

North Dakota Pipeline Authority House Energy and Natural Resources Committee January 11, 2013

Crude Oil

Understanding production potential

Understanding current transportation dynamics and potential transportation constraints

Understanding current and future market conditions

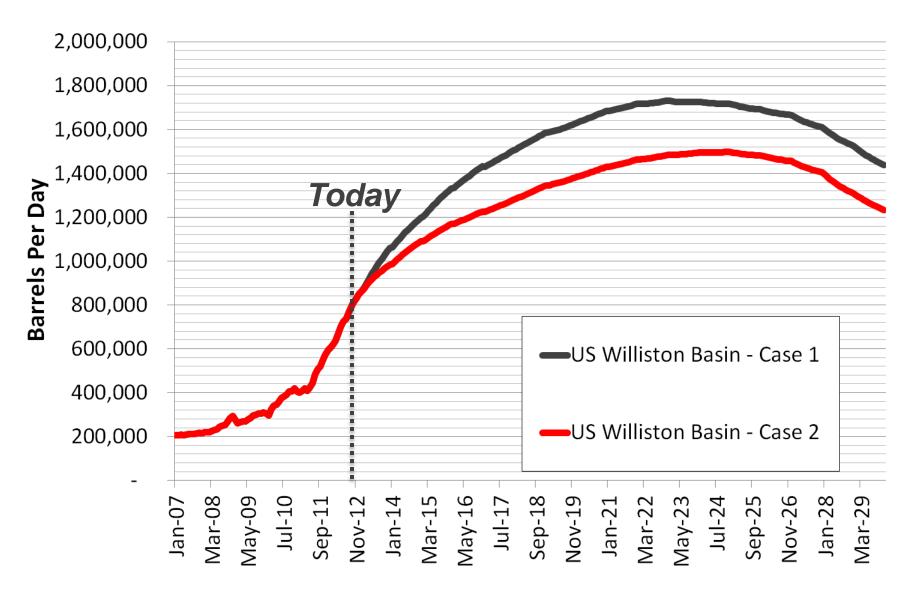
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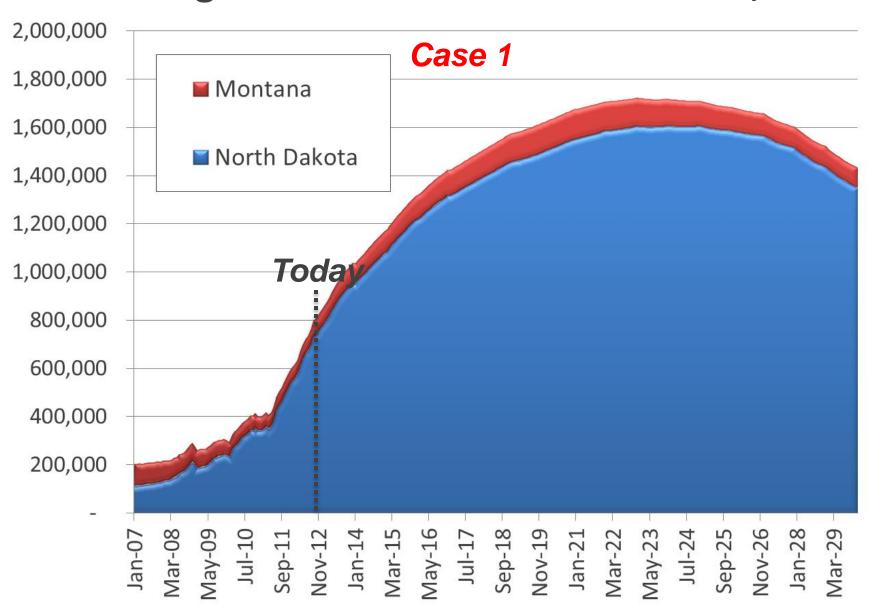
Understanding current and future market conditions

Forecasting Williston Basin Oil Production, BOPD



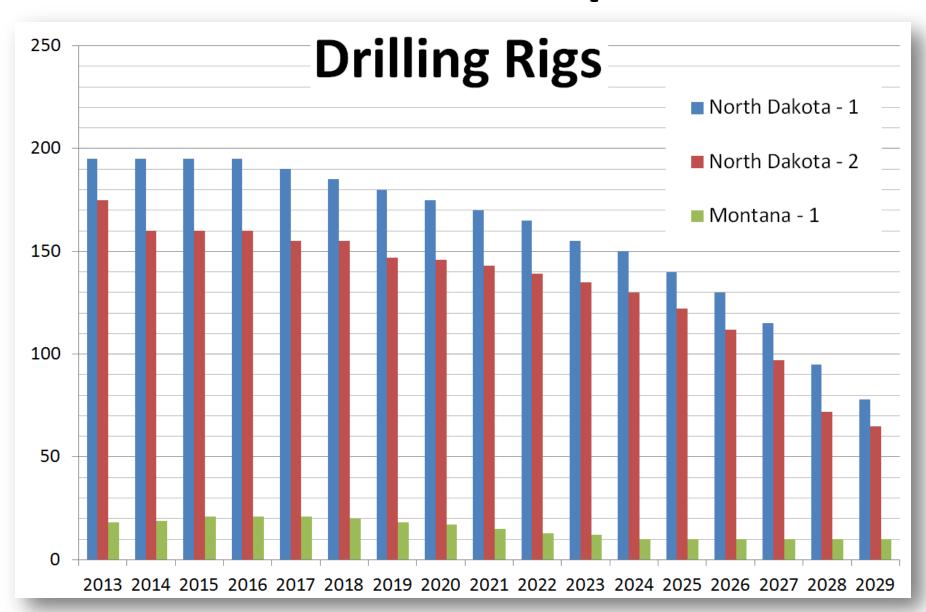
Production forecast is for visual demonstration purposes only and should not be considered accurate for any near or long term planning.

