



CANADA – A World of Opportunity

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Canadian Global Exploration Forum

What is the Canadian Global Exploration Forum (CGEF)?

- **CGEF** is an industry volunteer organization that promotes cooperation between Canada based, internationally operating energy companies and their international counterparts and governments.
- **CGEF** is a primary Canadian contact point for international energy companies, services, and governments who are visiting Calgary or looking for Canadian investment
- Our members are E&P companies that share Canadian expertise, technology, and opportunities with each other and internationally
- **CGEF** supports a vibrant, Canada based, international energy industry through networking events, conferences and workshops
- www.cgef.org

Why Do Business with Canadian Companies?

- The Canadian energy industry has a long track record of proven expertise in the development and application of the latest technologies for the full spectrum of oil and gas exploration, development and re-development in all types of reservoirs and reservoir fluids
- With the current foreign exchange rate (1 CAD=0.76 USD) the highest standard of operations and services are available at very competitive prices
- Access to both public and private capital markets
- Canadian operators and service companies are actively searching for collaboration with local partners for entry into international oil & gas opportunities

Canadian Public & Private E&P Companies



Past & Present Canadian International Success Stories: Examples

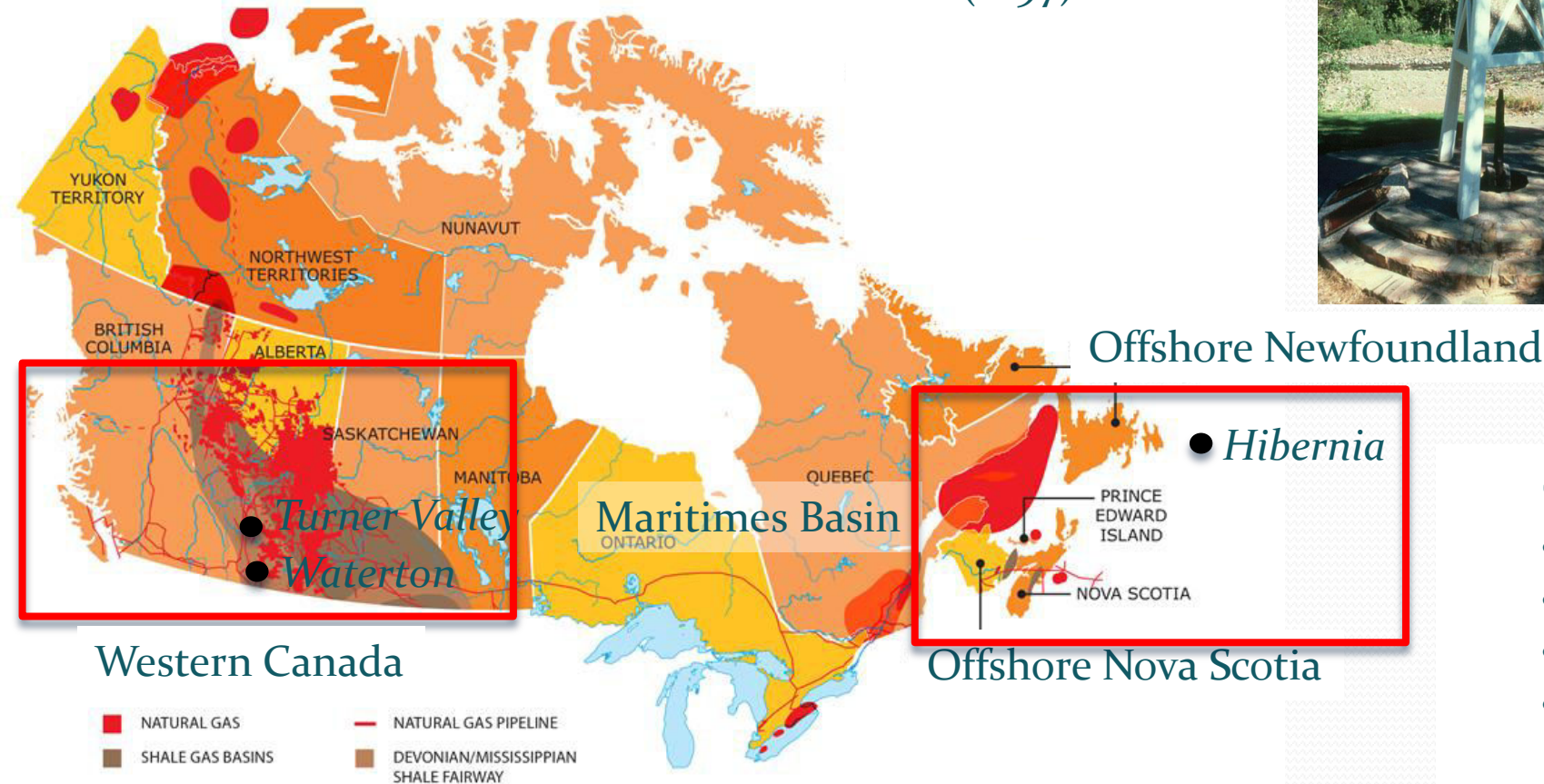


The Canadian Petroleum Industry: Overview

Waterton, AB:
oldest Alberta well
(1897)



