Assuming that the result of a wireline formation test analysis is a description of spherical permeability, k_{tro} for each layer,

of assumptions are made. In particular, the permeability anisotropy must be known or estimated.

Conclusions

- A well test can be replaced by a wireline formation test if the objectives of the well test can be met by the wireline formation test.
- In lower permeability reservoirs (mobilities less than about 100 mD/cp), the quality of data recorded by wireline formation test tools is suitable for pressure transient interpretation. In higher permeability, the resolution of the pressure gauge limits the quality of the data often precluding transient analysis and the FRA method then provides the best estimate of mobility.

coses where an observation gauge is used to measure vertical interference, there is also the possibility to evaluate permeability anisotropy.

 Upscaling the permeabilities derived from wireline formation tests to a prediction of the performance of a fully completed well is possible provided a number Danguce, 8: Fragienty Asket Question it well feet Analysis" paper SPE 63077 presented at the 2000 SPE Annual Technical Conference and Exhibition, Dullas, Texas, Oct. 1-4.

- ³² Goode, P.A. and Thankymyagam, K.M.: "Permeability Determination With a Multiposbe Formation Tester," SPEFE (Dec 1982) 297 (SPE 20737)
- ³⁰ Proces, M. A., et al.: "Advanced Dual Probe Formation Tester with Transiers, Harnestin, and Polsed Time-Delay Testing Methods

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