Forecasting Williston Basin Oil Production, BOPD

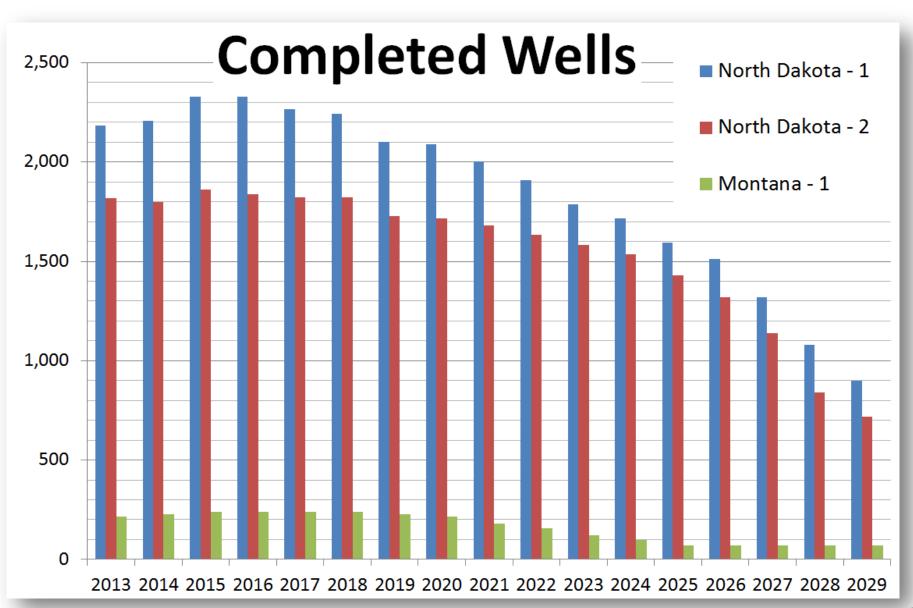


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Forecast Assumptions



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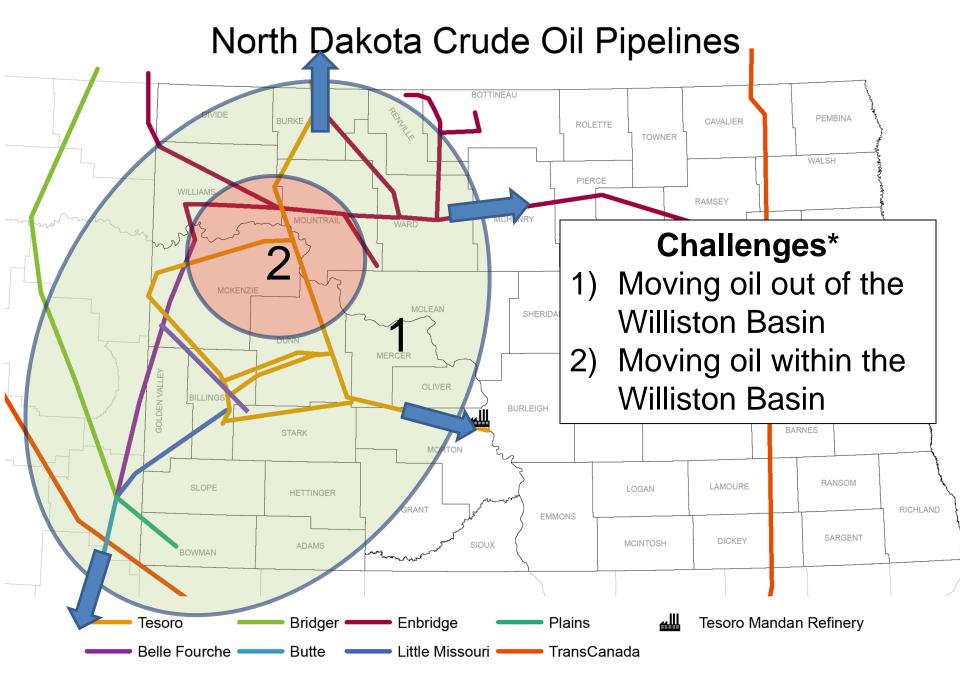


Crude Oil

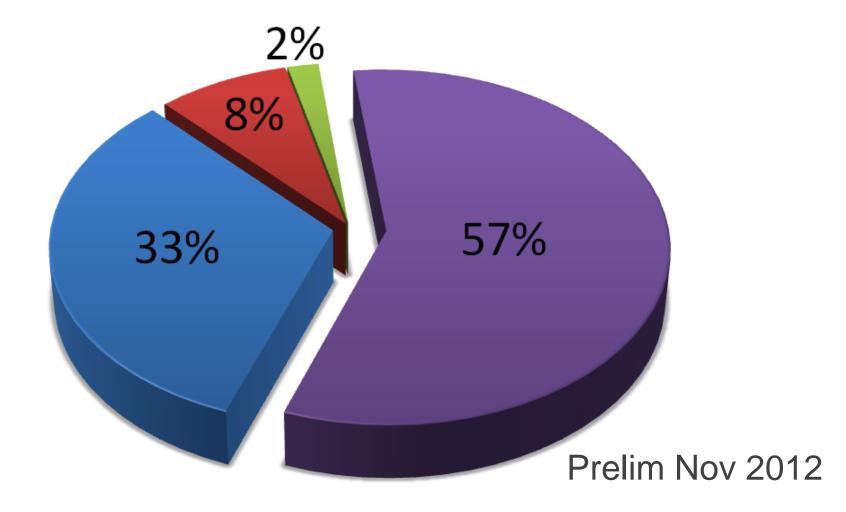
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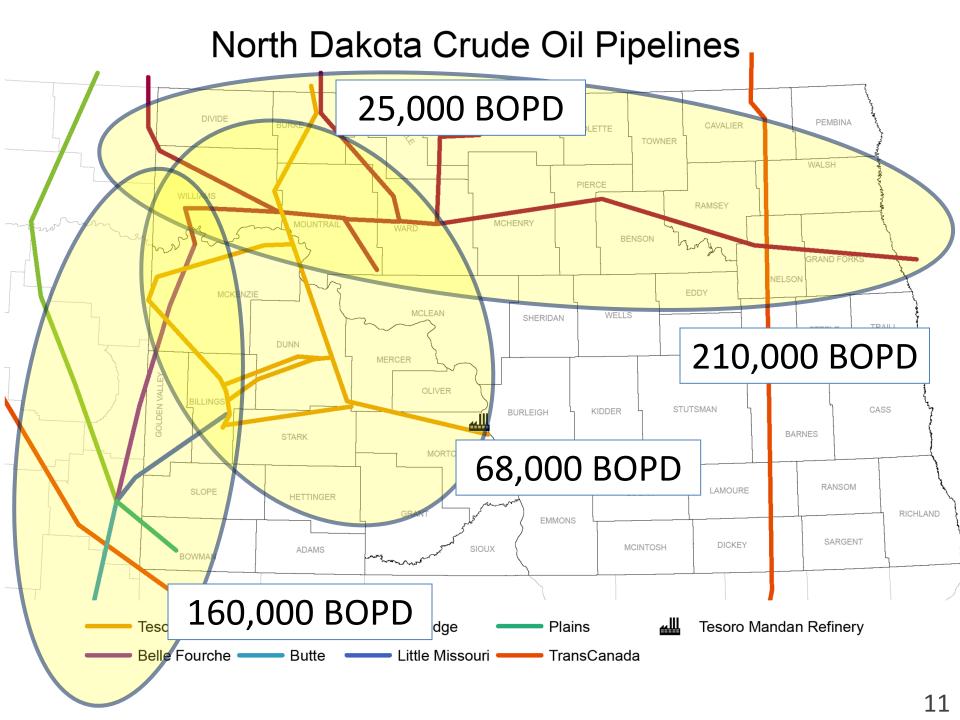


