

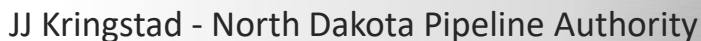


November 2020 Monthly Update  
North Dakota Pipeline Authority  
Justin J. Kringstad  
November 17, 2020

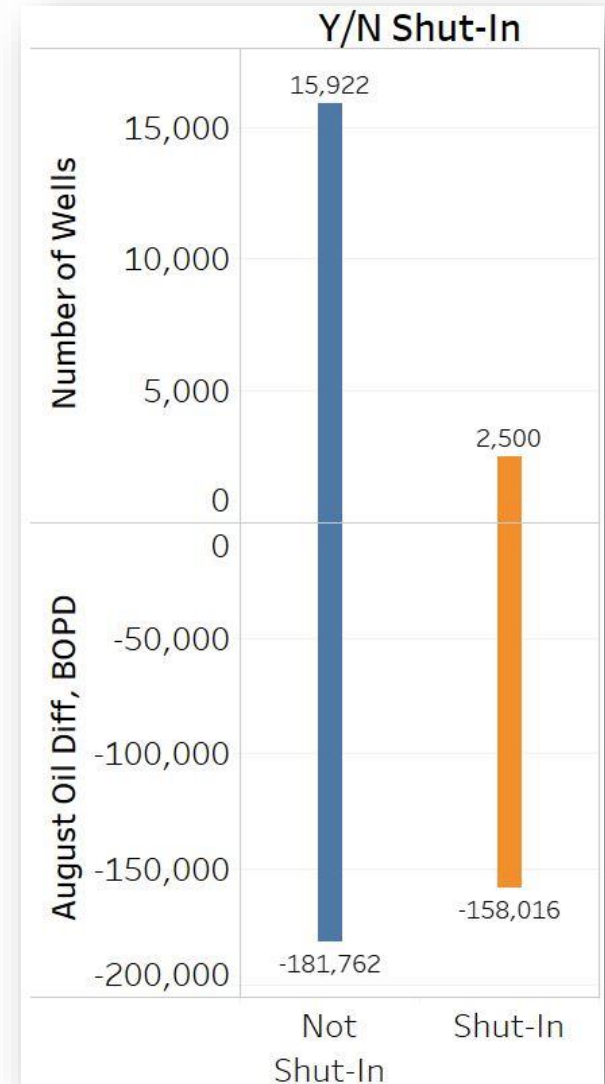
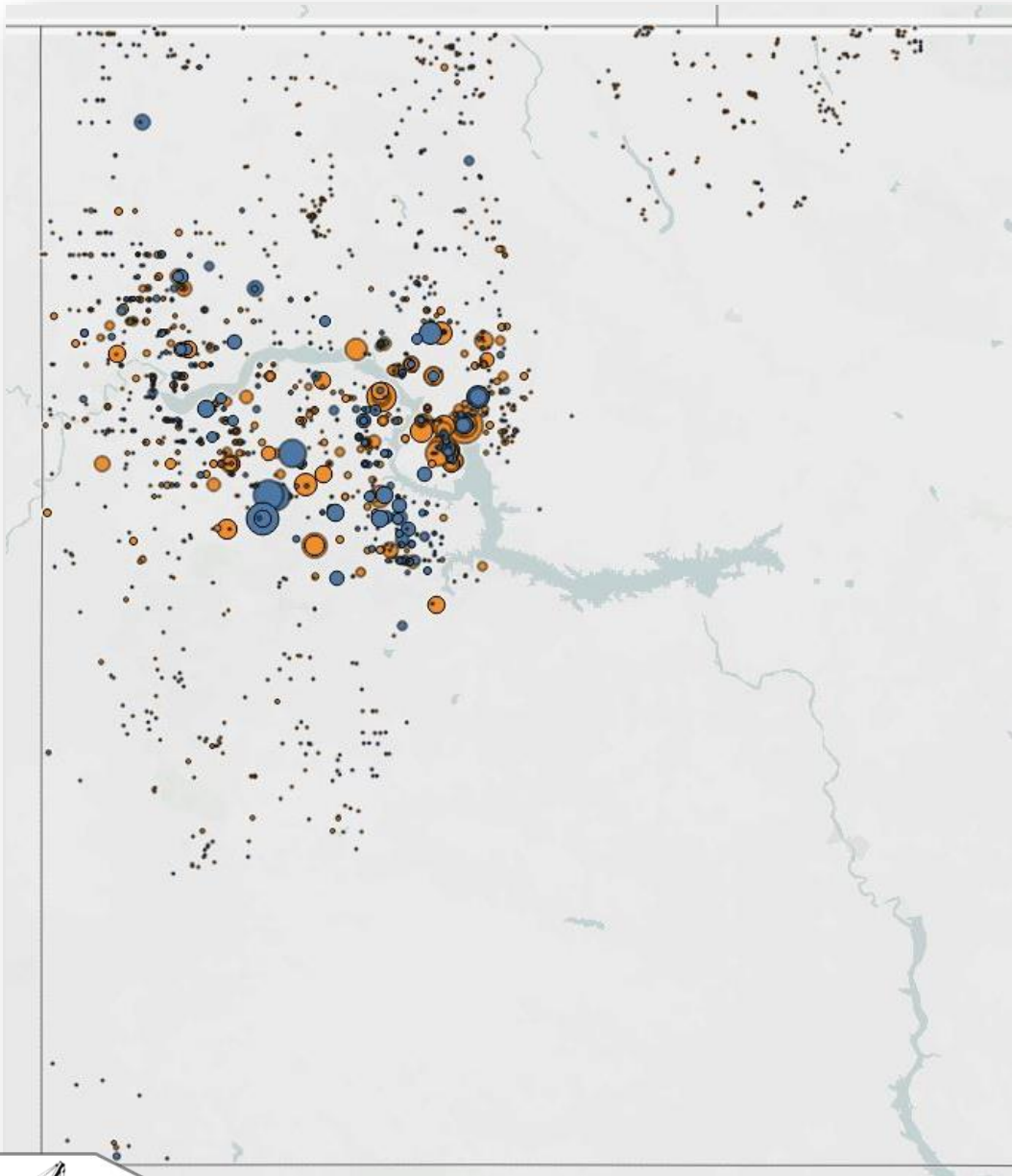
# US Williston Basin Oil Production - 2020