Hibernia platform,
East Coast

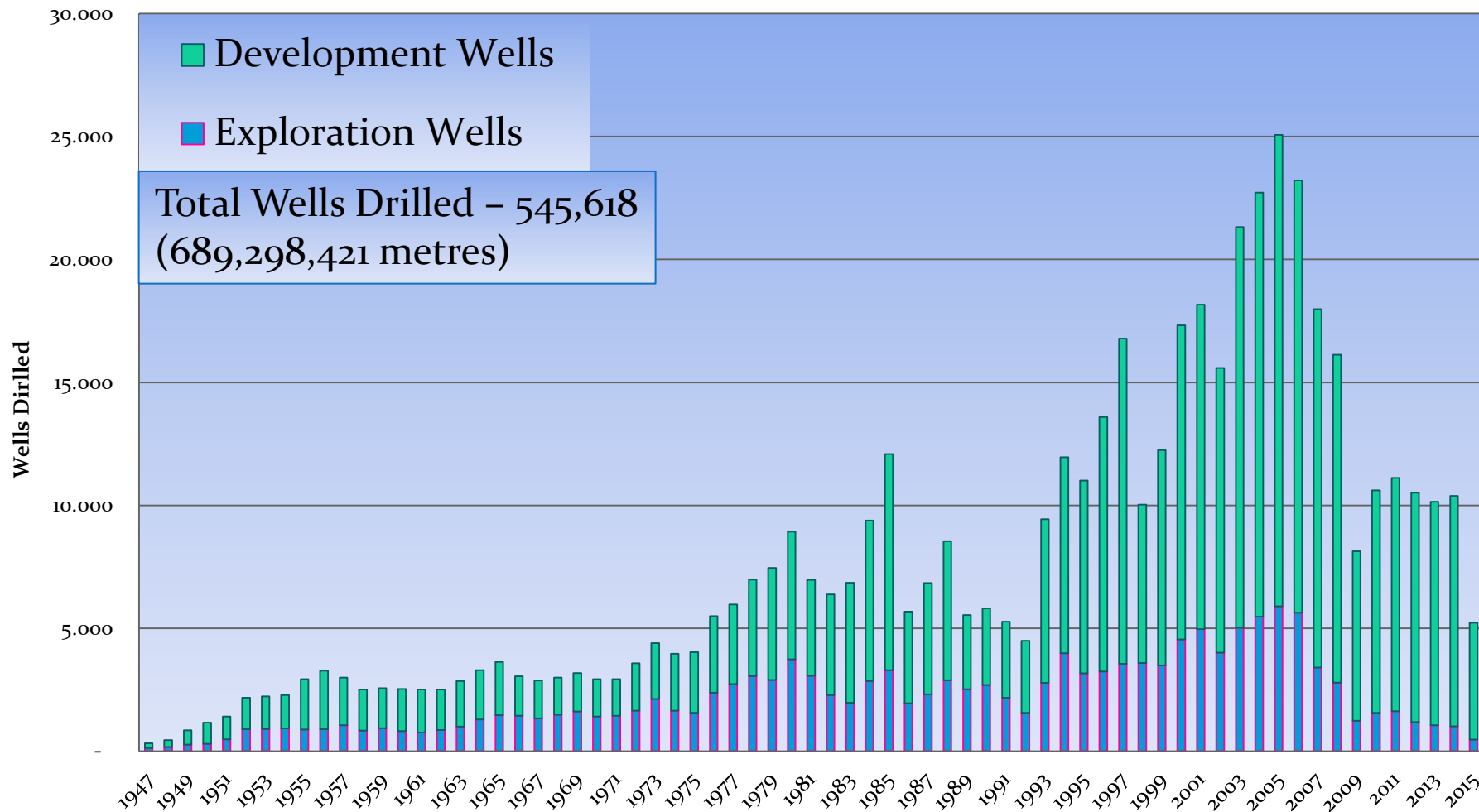


Canada

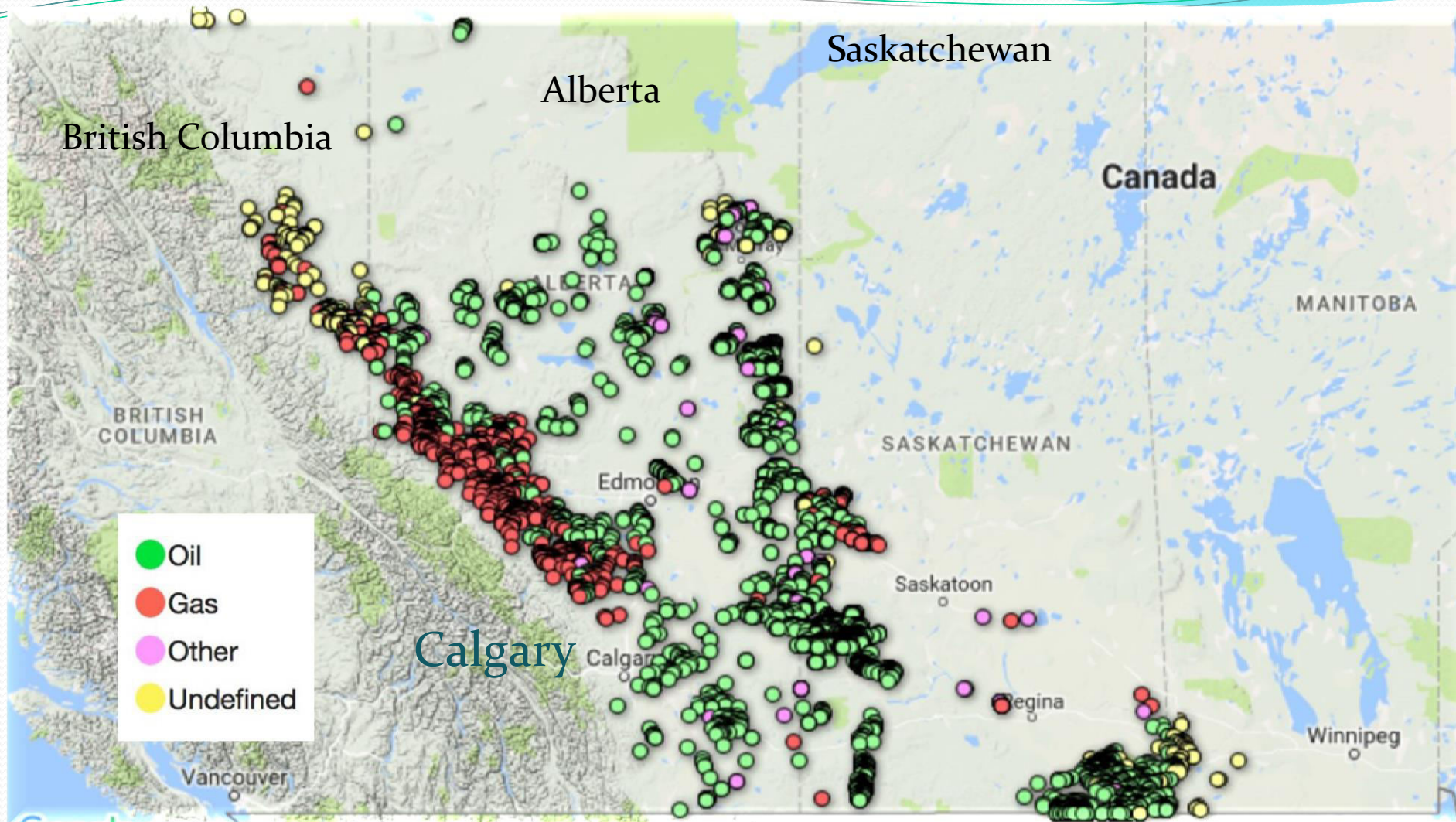
- Third largest natural gas producer
- Fifth largest energy producer
- Sixth largest crude oil producer
- Third in crude oil reserves