Williston Basin Oil Transportation

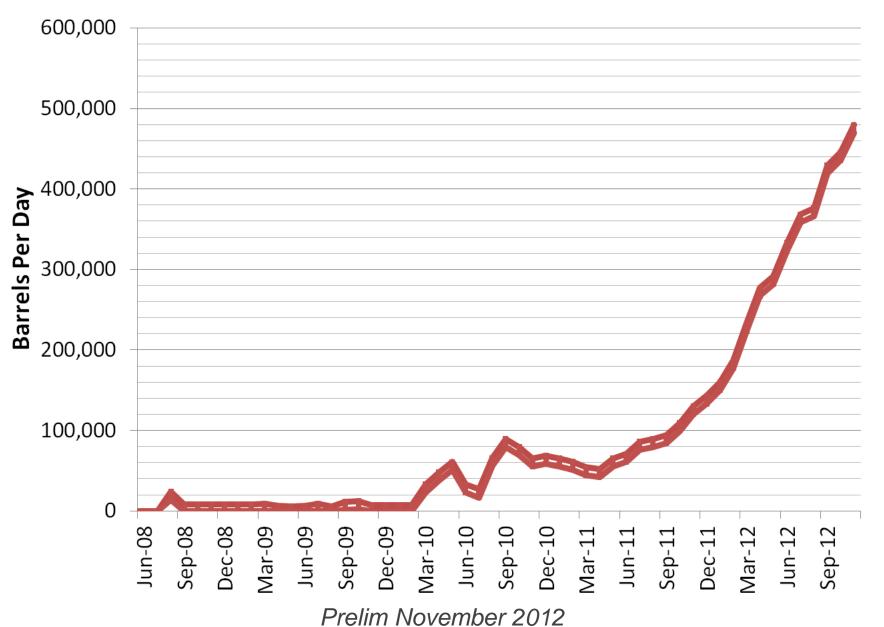


■ Pipeline Export

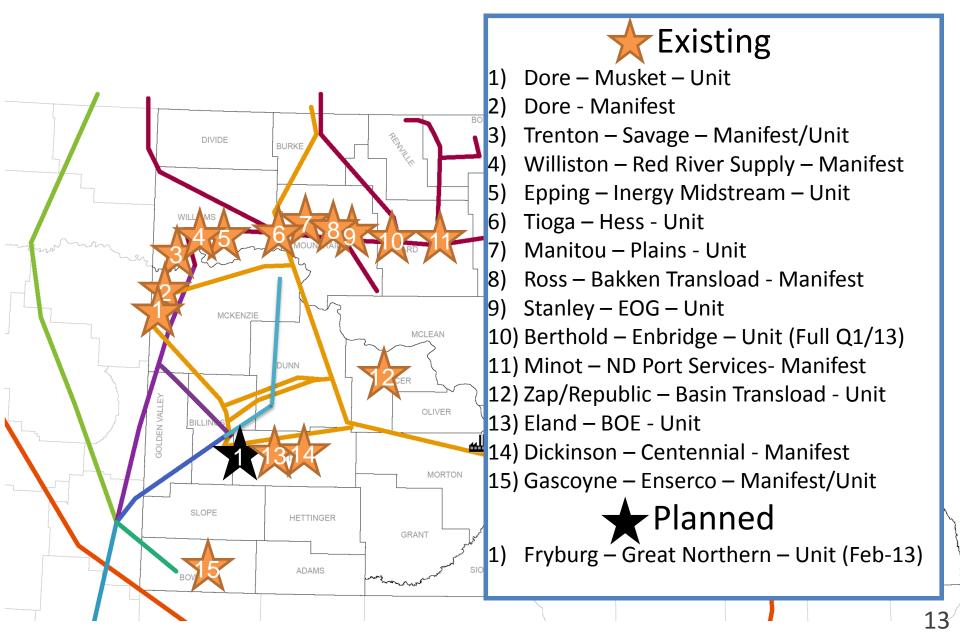
- Tesoro Refinery
- Truck to Canadian Pipelines
 Estimated Rail



