

BARRY G. RODGERS

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Key Words: Energy, Economics, Risk Analysis, Oil, Gas, Upstream, Canada, Russia, Mexico, USA, International, Fiscal, Taxation, Resources, Planning, Cash flow, Benefit-Cost, Socio-Economic, Modelling, Strategy, Negotiation, Management, Policy, Regulation.

PROFESSIONAL HISTORY

Business:

- Established RODGERS OIL & GAS CONSULTING in 2010 to provide clients with upstream economics analysis, training, and related information services. View www.bgrodgers.com for further information.
- RODGERS OIL & GAS is co-producer of *World Fiscal Systems for Oil & Gas (WFSOG) – 2012* (500 fiscal systems incorporating 245 jurisdictions, representing 156 countries. See Attachment 1.
- RODGERS OIL & GAS markets PEET® - Petroleum Economics Evaluation Tool. PEET® is uniquely designed to support a full-perspective approach to economic decision-making, fiscal system design and evaluation, negotiations, and policy dialogue. See Attachment 2

Consulting – Sample List:

- Economic Analysis of the Green Point Shale – Newfoundland and Labrador Hydraulic Fracturing Review Panel. (November, 2015)
- Fiscal System Analysis of Mexico’s New Hydrocarbons Law. (December 2014 & March 2015)
- United Nations Production Levy – Unnamed Client – Provided in the context of a broader study on the potential impact on investment. (June 2015)
- Oil & Gas Producers; e.g., Husky Energy (2015, 2014), Repsol Energy (2013 – 2014) – special topics.
- African Petroleum Producers Association (APPA) – Review of fiscal system competitiveness for association members. (2012)
- Fiscal System Research - Subcontract to Van Meurs & Associates to provide research services to support “World Fiscal Systems for Oil and Gas: Edition - 2001” and advice to Petroleos Mexicanos respecting petroleum rights issuance and fiscal system alternatives (2001).
- Russia: Management and delivery of the “Evaluation of Petroleum Joint Ventures Project”. Under the auspices of the Canadian Institute for Resources Law, this project included economic assessments of: (1) Western petroleum investment in Russia and (2) the Russian petroleum fiscal system and related proposals for reform, including “Options for Kamchatka Gas” (Jan. 2000).

Teaching:

- Petroleum Economics Decision-Making and Fiscal Systems Modelling:
 - Various locations, open and in-house; e.g., Edmonton, Moscow, Istanbul, Singapore.
- Sessional Professor – Project Evaluation, Faculty of Engineering, Memorial University, 1990.
- See Attachment 3 for selected comments from course participants.

EDUCATION

University - Memorial University of Newfoundland:

- Bachelor of Arts (Economics and Mathematics) 1978. Master of Philosophy (Liberal Arts), 2000
- Books: *Essays in Western Philosophy*, Memorial University, St. John’s, 2001.
- Public Speaking: Dale Carnegie Course in Public Speaking and Human Relations
- Toastmasters: Member
- Languages: Conversational Spanish (Introductory).

EXPERIENCE

MANAGEMENT:

- Twenty-five years of experience in increasingly senior positions in the areas of energy resource management, negotiation, and strategy. Experience includes:
- Building world-class energy economics capacity;
- Management, motivation, and direction of multi-disciplinary teams of professionals and other staff;
- Provision of strategic advice to Executive decision makers and political representatives.

Energy Policy Development and Analysis:

- Executive Director – Economics & Markets Branch, Alberta Department of Energy (2008 – 2010). Responsible for developing the Branch to inform energy economics and fiscal policy integration into the broader energy and Government of Alberta mandate.
- Project Director - *Alberta Natural Gas and Conventional Oil Investment Competitiveness Study* (2009 – 2010).
- Team Lead - Alberta Royalty Review (Jan. – Oct., 2007): Accountable for the direction of economic analysis and fiscal systems design for the Alberta Royalty Review Panel; for all commodities - natural gas, conventional oil, and oil sands.
- Business Unit Leader – Natural Gas (2003 – 2008): Accountable for the natural gas business unit including the planning, organization and direction of the unit. Unit staff complement of 75 including policy analysis, markets analysis and operations.
- Director Business Analysis – Natural Gas (2001 – 2003): Accountable for natural gas business development and analysis. Specific accountabilities include development of techniques, data bases and economic analysis to ensure the province's natural gas fiscal regime remains competitive and effective.
- Director of Energy Policy for the Government of Newfoundland, 1990 - 1998. Responsibilities included: (a) energy sector planning and monitoring, (b) the analytical and policy assessment of all energy project developments - petroleum, electricity, and alternatives, and (c) the design and negotiation of the Province's royalty systems.
- Financial Analysis – Director, 1987 - 1990. Senior technical economics advisor for the Hibernia financial and benefits negotiations.

