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#### Genuine Foreign Parts: The Made-In Canada Large JV Solution?

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#### Part 1

**Background on Unconventional Resource Development** 





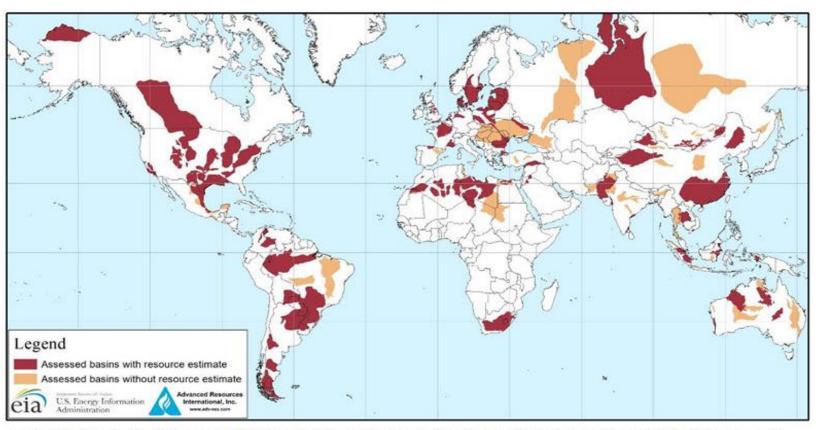
# Top 10 Countries with Technically Recoverable Shale Oil/Gas Resources, According to EIA (6/2013)

Shale Oil	
	Billion Barrels
Russia	75
U.S.	58
China	32
Argentina	27
Libya	26
Australia	18
Venezuela	13
Mexico	13
Pakistan	9
Canada	9

Shale Gas	
	Trillion Cubic Feet
China Argentina Algeria U.S. Canada Mexico Australia	1,115 802 707 665 573 545 437
South Africa Russia Brazil	390 285 245



#### **Unconventional Resource Opportunity is a Global Business**



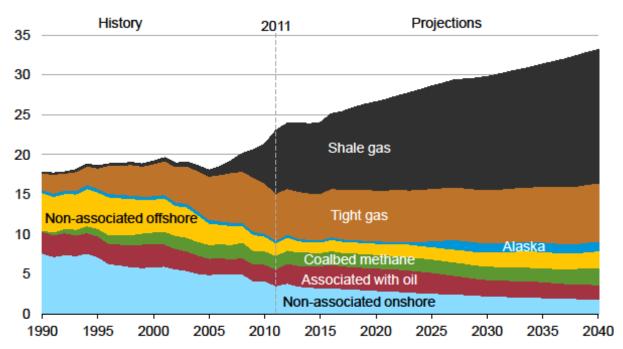
Source: United States basins from U.S. Energy Information Administration and United States Geological Survey; other basins from ARI based on data from various published studies.





## Shale gas leads growth in total gas production through 2040 to reach half of U.S. output

U.S. dry natural gas production trillion cubic feet



Source: EIA. Annual Energy Outlook 2013





#### Part 2

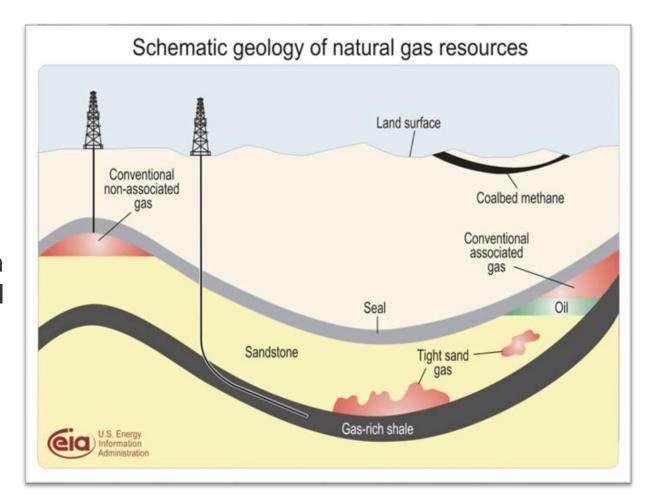
Commercial Differences between Unconventional and Conventional