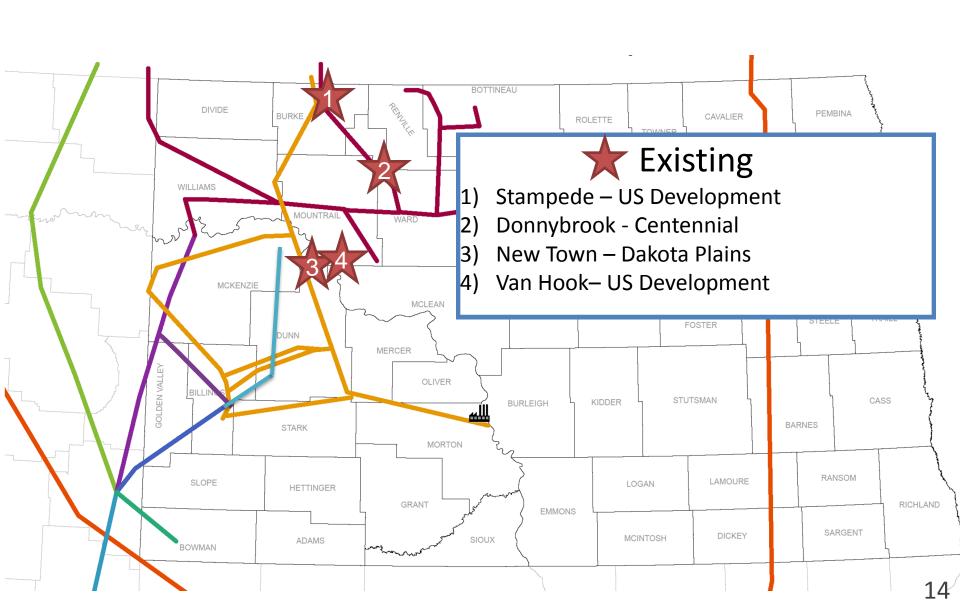
Estimated ND Rail Export Volumes



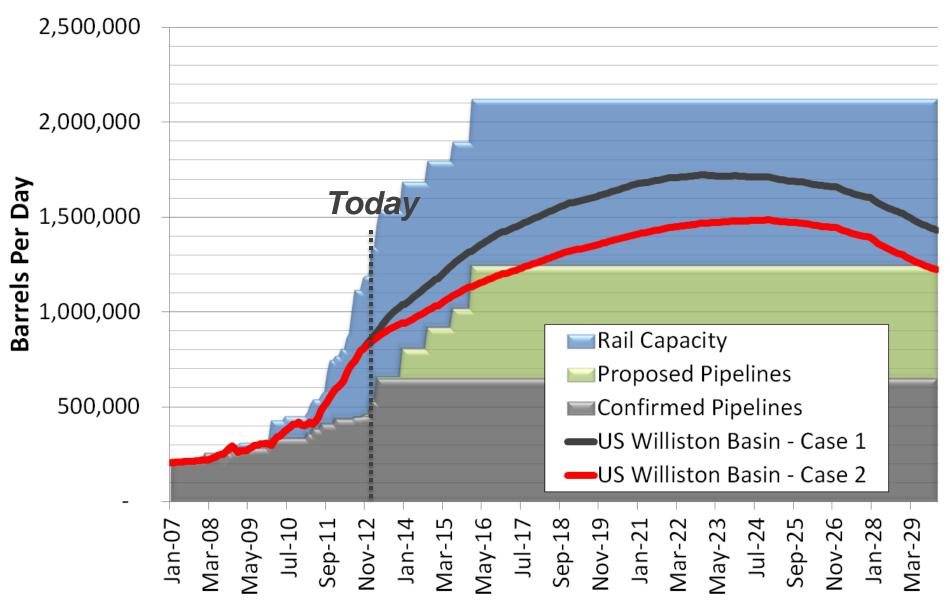
BNSF Crude Rail Locations



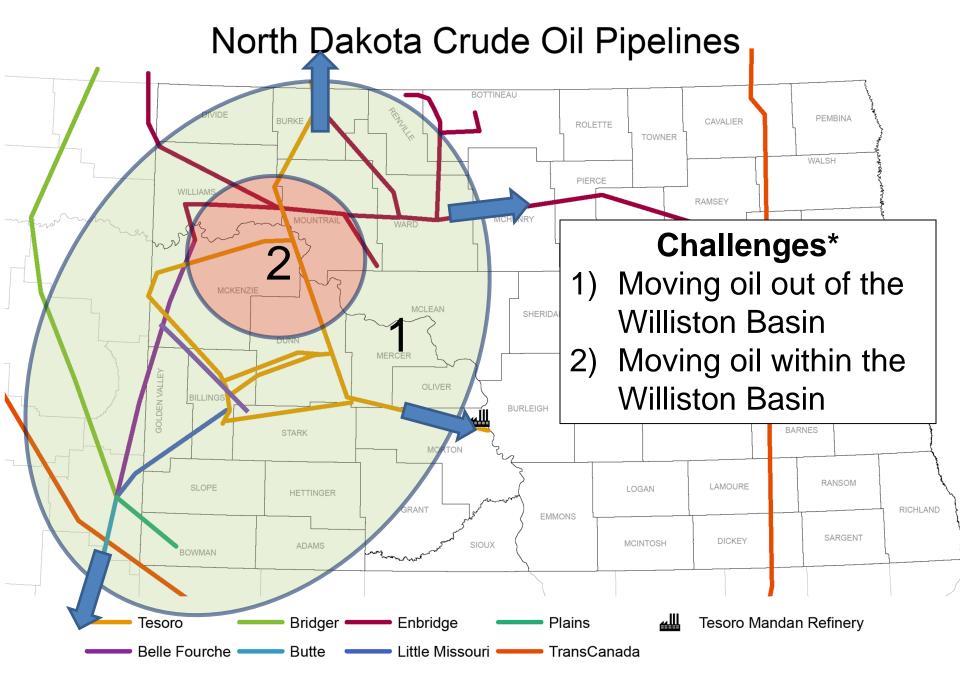
CP Crude Rail Locations

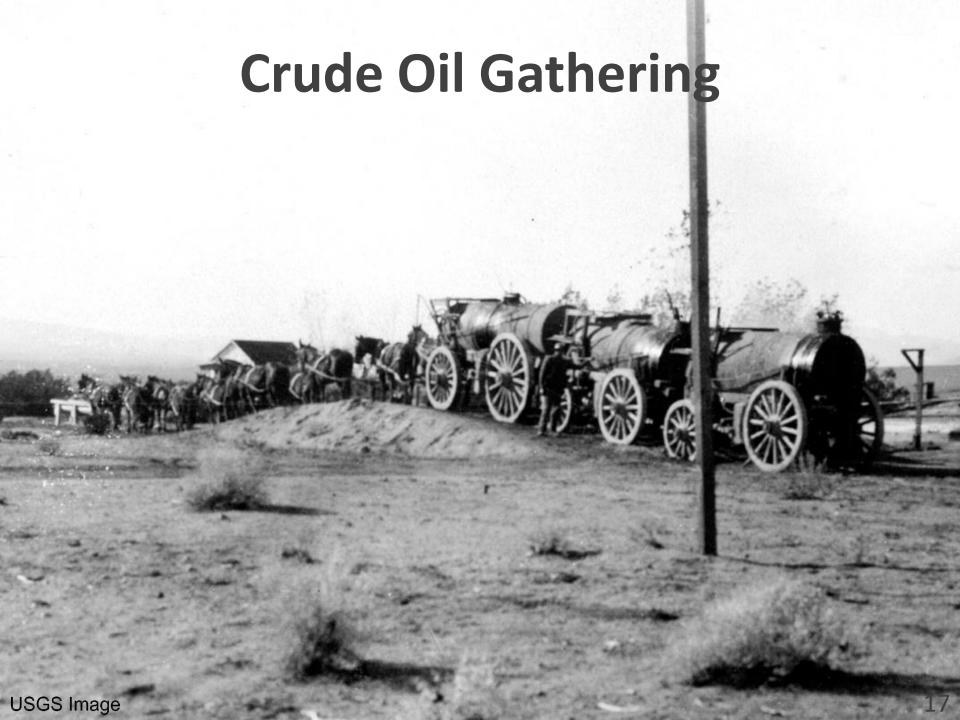


Williston Basin Oil Production & Export Capacity, BOPD

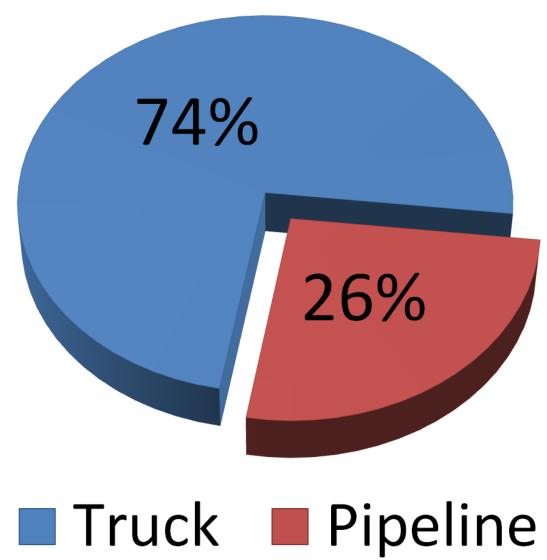


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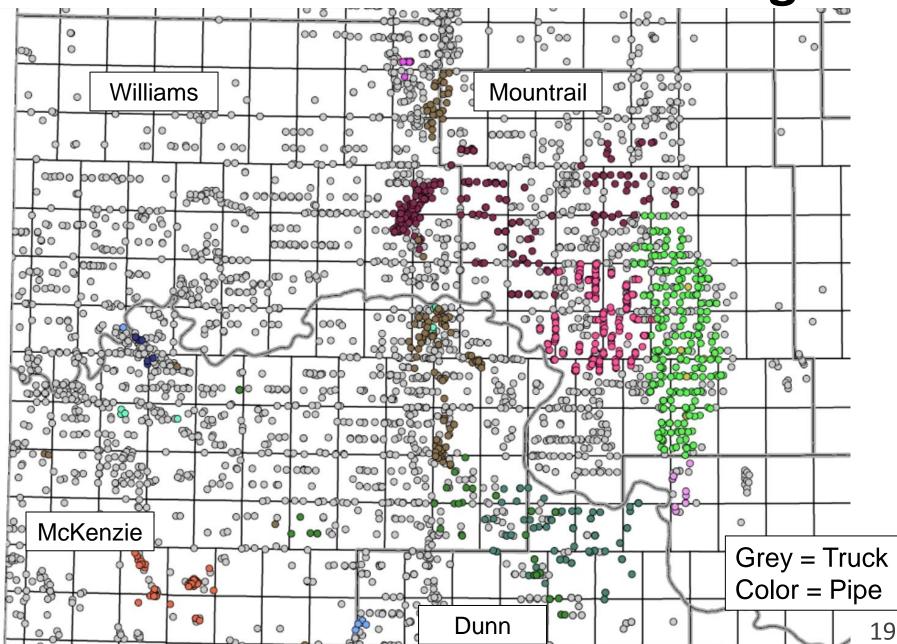


North Dakota Crude Gathering



February 2012 Data

North Dakota Crude Gathering



North Dakota Crude Gathering 0 Williams Mountrail 0 45% 55% 000000 0 omo 00000 95% രത്ത 0 000 0 000 യാഠ Pie Charts Truck = Red Pipeline = Blue 89% McKenzie 78% Dunn 20

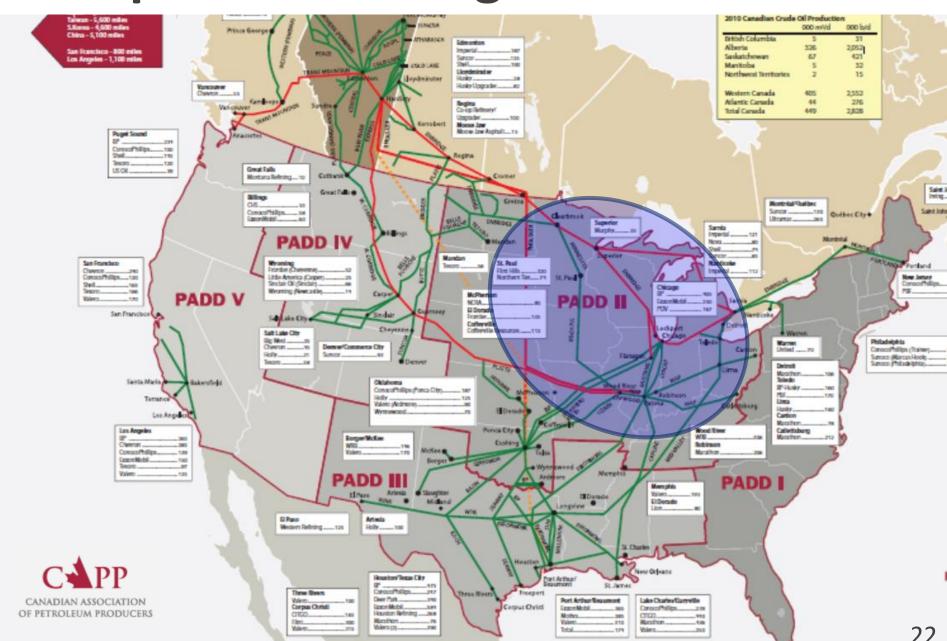
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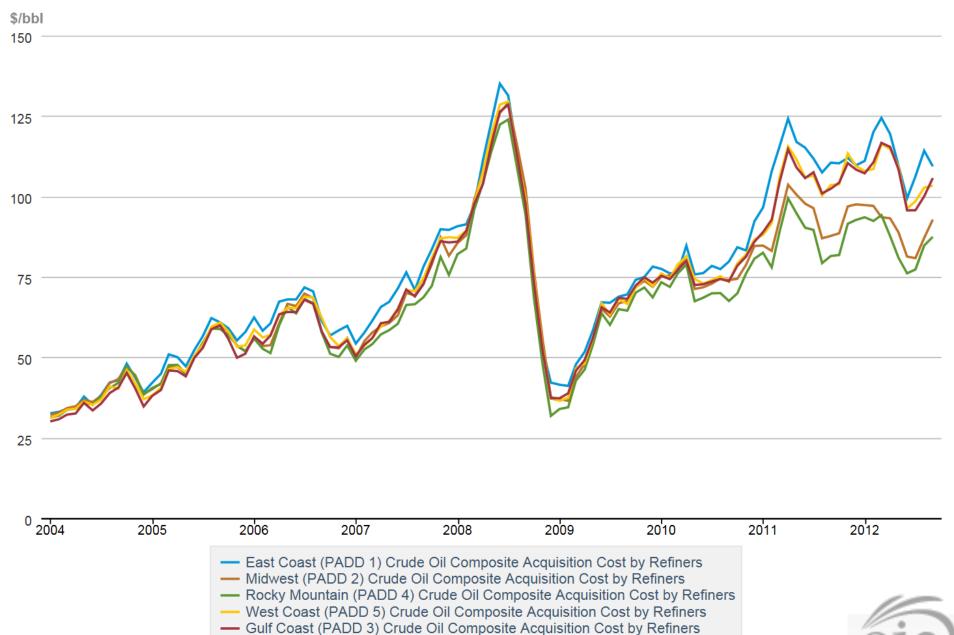
Understanding current and future market conditions