MONTH	ND	Eastern MT*	SD	TOTAL
January	1,430,614	57,426	3,091	1,491,131
February	1,504,856	55,396	3,070	1,563,322
March	1,432,756	57,695	2,946	1,493,397
April	1,222,940	49,023	2,610	1,274,573
May	860,142	37,012	2,466	899,620
June	893,738	42,726	2,680	939,144
July	1,042,081	48,296	3,435	1,093,812
August	1,165,371	46,783	2,807	1,214,960
September	1,221,667			
October				
November				
December				



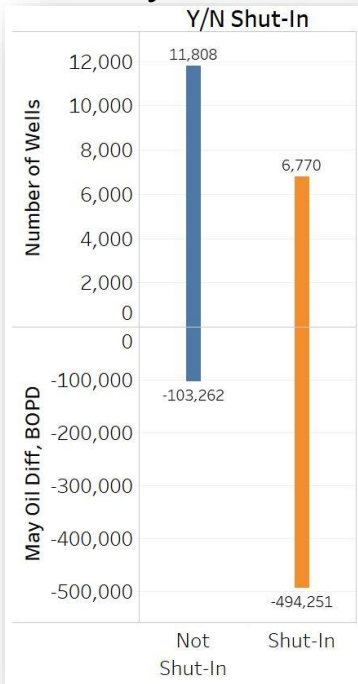


# Mar. to Sep. 75+% M-O-M Oil Drop

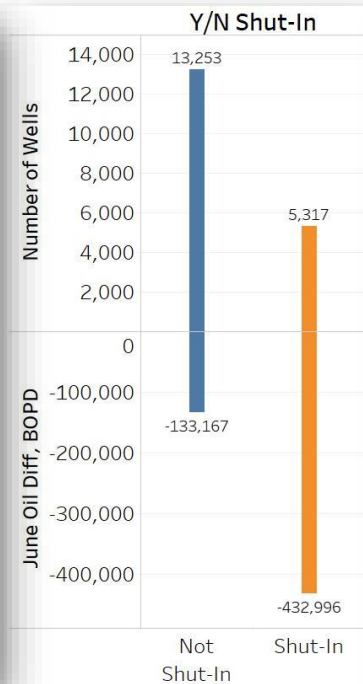


# May to September Shut-In Comparison

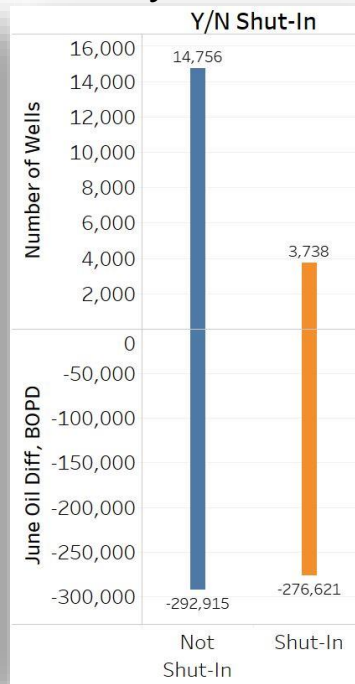
May 2020