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Wells drilled in Canada 1947 to 2015



Well Drilled Western Canada (past year): 9010 wells



Map courtesy boereport.com

Technical Expertise in Exploration, Development, and Production in Conventional Plays

- 120 years of exploration and development in structurally complex settings
- World-class offshore operational expertise in shallow/deep water and hostile environments e.g. Jeanne'D'Arc Basin (Hibernia), Flemish Pass (Statoil discoveries), Scotian Shelf (Sable Island, Panuke)
- Oil and gas developments in both carbonate and sandstone reservoirs
- Long history of well stimulation and innovative drilling, completion and production technologies
- Extensive experience in H₂S-rich gas production and processing
- Wide diversity of wells from 1bbl/d to 1000's bbl/d, 50,000bbl to multi-billion bbl pool size developments

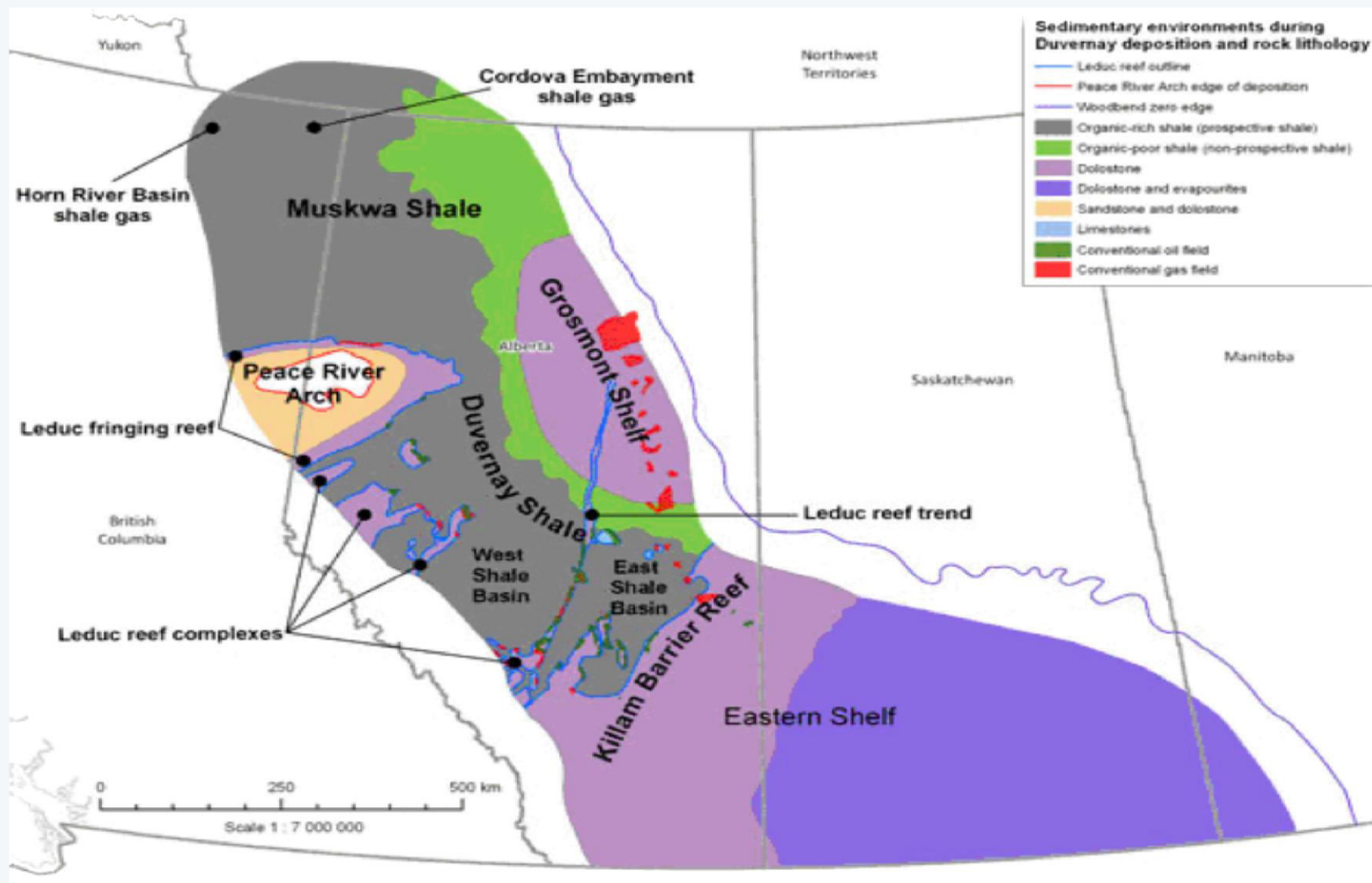
Technical Expertise in Exploration, Development and Production in Unconventional Reservoirs