Pipeline Challenges Outside ND

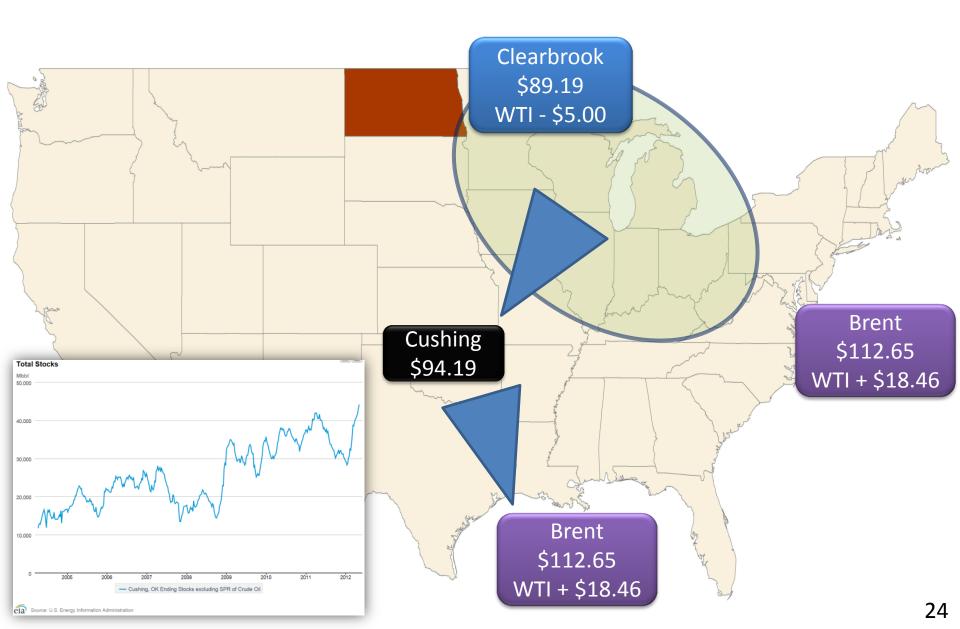




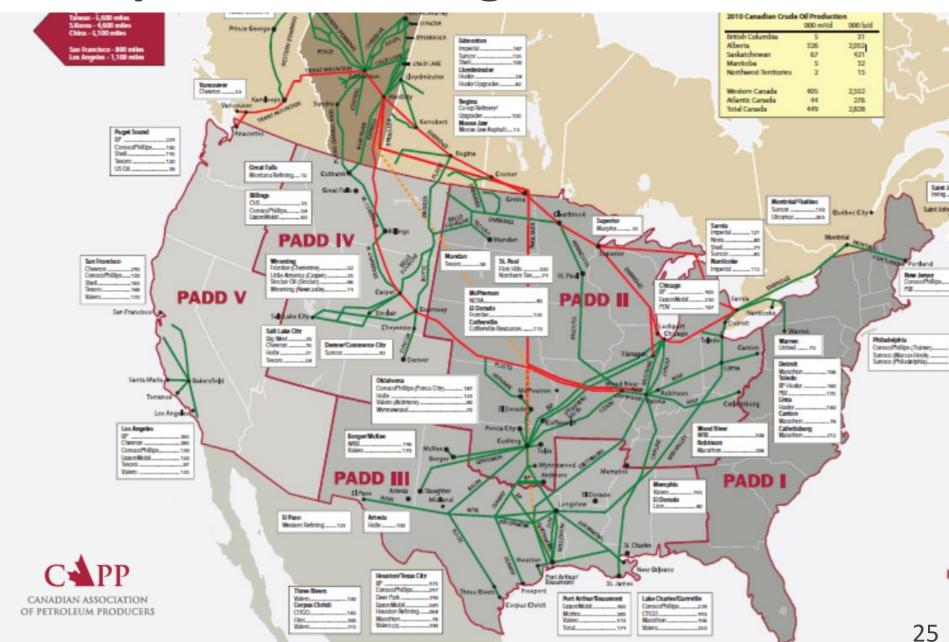




Crude Oil Prices – January 10, 2013



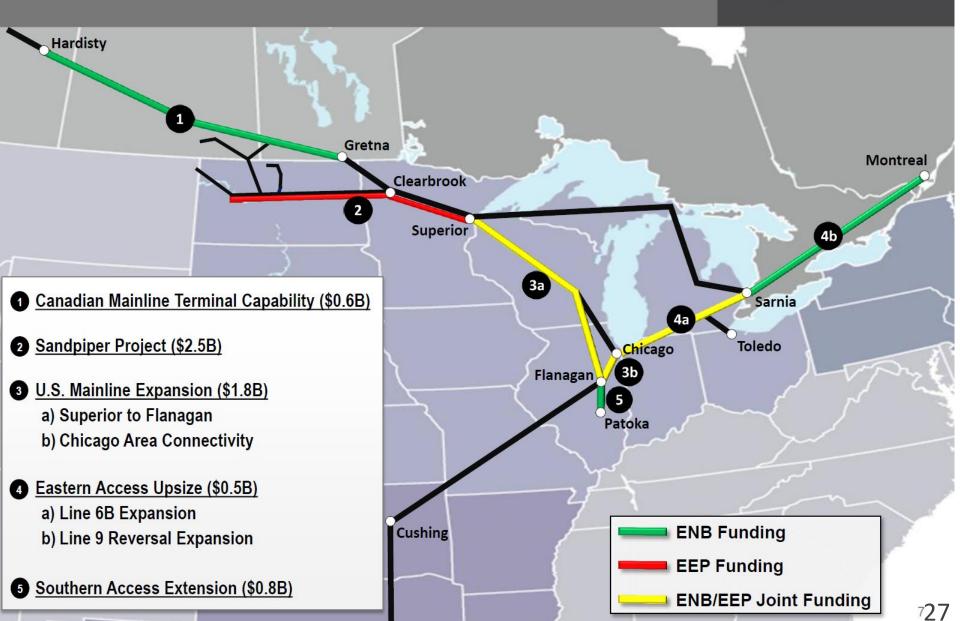
Pipeline Challenges Outside ND



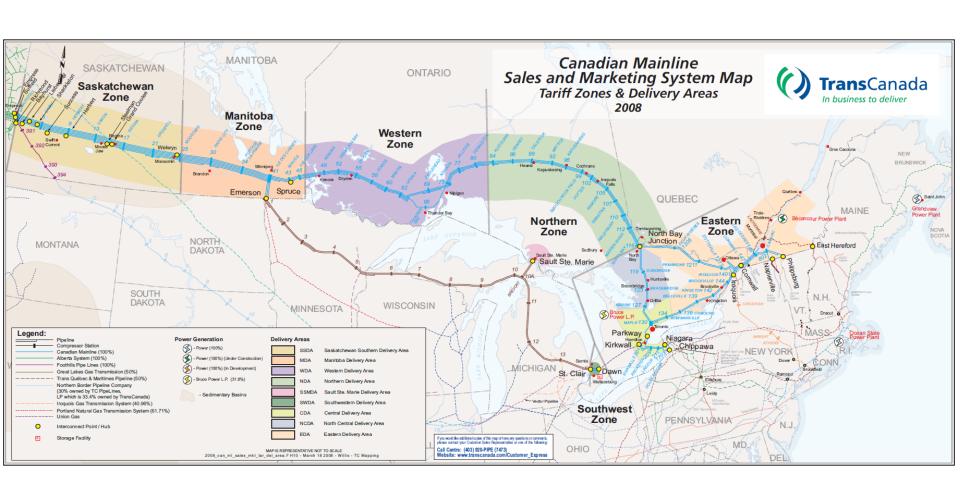
Developing Projects to Watch...

