

## **Technical Reports (JIP access only):**

### **2014**

Development of a geostatic model for a geoscience field research station in Alberta, *Jessica M. Dongas Jessica and Don C. Lawton*, CaMI Research Report, 2014.

Preparing for experimental CO<sub>2</sub> injection: Geology of the site, *J. Helen Isaac and Don C. Lawton*, CaMI Research Report, 2014.

Preparing for experimental CO<sub>2</sub> injection: Seismic data analysis, *J. Helen Isaac and Don C. Lawton*, CaMI Research Report, 2014.

A 3C-3D seismic survey at a new field research station near Brooks, Alberta, CaMI Research Report. *Don Lawton, Malcolm Bertram, Kevin Bertram, Kevin Hall, and Helen Isaac*, CaMI Research Report, 2014.

Field Guide to CMC Research Inc's Newell County Field Research Station, *Kirk Osadetz*, CaMI Research Report, 2014.

### **2015**

Baseline Field Study at the Containment and Monitoring Institute (CaMI) Field Research Station (FRS), Newell County Alberta, *Kirk G. Osadetz, Don C. Lawton and Amin Saeedfar*, CaMI Research Report Vol. 0, 2015.

Development and characterization of a geostatic model for shallow CO<sub>2</sub> injection, *Jessica M. Dongas and Don C. Lawton*, CaMI Research Report Vol. 0, 2015.

3D3C seismic data at the Brooks experimental CO<sub>2</sub> injection site, *J. Helen Isaac and Don C. Lawton*, CaMI Research Report Vol. 0, 2015.

A case study of an offset-dependant seismic response, *J. Helen Isaac and Don C. Lawton*, CaMI Research Report Vol. 0, 2015.

New approaches to seismic monitoring at the Brooks Field Research Station, *Don C. Lawton, Malcolm Bertram, Kevin Hall and Kevin Bertram*, CaMI Research Report Vol. 0, 2015.

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Brooks Revisited, *J. Helen Isaac and Don C. Lawton*, CaMI Research Report Vol. 1, 2016.

The seismic interpretability of a 4D data, a case study: the FRS project, *Davood Nowroozi, Don C. Lawton and Hassan Khaniani*, CaMI Research Report Vol. 1, 2016.

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Toward robust multicomponent FWI on land data: handling topography and data conditioning, *Raul Cova, Bernie K. Law and Kris Innanen*, CaMI Research Report Vol. 2, 2017.

Zero offset VSP processing of fiber optic cable (DAS) and geophone array at the CaMI Field Research Station, *Adriana Gordon and Don C. Lawton*, CaMI Research Report Vol. 2, 2017.

Special core analysis for the Containment and Monitoring Institute Field Research Station, *Samuel Krevor and Samuel Jackson*, CaMI Research Report Vol. 2, 2017.

Reservoir simulations and feasibility study for seismic monitoring at CaMI.FRS, *Marie Macquet and Don C. Lawton*, CaMI Research Report Vol. 2, 2017.

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Seismic monitoring with continuous seismic sources, *Tyler W. Spackman and Don C. Lawton*, CaMI Research Report Vol. 2, 2017.

## **2018**

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Processing and analysis of data recorded from a buried permanent seismic source, *Tyler W. Spackman and Don C. Lawton*, CaMI Research Report Vol. 3, 2018.

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Coupled reservoir-wellbore model to study pressure and temperature variations in the CO<sub>2</sub> injection well at the CaMI Field Research Station, *Somayeh Goodarzi and Don Lawton*, CaMI Research Report Vol. 4, 2019.

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Update on DAS and geophone VSP surveys at the CaMI Field Research Station, Newell County, Alberta, *Don Lawton, Adriana Gordon, Michael Hall, Svetlana Bidikhova, Kevin Hall and Malcolm Bertram*, CaMI Research Report Vol. 4, 2019.

## 2020

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Passive seismic imaging and monitoring using ambient noise body waves, *Yunfeng Chen, Feff Gu, Mauricio Sacchi, Tianyang Li, Marie Macquet, Hersh Gilbert, and Don Lawton*, CaMI Research Report Vol. 5, 2020 .

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Dynamic investigation of CO<sub>2</sub> wellbore transient flow in shallow CO<sub>2</sub> injections: Application to CaMI CO<sub>2</sub> injection tests at the FRS storage site, *Seyed Mostafa Jafari Raad, Greg Maidment, Don Lawton, and Hassan Hassanzadeh*, CaMI Research Report Vol. 5, 2020.

Time-lapse VSP results from the CaMI Field Research Station, *Brendan Kolkman-Quinn, and Don Lawton*, CaMI Research Report Vol. 5, 2020.

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Microseismicity detection and seismic ambient noise correlation at the CaMI Field Research Station, Newell County, Alberta, *Marie Macquet, Don Lawton, Helen Isaac, Genevieve Savard, Franki Race, Hersh Gilbert, Anna Stork, Mike Kendall, Rob Kendall, Greg Maidment, Jeff Gu, Yunfeng Chen, and Tianyang Li*, CaMI Research Report Vol. 5, 2020.

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Microseismic monitoring at the CaMI Field Research Station, *Genevieve Savard, Hersh Gilbert, Marie Macquet, Don Lawton, and Kirk Osadetz*, CaMI Research Report Vol. 5, 2020.

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## **2021**

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Horizontal-to-Vertical Spectral Ratio (HVSr) Seasonal Variations at a Shallow CO<sub>2</sub> Injection Site, the CaMI Field Research Station in Alberta, Canada, *Laleh Khadangi, Hersh Gilbert, Genevieve Savard, Donald Lawton, Marie Macquet*, CaMI Research Report Vol. 6, 2021.

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Microseismic Noise at the CaMI Field Research Station by Machine-Learning Phase Picker and New Dense Nodal Array, *Tianyang Li, Yu Jeffrey Gu, Jingchuan Wang, Hang Wang, Hersh Gilbert, and Genevieve Savard*, CaMI Research Report Vol. 6, 2021.

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Rapid repeat seismic monitoring of CO<sub>2</sub> injection, *Xiaohui Cai, Kris Innanen, Qi Hu, Matt Eaid, Scott Keating, Kevin Hall, and Don Lawton*, CaMI Newell County Facility, Research Report, Vol. 7, 2022.

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The croissant: a smaller, fluffier, flakier pretzel, *Kevin Hall, Kris Innanen, and Don Lawton*, CaMI Newell County Facility, Research Report, Vol. 7, 2022.

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