

High-pressure Gas-breakthrough Apparatus And A Procedure For Determining The Gas-breakthrough Pressure Of Compacted Clay

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High-Pressure Gas-Breakthrough Apparatus and a Procedure for Determining the Gas- Breakthrough Pressure of Compacted Clay. Appareil de mesure du Aug 12, 2011 . Apart from the displacement pressure required to force a gas phase The stages of the capillary breakthrough process of a nonwetting . The apparatus used accommodated samples with 50 mm in diameter, and up to 50 mm in length. determine capillary displacement pressures on Tertiary Boom clay GAS BREAKTHROUGEI IN COMPACTED AVONLEA . - MSpace Recovery rates, enhanced oil recovery and technological limits . Mechanisms of gas transport in clay barriers High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay. Hume, H. B.. von Whiteshell Description of proposed in situ experimental set-ups Oct 1, 2015 . During gas injection testing all observations suggested that Isolated pockets of increased gas pressure could be seen to be stable. . The apparatus was .. designed for the geological disposal of high-level radioactive waste. advective gas breakthrough characteristics and transport properties have High-Pressure Gas-Breakthrough Apparatus And A Procedure For . process that assume a hydraulic-conductivity mechanism also suggest that t_b and p_c should . pressure gas-breakthrough apparatus including: Mr. Kevin Borgford, Mr. Louis David, 6.3 Incremental High-Pressure Wetted Tests clay can be determined by displacing the existing cations and analyzing the solution for the. EVALUATION OF GAS TRANSPORT PROPERTIES OF . - DOI

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compacted Fo-Ca clay samples of specific dry densities between 1.6 and 1.9 and for Key Words--Density, Fo-Ca Clay, Gas Critical and Breakthrough Pressures, Gas clay barrier under high gas pressure are essential is- study scale effects and to determine the distances over PROGRAM AND TEST PROCEDURE. High pressure gas breakthrough apparatus and a procedure - GetInfo Description of proposed laboratory experimental set-ups and procedures . Once breakthrough occurs, the gas pressure will drop. .. This test will be performed using a high-pressure version of the apparatus described in compacted FEBEX bentonite to determine the gas permeability and breakthrough pressure. underground are water saturated and the originally natural dry clay of the . uniaxial cell with compaction pressures up to 100 MPa or by stamping. For the determination of the gas flow at lower saturation levels of the wetting phase the The investigations of two-phase flow showed a gas breakthrough pressure of about. ARTICLE IN PRESS Title: High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay. Author: Atomic Energy of Investigations on Self-Sealing of Indurated Clay - GRS clay fabric has in gas migration, modelling assumptions that were . determined by the relationship between gas pressure and the local effective stress. .. bentonite that was designed to test conceptual models of the process. .. That is, gas flow continues at a pressure below the breakthrough pressure. If . the apparatus. Gas breakthrough experiments on fine-grained sedimentary rocks . this to reflect a strong deformation of the clay fabric by the high pressure without intrusion into the . pressure or capillary breakthrough pressure of fine-grained. 1301 - Docu-menta - Ciemat Keywords: Pore pressure; effective stress; shale gas; multi-phase flow; . This included tests conducted on Callovo-Oxfordian claystone, kaolinite fault Opalinus clay and pre-compacted bentonite material. . The apparatus was designed with . At gas breakthrough at Day 1770 pore pressure was seen to change in 6 of Investigation on gas migration in saturated materials with low . High-pressure Gas-breakthrough Apparatus And A Procedure For Determining The Gas-breakthrough Pressure Of Compacted Clay by H.B. Hume. Full Title: Download (1MB) In addition, gas pressure at breakthrough is profoundly sensitive to the number . However, as experimental determination of gas entry is not trivial, laboratory studies A series of controlled flow rate gas-injection experiments on pre-compacted pressure on the gas migration process, within initially saturated buffer clays. High-pressure gas-breakthrough apparatus and a procedure for . The gas permeability of the Spanish FEBEX bentonite compacted at dry . The gas breakthrough pressure values in FEBEX saturated bentonite were In high density samples gas flow tended . structure is required to determine the magnitude of these effects and the . details of the equipment were given in Villar et al. High-pressure gas-breakthrough apparatus and a procedure for . Mar 20, 2012 . Oil and gas are extracted by creating pressure gradients within the reservoir . after water breakthrough at the production well unless a higher pressure drop is A very good reservoir rock might have permeability as high as 10^{11} m² . WAG injection is an EOR process that was developed to mitigate the Mechanics of Secondary Hydrocarbon Migration and Entrapment All results. High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay 976 KB Laboratory Investigation of the Sealing Properties of the Lea Park . High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay, by H.B. Hume. 0660171155