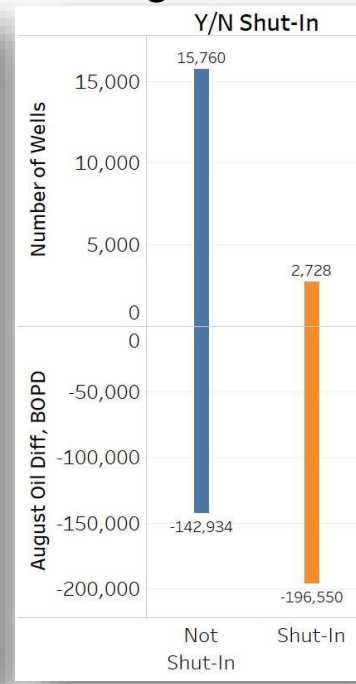
June 2020



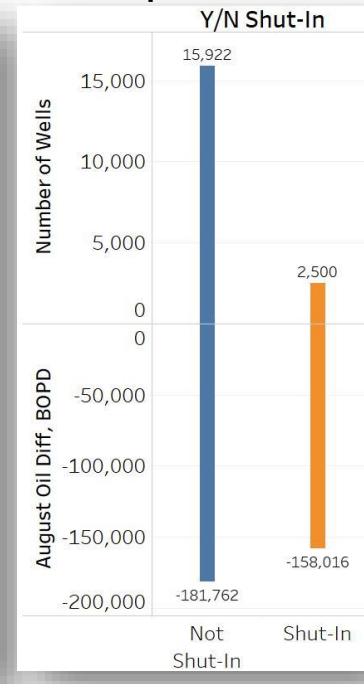
July 2020



Aug. 2020

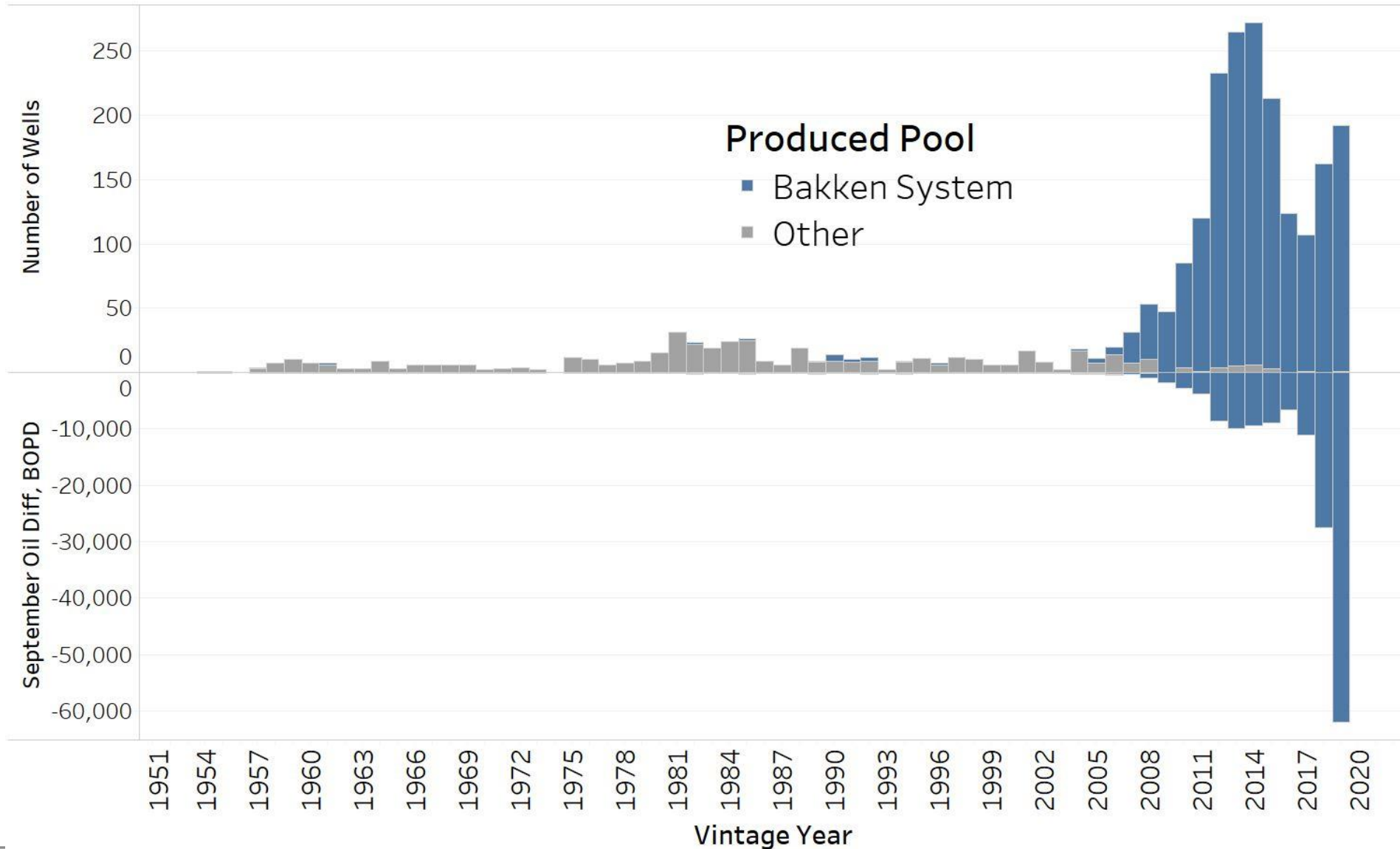


Sep. 2020

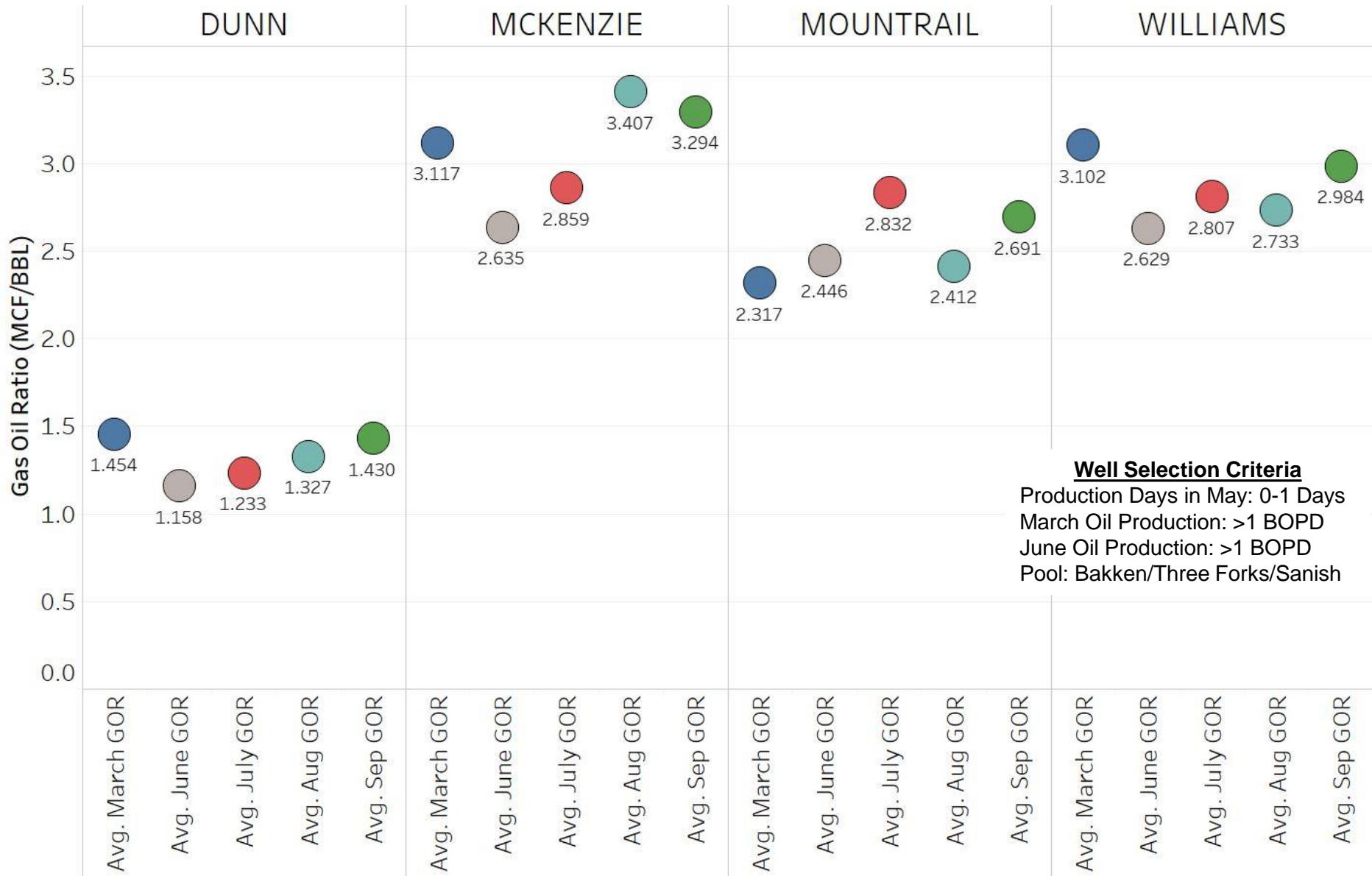




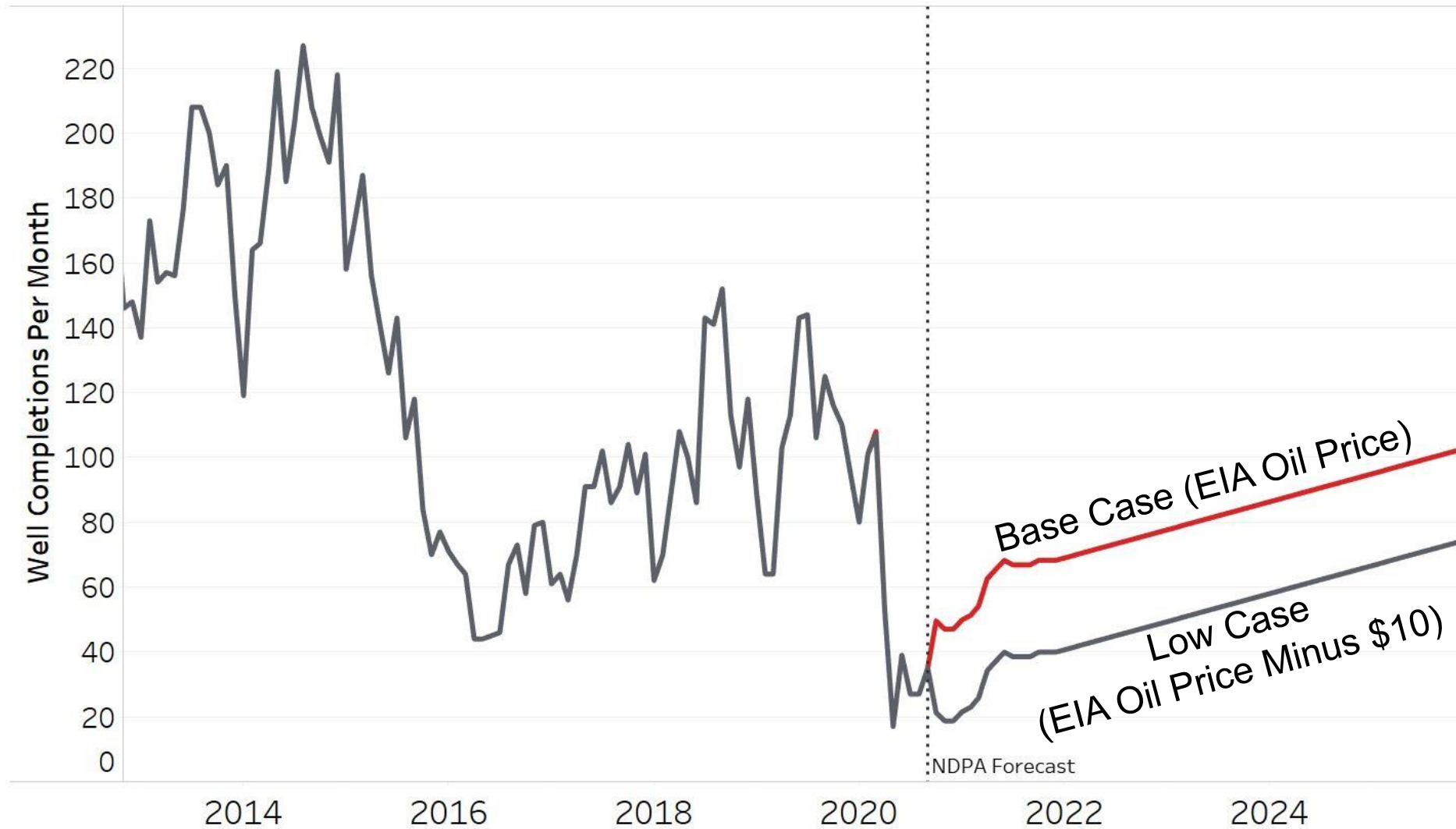
# Vintage Year of Shut-In Wells – Sep. 2020



