1. Record Nr. UNINA9911006548603321

Autore	Author) IAEA (Corporate
Titolo	Application of Radiotracer Techniques for Interwell Studies
Pubbl/distr/stampa	Lanham : , : International Atomic Energy Agency, , 2012 ©2012
ISBN	1-5231-3008-3 1-283-59418-8 9786613906632
Edizione	[1st ed.]
Descrizione fisica	1 online resource (248 pages)
Altri autori (Persone)	Editor)IAEA (Corporate
Soggetti	Radioactive tracers in geophysics Geothermal resources
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- FOREWORD -- CONTENTS -- COPYRIGHT NOTICE -- 1. Introduction -- 1.1. Background -- 1.2. Interwell tracer technology USE in oilfieldS -- 1.3. Interwell tracer technology USE In geothermal fieldS -- 2. Technical Steps in THE Application of Interwell Tracer technology -- 2.1. Planning an interwell tracer test -- 2.2. Implementation of field related operations -- 2.3. Tracer analysis steps -- 2.4. Data interpretation -- 3. QUALITY ASSURANCE of tracers and analytical METHODS -- 3.1. Tracer stability and integrity -- 3.2. analysis of radiolabelled [Co(CN)6]3- and SCN- in the same sample -- II.1. Laboratory intercomparison test on HTO analysis -- II.2. Laboratory intercomparison of analysis of HTO and 14C tagged Methanol -- II.3. LABORATORY INTERCOMPARISON OF PRODUCTION CURVES WITH THE ANDURIL software program -- REFERENCES -- Contributors to drafting and review.
Sommario/riassunto	The main purpose of interwell tracer tests in oil and geothermal reservoirs is to monitor qualitatively and quantitatively the injected fluid connections between injection and production wells and to provide important data for better understanding the reservoir geology in order to optimize the production strategy and thereby maximize the oil recovery or thermal energy production. Most of the information

given by the radiotracer tests cannot be obtained by other means. Based on the key findings of an IAEA coordinated research project in this area, this publication describes the principles and the state-of-the-art of radiotracer techniques for interwell investigations, provides practical guidance on the design and implementation of tracer experiments as well as on the interpretation of the results.