" FIELD "KAR

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Well "K-023" is one of the wells of the "KAR" field located in the Central Sumatra basin. In accordance with the regulations and policies as well as the following conditions, this well will be closed using the national standard, SNI-13-1069-2002 or NORSOK D-10, which must be used in well closure according to the work plan approved by the director of SKK Migas. Then this well is carried out ASR reserves, one of which is plug & abandonment. The reason for this closure is because the well has run out of oil reserves so that the well closure is carried out to ensure that the well does not cause risk or other additional costs. This planning is also carried out to obtain optimum and efficient plug & abandonment well closure results, so that the results can be used to carry out P&A activities on other wells.

In cementing planning, the plug & abandonment activity at well "K-01" is carried out using the RIG P&A method to make work program calculations on plug & permanent abandonment activities, to determine the range of well depths to be plugged, the volume of cement slurry and additional additives that need to be used. The design of plug & permanent abandonment is made in accordance with Indonesian regulations, namely SNI 13-6910-2002 and is complemented by internationally applicable regulations, namely NORSOK D-10.

From the planning results, there are 3 parts that will be closed or protected, namely the primary well barrier, the secondary well barrier and the environmental well barrier. The platform uses RIG PDSI #07.1/H30FD-M/23. So that the total time required to carry out P&A is in 5 days with the estimated cost required is 593,121 USD covering all activities. Finally, this P&A design and cost calculation can also be used for the closure of the "K-23" well, as well as others in the "KAR" field.

Keywords: P&A 1, ASR 2, RIG method 3, Cost 4,