# GOR Changes in Returning Curtailed Wells

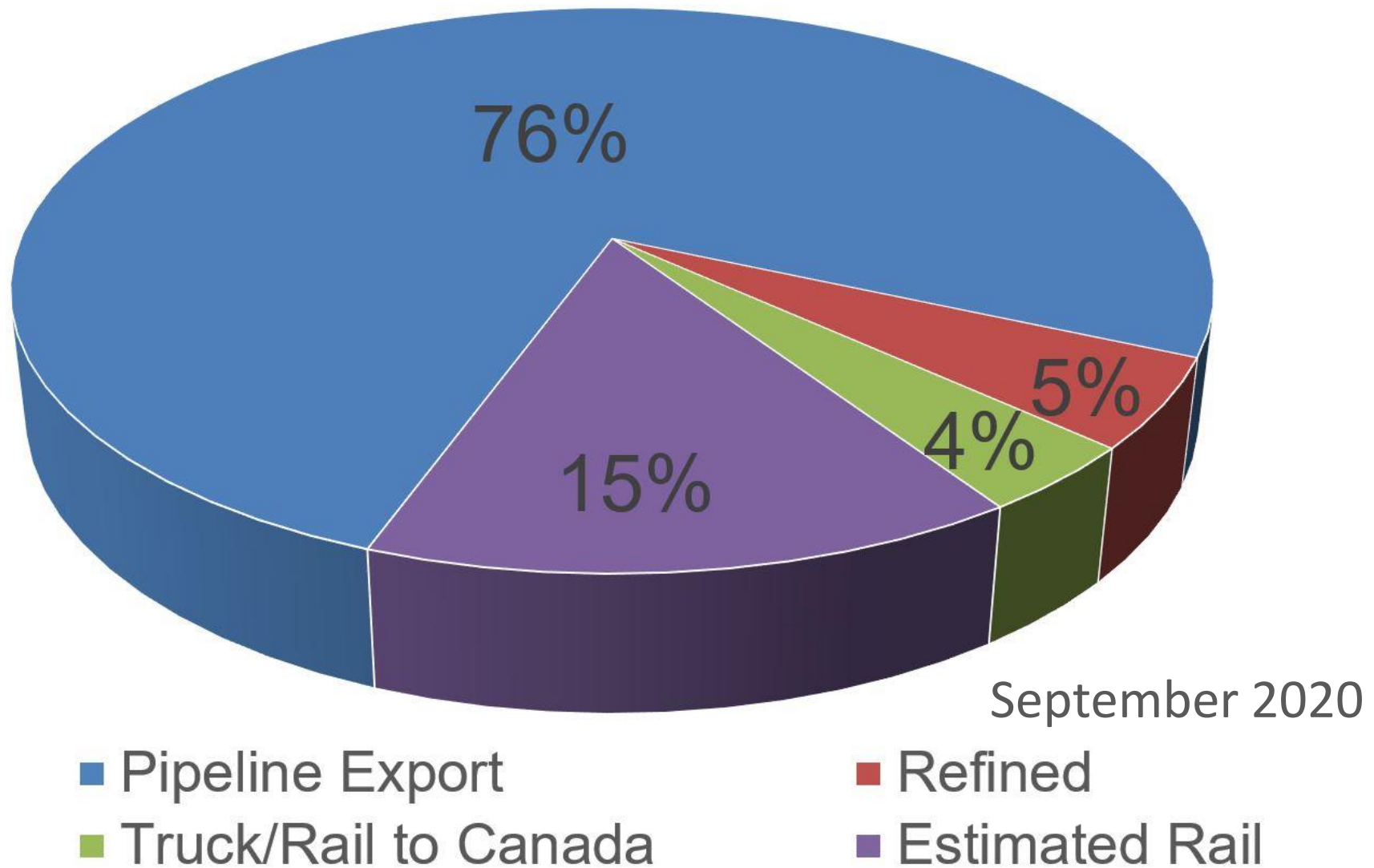


# North Dakota Completions

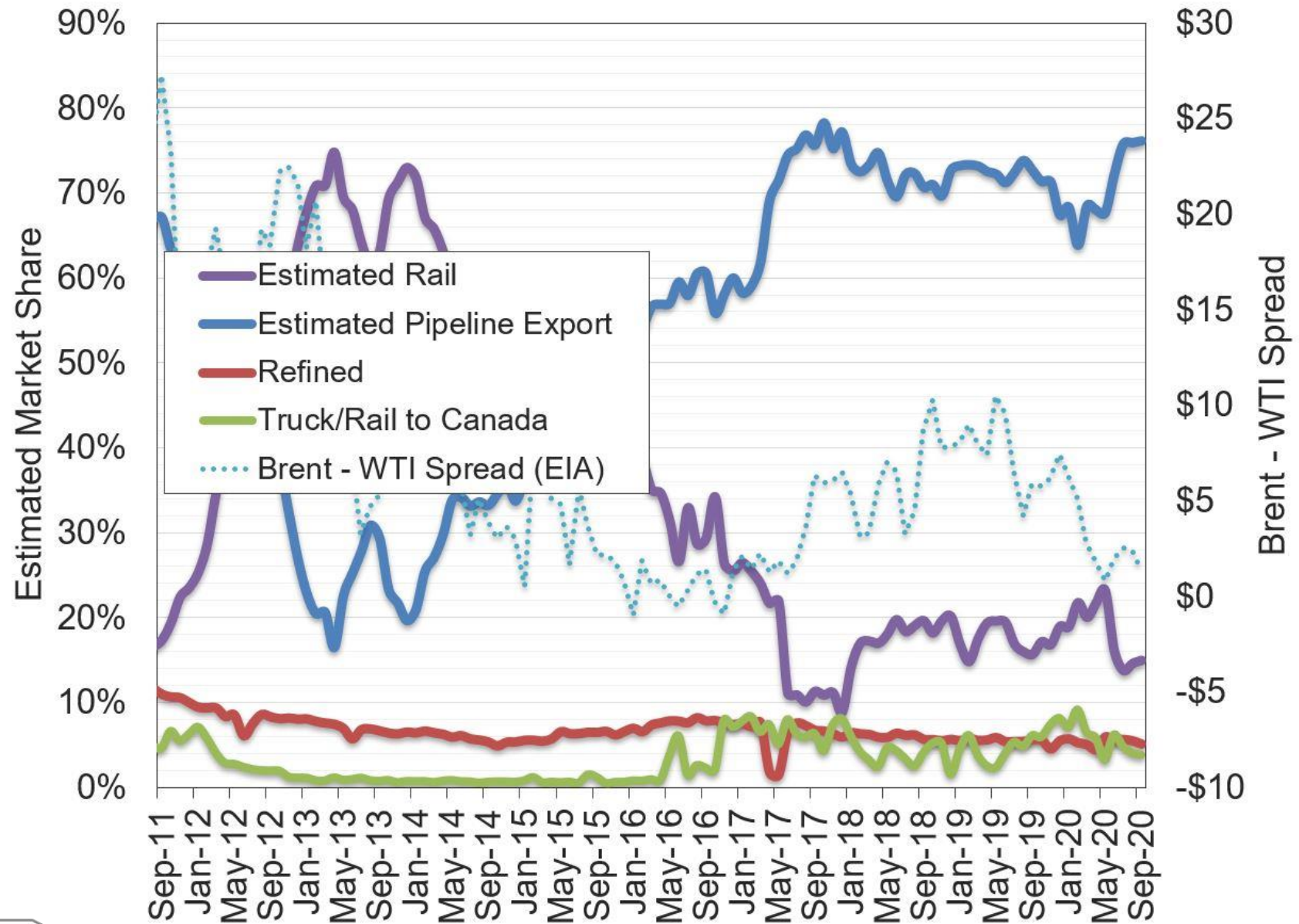