\$6.2 Billion – Light Oil Market Access





TransCanada Mainline Conversion



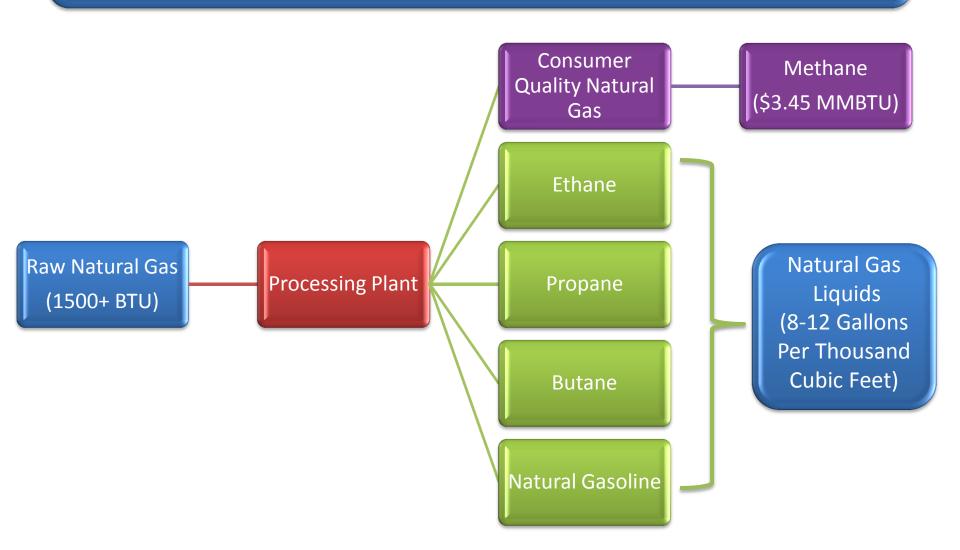


Top Two Natural Gas Misconceptions

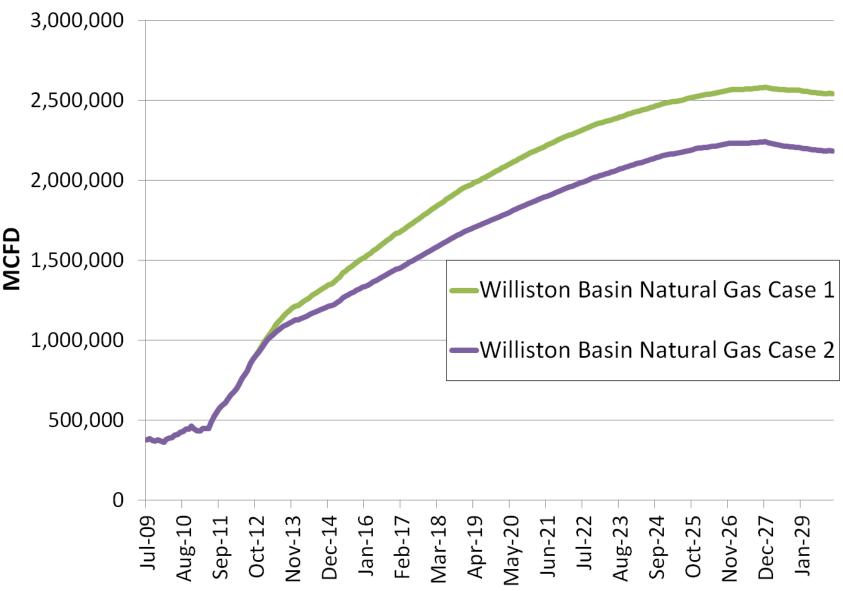
"Natural gas is just a byproduct of oil production with very little economic value."

"Nothing is being done to address natural gas flaring in western North Dakota."