### Conventional vs Unconventional

## In Unconventional operations:

- No reservoir or accumulation to delineate;
- Don't make a "Discovery" as such
- Identify a geological horizon with hydrocarbon rich shales – "Unconventional Resource"

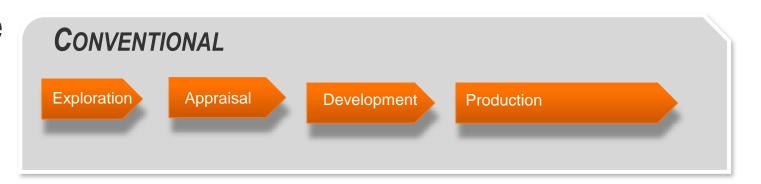


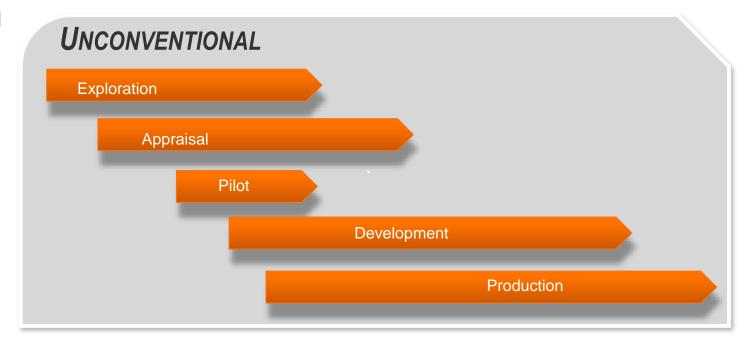




#### Project Profile

- Conventional generally has well defined stages.
- Unconventional less likely to be undertaken in series – different stages can be ongoing & overlapping at any one time









#### Part 3

Philosophical Differences between Small/Conventional and Large/Unconventional Scale JVs



#### **Governance Matters**

#### **Operating Committee:**

- CAPL operates through a consulting obligation and Independent Operations Notices. Large JVs require a more formal structured vehicle for decision making – an Operating Committee
- Controls all Joint Operations
- Approves work programs and budgets
- Creates advisory subcommittees (technical, finance and marketing)



## Work Programs and Budgets

- Address yearly and multi-year work obligations with significant expenditure commitments
- AFE's for information only unless materially different from WP&B (required for \$1MM Joint Account Expenditures)
- Contracts Op Com approves "Contracting Plan"
- Multi-Year Work Programs
- Project AFE level commitments



## **Independent Operations**

- G&G seismic "Test Wells" and Drilling Pads only
- Cash Penalty for seismic and test wells and full forfeiture for non-participation in drilling pad
- Ring-fence by Drilling Pad
- Lower back-in penalty in early phases
- No back-in at all after the pre-development phase



#### **Abandonment Plan**

How do you address abandonment and reclamation?

- Within a given time an Abandonment Plan is required to be adopted
- Creation of an Abandonment Fund
- IFRS Asset Retirement Obligation



#### **Production Facilities**

- Many JOAs do not address most issues dealing with major facilities such as:
  - capacity allocation (for both JV and sole risk participants); and
  - expansion operations
- Major facilities sometimes governed under a separate CO&O (\$150,000,000) – application for PJVA form agreement?



#### Secondment

#### Merger of Operating Capabilities:

- A commercial focal point of the investment for many SOEs
- Maximum number of secondees specified
- Costs included in Budget
- Procedures required to address security, access to data, etc.



### Remedies for Monetary Default

- International standard: Full forfeiture
- Common law/project finance dislike for full forfeiture
- CAPL earn-back right (CAPEX + 400%)
- Dilution (at full or discount value)
- Buy-Out (at full or discount value)
- Consider behavioural incentives driven by choice of remedies



## Transfer and Pre-Emptive Rights

- CAPEX requirement of large scale JVs and freer need to make incremental dispositions?
- Credit importance of 'knowing your partner'
- Limited utility of Rights of First Offer
- Rights of First Refusal: Devaluation? Money where your mouth is?
- Mere consent right: Money where your mouth is?