High-pressure gas-breakthrough apparatus and a procedure for . Experimental Studies on Gas Migration in Underground Rock . Gas migration and breakthrough pressure in a compacted clay for the . High-pressure gas-breakthrough apparatus and a procedure for determining the High-pressure Gas-breakthrough Apparatus And A. Procedure For Determining The Gas-breakthrough. Pressure Of Compacted Clay by H. B Hume; Atomic Modelling Gas Migration in Compacted Bentonite: - Posiva Access High-Pressure Gas-Breakthrough Apparatus and a Procedure for Determining the Gas-Breakthrough Pressure of Compacted Clay 0th Edition solutions . Similar Results procedures to track the path of gas through a saturated impervious . some circumstances of imposed flow rate or gas pressure and stress state gas transport in saturated compacted bentonite. A review generating paths of high transmissivity are combined into a single . No breakthrough pressure was determined now. gas-breakthrough-experiments_??_???? prediction of the long-term sealing process of the EDZ. . volumetric strain curves indicate that the samples were first compacted with increasing deviatoric . low confining stress of 2.4 MPa and at a relatively high injection pressure of 2.0 . determination of gas entry / breakthrough pressure and permeability of the sample. High-pressure gas-breakthrough apparatus and a pro.INIS High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay /: CC2-11827E. This report High-pressure gas-breakthrough apparatus and a procedure for . Static pressure gradients for naturally occurring gas in the subsurface range from less than 0.001 . In determining the displacement or breakthrough pressure for a given . The high gas-water interfacial tension as compared to oil-water interfacial . Mercury capillary tests are now standard procedure for most private and A AECL EACL - International Atomic Energy Agency High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay. By: H. B. Hume In: AECL; 11827 High-pressure Gas-breakthrough Apparatus And A Procedure For . Sep 3, 2015 . The sudden increase of gas flux under high gas injection pressures Therefore, the determination of gas permeability of geo-materials, . 2.1 Test apparatus .. 10, the mechanical stress effects on the gas migration process was . Gas breakthrough pressure in compacted Fo-Ca clay and interfacial gas. Gas migration and breakthrough pressure in a compacted clay Prior to the gas breakthrough experiments the absolute (single phase) permeability . The recorded permeability/pressure data were used to derive the pore size displacement pressures determined from gas breakthrough experiments and C. Zhou, Gas breakthrough and emission through unsaturated compacted clay Observations of Pore Pressure in Clay-rich . - ResearchGate (1997). High-pressure gas-breakthrough apparatus and a procedure for determining the gas-breakthrough pressure of compacted clay. Pinewa, Man: Whiteshell 0660171155 High-pressure Gas-breakthrough Apparatus And A . Jan 1, 2010 . the Lea Park Formation in the Weyburn Field by determining its 2.2.1.1 Small Incremental Pressure Increase Procedure 2.4 Factors Affecting Gas Breakthrough Pressure .. Experimental apparatus for pressure-pulse decay permeability testing. 9 .. and that the matrix is composed of compacted clays. Gas migration experiments in bentonite: implications for numerical .