

2019 CORE to Characterization WORKSHOP

AER CORE RESEARCH CENTRE

OCTOBER 3, 2019

CALGARY, AB CANADA



CSPG
Canada's Energy Geoscientists

OIL SANDS SESSION

Session Introduction:

The Importance of Core for Appraisal in the McMurray Oil Sands

Authors: Bruce James, James Reservoir Inc.

An Overview of Oil Sands Reservoirs of Northern Alberta, Canada

Authors: Michael Webb, Suncor Energy & Andres Altosaar, Suncor Energy

Using Sedimentological Textures and Bitumen Geochemistry to Predict the Lateral Extent of Shale Beds and Lean Zones in Oil Sands Formations

Authors: Ian Perry, Independent & Mike Ranger, Independent

Case Study of Steam Chamber Growth in Complex Reservoir Using Observation Wells, 4D Seismic and Biomarkers

Author: Noel Devere-Bennett, CNOOC Intl.

SAGD Production Performance and the Impact of Horizontal Well Placement in Different Reservoir Units of the Clearwater Formation (Lower Cretaceous) at Orion, Cold Lake

Authors: Alex J. MacNeil, OSUM Oil Sands Corp. & Jen Russel-Houston, OSUM Oil Sands Corp. & Blair Kessler, OSUM Oil Sands Corp.

Reservoir Characterization Using Grain Size and Water

Author: Bruce James, Suncor Energy Retiree now James Reservoir Inc. & Faye Warrington, Suncor Energy & Katherine Stavropoulos, Suncor Energy

Mid-life Steam Core from Jackfish 2 Pad BB; The impact of facies on Chamber Growth

Author: Scott Barlund, formerly Devon Canada Corporation

Subject to change. As of August 30, 2019

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TIGHT SANDS SESSION

Advances and Modern Techniques in Exploiting Tight Gas Sands with Examples from the Spirit River Formation

Authors: Adam Pugh, Cenovus Energy & Nathan Leonard, Cenovus Energy & Eric Hanson, Cenovus Energy & Michael Hearn, Cenovus Energy

Impact of Depositional Facies on Drilling, Completions and Production in the Cardium Tight Oil Play

Authors: Rainer Czypionka, Ridgeback Resources

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ORGANIC-RICH MUDSTONES SESSION

Session Introduction:

Organic-Rich Mudstones: An Overview of the Key Plays in North America and Beyond

Authors: M.E. Janssen, Shell Canada Ltd., A. Ghanizadeh, University of Calgary

Experimental Investigation of Huff-n-Puff EOR in Eagle Ford and Permian Basin Sample

Author: A. Tinni, Mewbourne School of Petroleum and Geological Engineering, The University of Oklahoma

Evaluation of Water Imbibition in Oil Shales

Author: C.S. Miller, Centre for Petroleum and Geosystems Engineering, the University of Texas at Austin

Vertical Facies Heterogeneity and Its Role on Geomechanical and Petrophysical Reservoir Properties: A Multi-Scale Analysis of The Duvernay Formation of The East Shale Basin, Alberta-Canada

Authors: H. Galvis-Portilla, P.K. Pedersen, A. Ghanizadeh, C.R. Clarkson

Department of Geoscience, University of Calgary

West Shale Basin Duvernay Oil: Translating a Data Acquisition Program to a Static and Dynamic Model

Authors: C. Rezk, Cenovus Energy

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MONTNEY SESSION

Session Introduction:

The Canadian Montney Formation: Advanced Reservoir and Hydraulic Fracture Characterization in Support of Field Development – A Core Transect from British Columbia (BC) to Alberta (AB)

Authors: A. Ghanizadeh¹, M.E. Janssen², R.C. Martin³

¹ Department of Geoscience, University of Calgary; ² Shell Canada Ltd.; ³ ARC Resources Ltd.

The Importance of Core Description and Core Analysis in Understanding the Geology and Building the Geomodel of the Alberta Portion of Ring-Border Montney Shoreface Reservoir

Authors: T. Jerome, S.J. Ahmed, Z. Jia, N. Singh, G. Smith G., M. Usman

The Montney at Waskahigan – Understanding Reservoir Quality of a Prolific Tight Oil Field in West Central Alberta, Canada

Authors: L. Boulter¹, M. Bustin², A. Essery¹

¹ Tangle Creek Energy Ltd.; ² Department of Earth, Ocean and Atmospheric Sciences, University of British Columbia

Integrating core, cuttings and fluid analyses to optimize field development design – Montney example from the Altares Field (British Columbia)

Authors: J.Y. Chatellier¹, T. Euzen², M. Enter³

¹ Tecto Sedi Integrated Inc.; ² IFP Technologies (Canada) Inc.; ³ SGS Canada Inc.

Geological Controls on Hydrocarbon Transport Properties of the Montney Formation: An Integrated Core Analysis Approach

Authors: A. Ghanizadeh¹, D.J. Cronkwright¹, C.R. Clarkson¹, A. Vahedian¹, J.M. Wood², O.H. Ardakani³, H. Sanei⁴

¹ Department of Geoscience, University of Calgary; ² Calaber1 Resources; formerly at Encana Corporation; ³ Geological Survey of Canada; ⁴ Aarhus University

Advanced Core Characterization in Support of Montney Development Optimization: A Journey from Laboratory to Field

Authors: A. Ghanizadeh¹, C.R. Clarkson¹, A. Vahedian¹, C.S. Iwuoha¹, P.K. Pedersen¹, B. Rashidi¹, C. Song¹, D. Cronkwright¹, A. Younis¹, S. McKean², N. Riazi¹, J. Priest², R.C.K. Wong²

¹ Department of Geoscience, University of Calgary; ² Department of Civil Engineering, University of Calgary

Subject to change. As of August 19, 2019