Rich Bakken Natural Gas

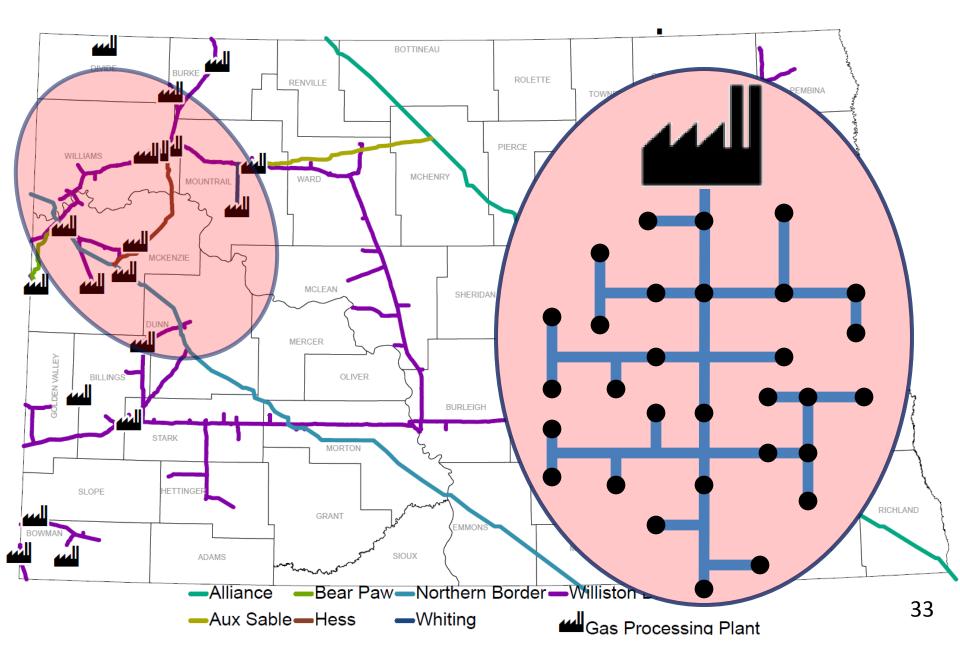


Williston Basin Gas Production

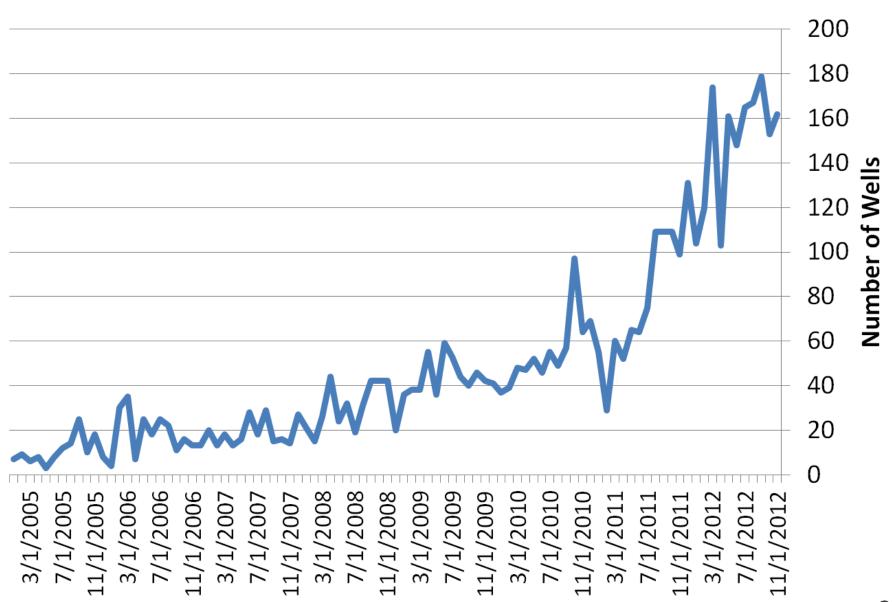


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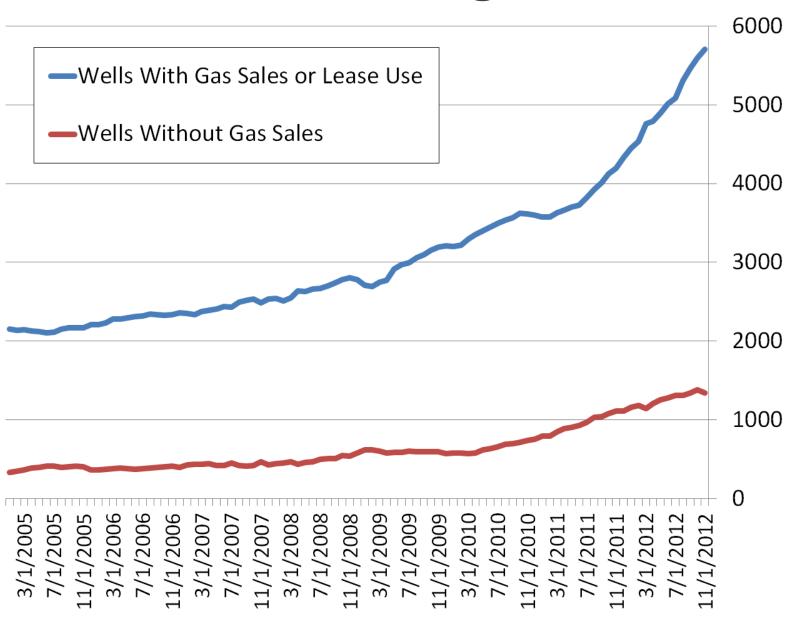
Natural Gas Gathering Challenge



