

Here, E_c is the cement volume V_c (in ft³) that must be eroded in a given time period (in hours). This calculation is charitable to Griffiths because he mentioned "any resistance to flow by the cement or other down-hole restrictions." Thus, not just the designated cement volume must be removed during the 9-hour period, but additional material (with probably higher erosion resistances, say steel in the float collar) as well. And as noted above, there would also have been cement in the annulus resisting flow.

"It could be argued that netistance to flow may and before all the coment eroded. At we will see, however, the government experts require an erocion rate that is much higher than any reported coment erosion rates. This assumption thus does not affect our results and simplifies our analysis.

"Curlifful's Report, page 12 (19 hours represents ... the time to complete elimination of any resistance to flow by the consent...").

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