



Generalized Well Semianalyitical Coning Models

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Simplified Procedure for Water Coning Prediction in Oil Wells | Production of oil often leads to the coning of water or gas. This dynamic interaction can be captured by a properly detailed reservoir simulation, which unfortunately may not always be practical. To brigde the gap, researchers have been interested in developing both analytical and empirical methods of modelling gas and water coning in oil reservoirs. The fundamental questions have always been: what is the critical rate of oil production; the breakthrough time if the critical rate is exceeded; and the post-breakthrough behaviour? In this book, a semi-analytical method has been developed to estimate oil critical rate, breakthrough time and post-breakthrough trend for inclined wells. The Postbreakthrough prediction scheme was extended to vertical and horizontal wells. Simplified correlations have also been generated for easy application of the method without recourse to complex mathematical functions. This book will be useful to the petroleum engineer and other oil professionals interested in predicting the extent and impact of water coning, especially during the early life of an oil reservoir when there are limited reservoir and production controls. | Format: Paperback | Language/Sprache: english | 108 pp.



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