# Estimated Williston Basin Oil Transportation



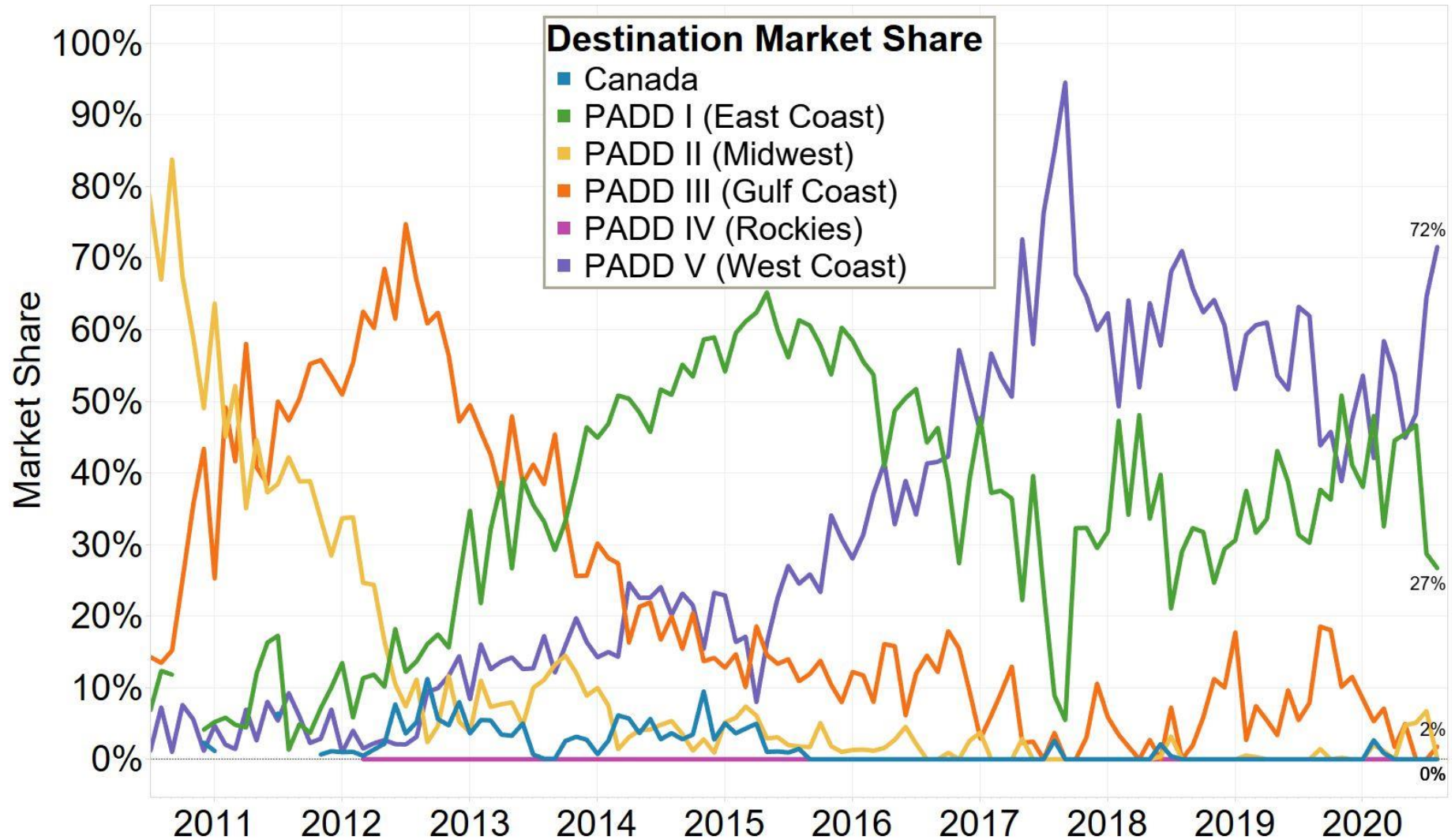
# Estimated Williston Basin Oil Transportation