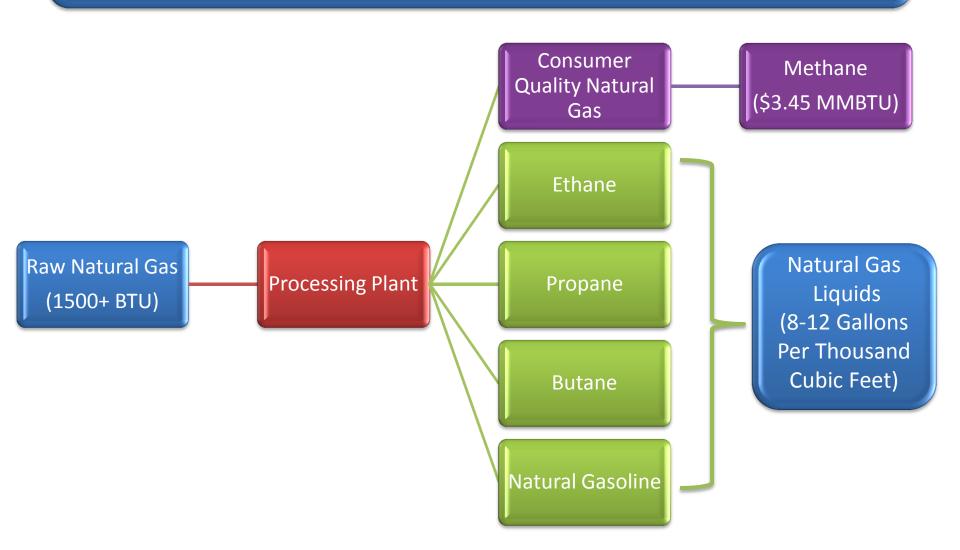
First Time Gas Sales Per Month



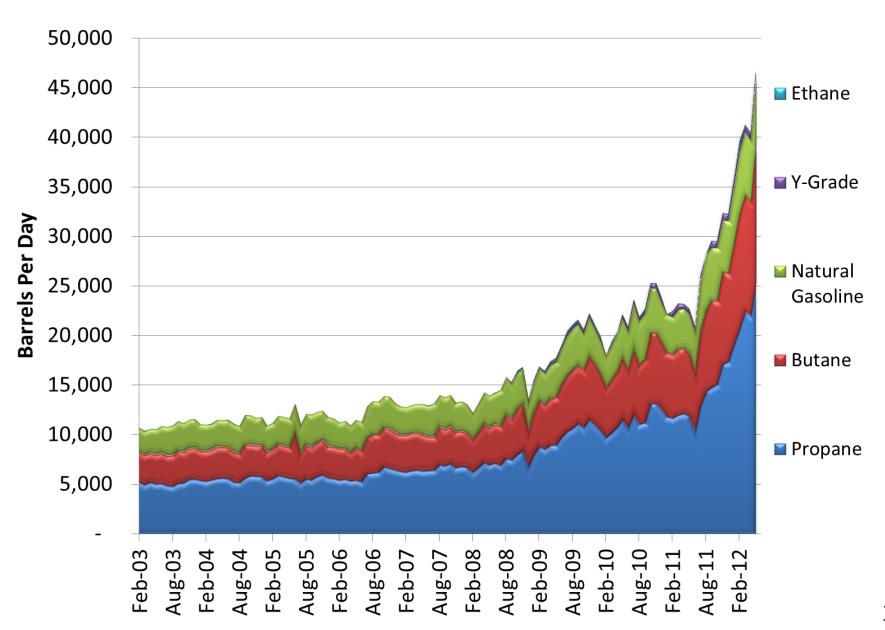
ND Gas Gathering Statistics



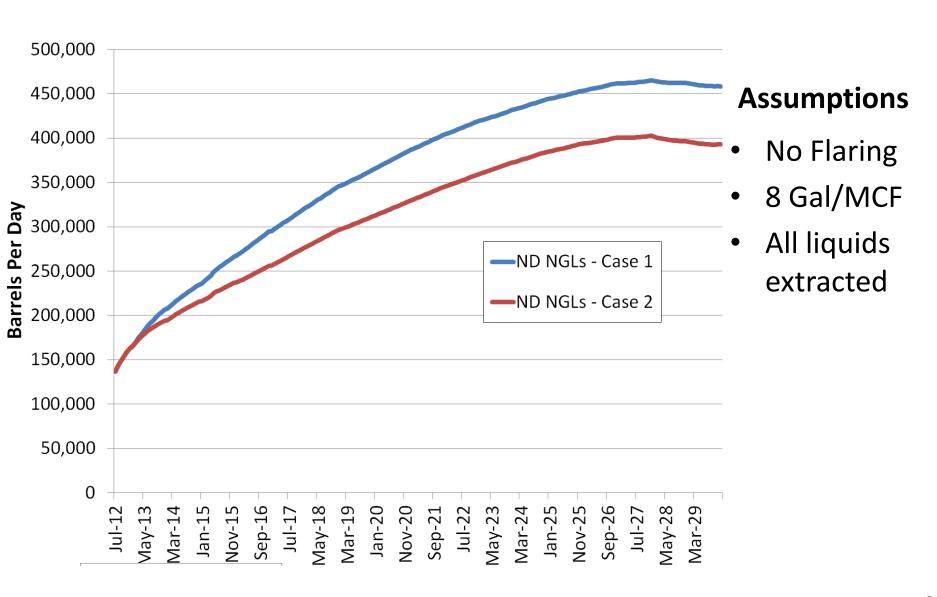
Rich Bakken Natural Gas



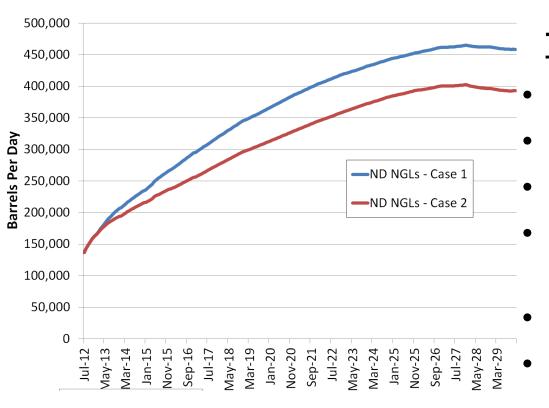
ND Gas Plant NGL Production



North Dakota NGL Potential



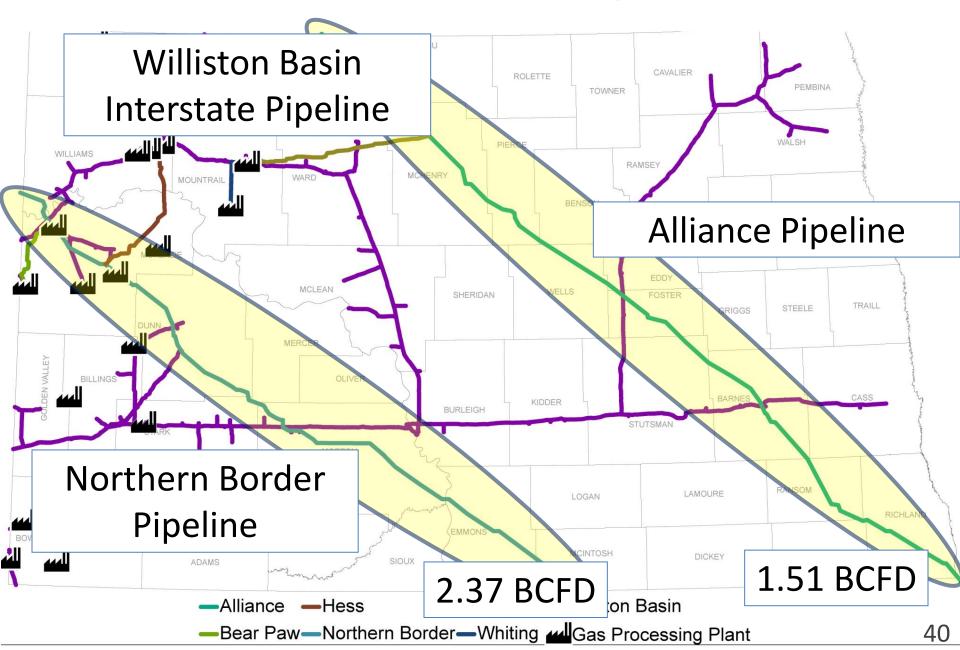
Moving Future NGL Volumes



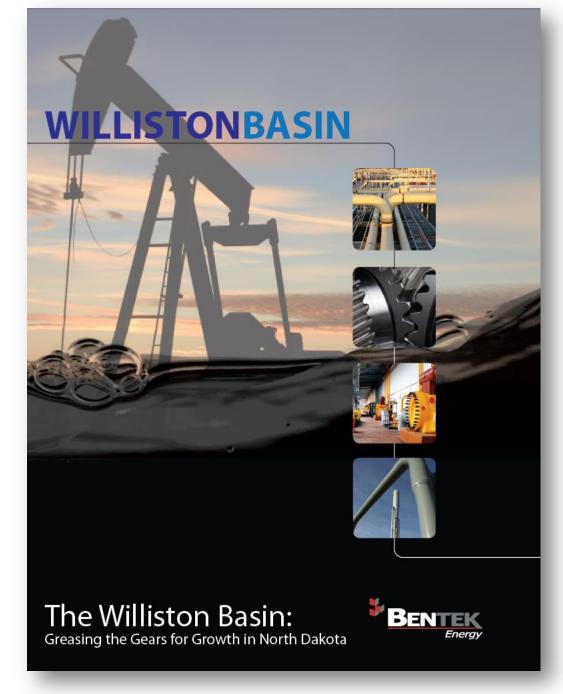
Transportation Options

- Trucking Regionally
- Rail Transportation
- Vantage Pipeline (Ethane)
- ONEOK Bakken Pipeline (Y-Grade)
- Alliance Pipeline (Rich Gas)
- New Pipeline Infrastructure??

ND Natural Gas Pipelines

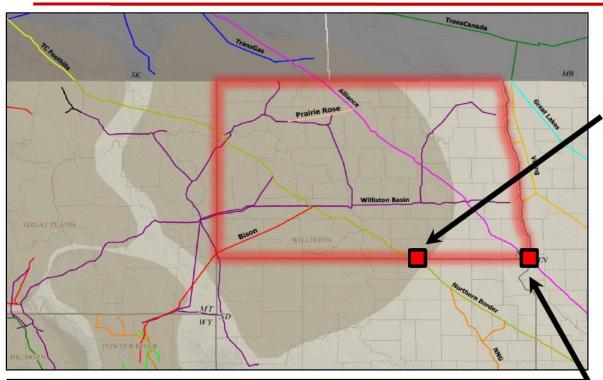


Natural Gas Study

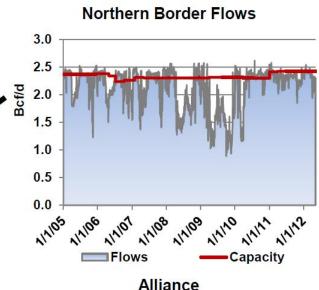


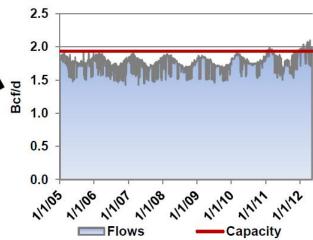


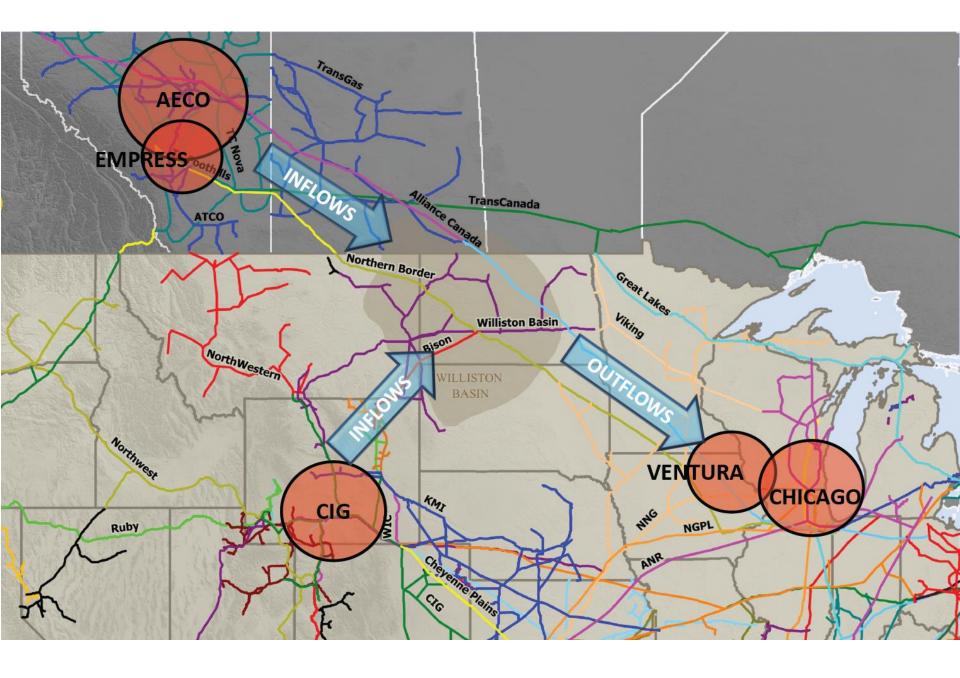
Open Capacity Leaving N. Dakota Is Tight



- Northern Border and Alliance Serve As the Primary Routes to Transport Gas From the Region.
- Each Have Limited Open Mainline Capacity to Carry Additional Williston Supply.







Source: BENTEK Energy July 2012 Report

Contact Information

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