

Remediation of CO2 leakage from deep saline aquifer storage based on reservoir and pollution engineering techniques

Jeremy Rohmer

▶ To cite this version:

Jeremy Rohmer. Remediation of CO2 leakage from deep saline aquifer storage based on reservoir and pollution engineering techniques. 2nd EAGE CO2 Geological Storage Workshop, Mar 2010, Berlin, Germany. hal-00531781

HAL Id: hal-00531781 https://brgm.hal.science/hal-00531781

Submitted on 3 Nov 2010

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Remediation of CO₂ Leakage from Deep Saline Aquifer Storage Based on Reservoir and Pollution Engineering Techniques

Jeremy Rohmer^a, Thomas Le Guenan^a, Arnaud Reveillere^a, Chan Quang Vong^a ^aBRGM, "Natural Hazards and Safety of CO₂ Storage" Division, Orléans, FRANCE



Acknowledgments

This work was funded under the BRGM's Research project "Gestion des Risques" integrated in the Directorate of Research project CSCR03.

Géosciences pour une Terre durable

brgm

J. ROHMER, T. LEGUENAN, A. REVEILLERE, C.Q. VONG j.rohmer@brgm.t BRGM

ae. C., Lions, J., Humez, P., 2009. Modeling of CO2 leakage thro Audigane, P., Chia ater. Proceedings of the TOUGH

Audigane, P., Chiaberge, C., Lions, J., Humez, P., 2009. Modeling of CO2 leakage through an abandoned well from a deep saline aquifer to fresh groundwater. Proceedings of the 1 Symposium 2009. LBNL, Berkeley, California, September 14-16, 2009.
European Commission, 2009. Directive 2009/31/EC of the European Parliament and of the Council of 23 April:2009 on the geological storage of carbon dioxide IEA-GHG, 2007. Remediation of Leakage from CO2 Storage Reservoirs. IEA Greenhouse Gas R&D Programme, 2007/11, September 2007.
Le Guenan T., Rohmer J., Gastine M., 2009. Manging CO2 seleage risk for deep saline aquifer reservoirs through preventive and corrective measures based on reservoir engineer. Aplication to the Paris basin case, in The 3th Trondheim Conference on CO2 Capture Transport and Storage - Norgère - Trondheim -16-17 June 2009 Pruess, K., 2005. ECO2N: A TOUGH2 Full property Module for Mixtures of Water, NaCI, and CO2. Report LBNL-5792. Lawrence Barkeley National Laboratory, Berkeley, CA, USA Vong C.G., Lions J., Audigane P., Humez P., Chiaberge C., Bouc O., 2009. Potential hydrogeochemical impacts of CO2 leakage inti shallow aquifers : review and modelling., in CO 2009 Annual Seminar Agenda. Trondheim - Norway - 18:19 June 2009.
Xu T., Sonnenthal E. L., Spycher N., Pruess K., 2004. TOUGHREACT user's guide. Lawrence Berkeley National Laboratory Report LBNL-55460. ective measures based on reservoir engineering lina.. in CO2NET