# Estimated ND Rail Export Volumes



# Rail Destinations Market Share (Aug. 2020)

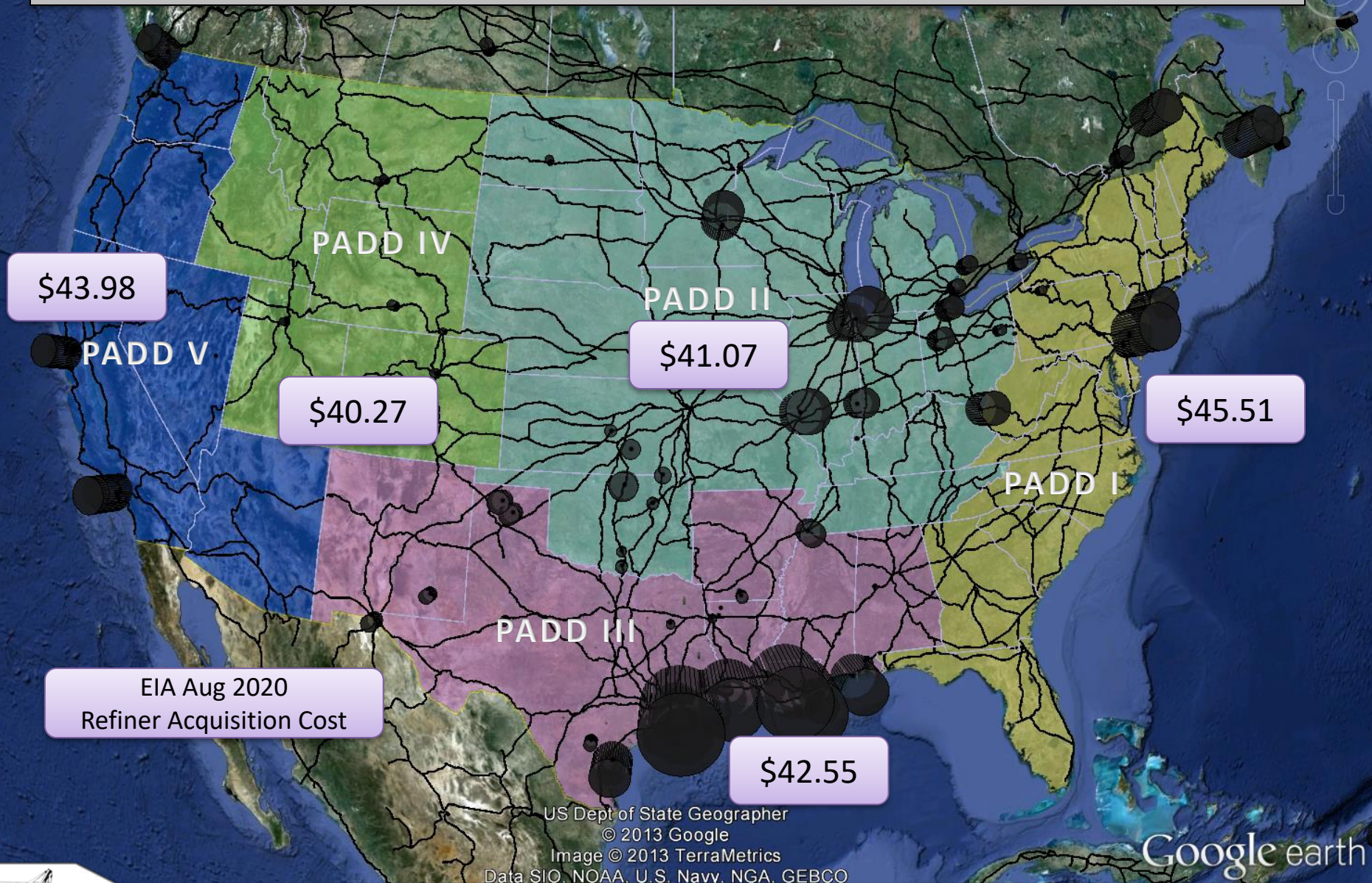


*Data for Rail Destination Market Share Provided by the US Energy Information Administration*



