

# **From the Badlands to the Maritimes**

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# The Badlands

## The Bakken Formation

## A Phantom Resource



### I. The Badlands

- From the French, mauvais terres a traverser (bad lands to cross) in Western North Dakota
- A "phantom resource" geologists had known for years of the Bakken formation but only in the 21st century was it considered recoverable.

# Transporting the Product

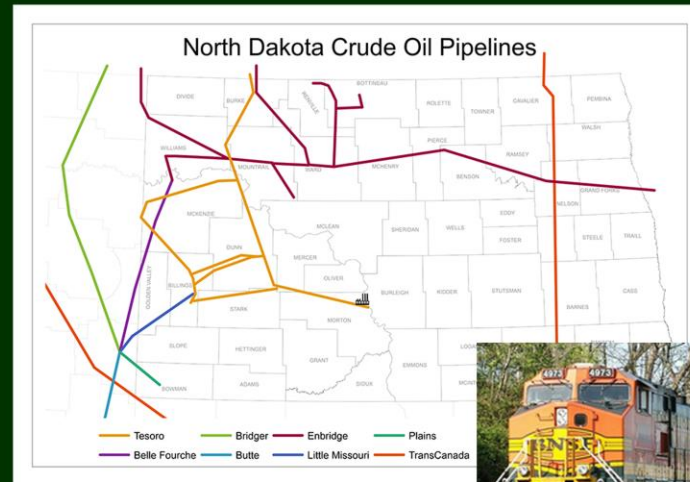
Railroads

Pipelines

Above ground

Underground

Other means



## II. Transporting the Product

- Full of environmental peril no matter how you do it
- No pipeline in place--one would have to be constructed
- The railroad is right there and ready to go
- Impractical to ship by truck and nowhere near navigable rivers for barges.

# The Destinations

**U. S. Refineries**

**The Maritimes**

**Overseas**

## III. The Destinations

- US Refineries in the midwest and South
- Canada--the Atlantic provinces (largely controlled by Irving Oil)
- Overseas--final destination for US and Canadian oil

# The Carriers

**BNSF**



**Canadian Pacific**

**Canadian National**

**Montreal, Maine &  
Atlantic**



## IV. The Carriers

- BNSF--both the ex-Northern Pacific and ex-Great Northern lines in North Dakota
- Canadian Pacific--took over the Soo Line trackage in North Dakota
- Canadian National--interchanges with ND traffic at Portal and Winnipeg
- Montreal Maine and Atlantic, former CP line , then Rail World (Ed Burkhardt)

# The Siege of Lac-Megantic

**One-man Crew**

**Train left  
unattended**

**Fire**

**Casualties**



## V. The Siege of Lac-Megantic, Quebec

- Although most trains have an engineer and conductor, MM&A had a lone wolf in the cab
- Engineer left, train left unattended on the main line.
- Town set on fire, over 40 dead, many more injured.

# Aftermath

**Mr. Ed goes to Lac-Megantic**

**End of the MM&A**

**Response of Canada and the US governments**

**Emergence of Central Maine & Quebec**

## VI. Aftermath

- Ed Burkhardt, who spoke no French, arrives at scene of the disaster
- Attacked by politicians and press of both nations
- End of the MMA--lost operating rights and discharged in bankruptcy
- Repercussions against MM&A
- Responses, both regulatory and criminal in Canada, less so in the US
- USDOT calls for minimum crew size, probes safety of old tank cars
- A new carrier with new ownership---Central Maine & Quebec