MATERIAL QUALITY INFLUENCE ON PETROTUB CASING JOINTS FUNCTIONING

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Abstract: The paper presents the influence of the pipe materials on the performances of the integral casing joints. In this case, the wall thickness of the joint elements is alike the thickness of the column pipes. The box and the pin are produced after the pipes ends widening (under cold conditions for the box) and after the ends pipes compression for the pin (same technological conditions). A two steps buttress thread assures the joint functioning. The sealing zones (metal/metal elastic contacts) are placed, one on the outer of the join and the second on the inner zone of the box. A plastic material gasket may be used, like anticorrosive barrier, in the inner sealing zone. The central shoulder assures the final contact between the pin and the box and limits the make up torque. The value of the make up torque is the main parameter of well column mounting, because its influence on the contact deformations in the metal/metal contacts of the sealing PETROTUB S.A. Roman, Romania produces these joints, under an original Romanian license [2]. The joints are applied in the gas and oil extractive industry. The performances of the joint are determined according to the API recommendations.
Key words: casing joints, oil, gas extractive industry, materials.