- Expertise in assessing and exploiting new unconventional plays quickly and efficiently
- Unconventional resource plays (shale gas: Bakken, Montney; shale oil; tight sand oil, CBM)
- Much of the new technologies to develop unconventional reservoirs were invented or enhanced in Canada
- Example: oil sands development:
 - 54,000 mi²
 - 1.7 trillion barrels bitumen in place
 - Ca. 10% **recoverable: 178 billion barrels**

Athabasca river ca. 1900



Shale Development Western Canada



Technical Expertise in Exploration, Development, and Production

Production and Recovery

- Hydraulic fracturing routinely applied for decades
- Over 75% of wells drilled in Canada (2015) were horizontal
- Secondary and tertiary recovery technologies are routinely applied
Waterfloods, immiscible and miscible gas floods with sweet gas, CO₂ or H₂S rich miscible gas flood; alkaline-surfactant-polymer (ASP) flood, SAGD in oilsands, etc.
- Cold Heavy Oil Production with Sand (CHOPS) (Lloydminster)
- All forms of artificial lift in use throughout Canadian oilfields and products exported worldwide

The Petroleum Industry in Canada: Technical Expertise

Government Support: Public Access to Databases

- Unrivalled public database of Western Canadian well data, production data, sample cuttings, and core data by the Government of Alberta
- The Alberta government has an advanced model for organizing data and making them available in the public domain; a similar service is provided by the other provincial energy departments
- The Alberta Energy Regulator routinely consults to foreign governments regarding regulatory issues. They have set up the International Centre of Regulatory Excellence to work with foreign regulators to share Alberta's best practices

Innovation through Research (8 Independent Institutions in AB)

- University of Calgary & University of Alberta received \$150MM federal government funding for research in heavy oil and mature fields
- University of Calgary /UNAM conduct research into Mexican heavy oil, US\$20MM, five years; U of C School of Public policy works with foreign regulators
- Haskayne School of Business works with foreign NOC's
- CanMet division of National Research Council (NRC); Alberta Research Council (ARC)

Doing Business in Canada or with Canadian Companies Abroad

- Canada offers a mature, highly regulated oil & gas industry that is well respected around the world with strong corporate governance and CSR
- The Canadian oil & gas industry offers the full spectrum of services at competitive prices
- Canadian operators and service companies are open for collaboration and the sharing of expertise with the international oil & gas industry
- Special thanks to Michael Padua and Laurent Auger from the Government of Alberta, Economic Development and Trade