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Updated methodology for evaluating lost circulation control of cement slurry for double lost channels

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6 Abstract

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7 This paper presents an evaluation method for evaluating the sealing 8 capacity of cement slurry with lost circulation control for effective lost 9 channel sealing during cementing operations. The method was developed 10 based on a lost device and an evaluation model that we developed 11 ourselves. This evaluation model includes three critical evaluation 12 indexes: the loss time, loss weight, and maximum sealing pressure. In 13 addition, it can be used to quantitatively evaluate the effective sealing 14 capability of cement slurry with lost circulation control. This method is 15 aimed at evaluating the sealing capacity of cement slurry as a way to 16 investigate its applicability in designing effective treatments for the 17 sealing of multiple lost channels. The results suggest the particle lost 18 circulation materials (LCM) can improve the bridging capacity of fiber 19 cement slurry. The loss capacity of a fracture-pore double lost channel is 20 not equal to that of a fracture and a channel superposition. Moreover, the 21 lost channel method can avoid an excessive or overly low evaluation of

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