SELECTED RECENT TOPICAL REPORTS & ARTICLES

- Report on Africa Fiscal System Performance and Competitiveness – 2017 (Unpublished)
- Review of the Alberta's New Modernized Royalty Framework (Unpublished)
- Oil Sands: SAGD Economics Update - 2016
- *Alberta's Royalty Review – Various Articles – See my Blog @ www.bgrodgers.com*
- *Oil Sands Needs \$100/t Carbon Tax – Submission to the Alberta Climate Change Advisory Panel, Oct., 2015.*
- *Briefing for Government Ministers on the Aug. 2015 Presentation from Canadian Natural Resources Ltd., Sept., 2015.*
- *Duvernay –Declining Costs Enhance Duvernay Shale Economics, Oil and Gas Journal, Sept., 2014.*
- North America Tight Oil Economics Compared:
 - *Part I: Type Wells and Fiscal Competitiveness, Oil and Gas Journal, April, 2013*
 - *Part II: Tight Oil Economics by Play, Oil and Gas Journal, May, 2013*
- Special Reports on Bakken, Eagle Ford, and the Permian Basin, June, 2013

Attachment 1

WORLD RATING OF OIL AND GAS TERMS



The “World Rating of Oil and Gas Terms” is the most up to date, comprehensive and in depth study available to the petroleum industry and governments.

It features the favourability of 650 oil and gas fiscal systems in 156 countries.

Volume 1 - North America Onshore Wells and Shale Plays

Volume 2 - Deep Water Fields

Volume 3 - Arctic Onshore and Offshore Fields

Volume 4 - Shallow Water Fields

Volume 5 - International Onshore and Unconventional Projects

Volume 6 - Executive Summary

Brought to you by Van Meurs Corporation, Rodgers Oil & Gas Consulting and PFC Energy
Volumes are available individually or as a set. For more information about the study visit www.petrocash.com or www.bgroddgers.com

Oil and Gas Fiscal and Economics Courses

Van Meurs Corporation

provides the following open and in-house courses:

- World Fiscal Systems in Oil and Gas
- World Fiscal Systems for Unconventional Oil and Gas
- World Fiscal Systems in Oil and Gas – Advanced Course
- Production Sharing Contracts – Advanced Course

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Website: www.vanmeurs.org

Rodgers Oil & Gas Consulting

provides the following open and in-house courses:

- Applied Petroleum Economics and Policy Analysis

Rodgers Oil & Gas Consulting, Edmonton, Canada

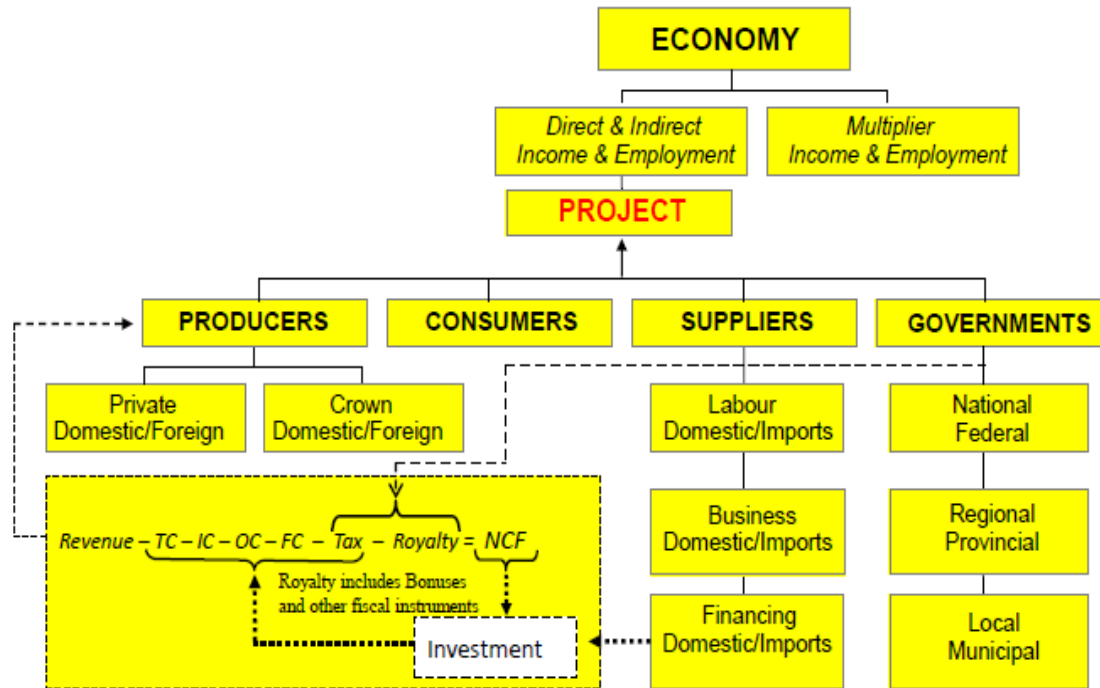
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Attachment 2 – PEET Model Framework

Multi-Stakeholder Economics Assessment Oil & Gas Negotiations & Policy Support



Attachment 3 –Selected Sample Course Comments

“Barry was exceptionally patient and knowledgeable. His command of the subject matter is extraordinary.”

New York, March, 2015

“The Instructor, Mr. Barry Rodgers, is very knowledgeable and open to questions in the class.”

Singapore, September, 2014

“The whole course content was useful and interesting”

Istanbul, July, 2013

Barry has a wealth of international petroleum economics and policy experience. He is a global expert in the interaction between upstream project economics and fiscal system design.

Dr. Pedro Van Meurs, Van Meurs Corp.

Barry’s work as co-producer of the mammoth 6-volume World Fiscal Systems for Oil & Gas (2012) covering 156 countries - over 500 fiscal systems - provides an important global perspective that few possess.

Dr. Wade Locke, Memorial University