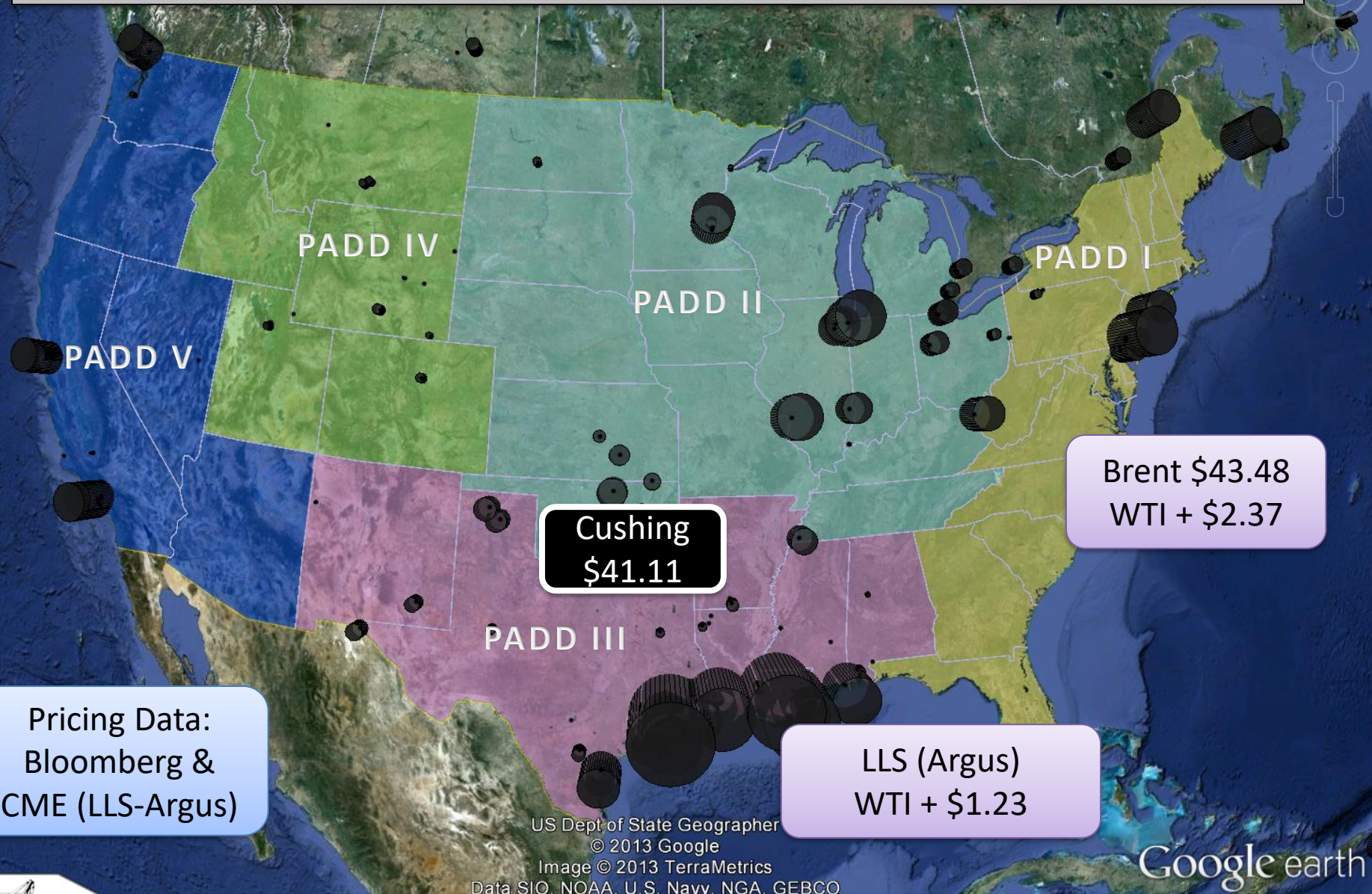


# Major Rail Lines and Refineries

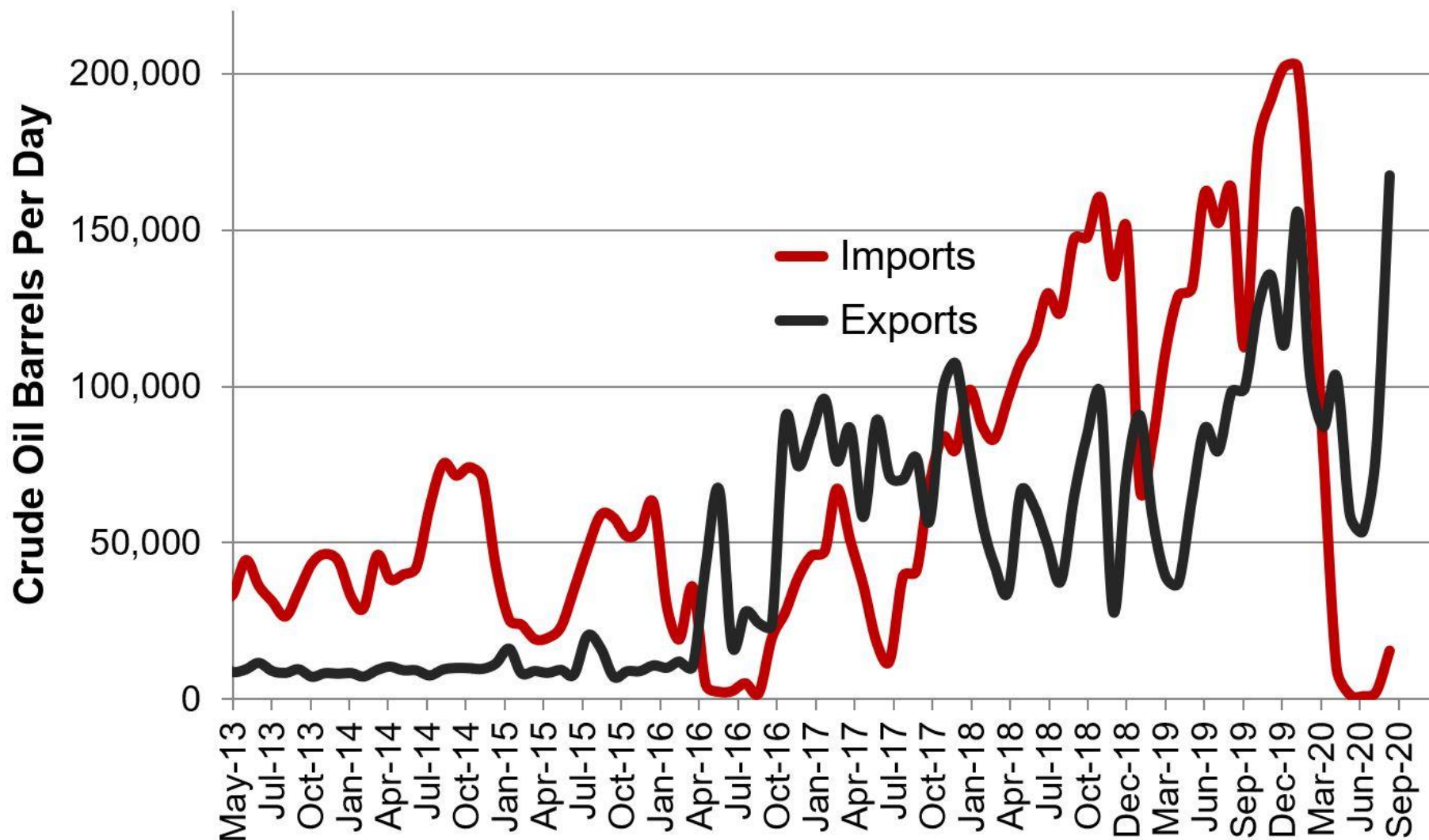




# Crude Oil Prices – Nov. 17, 2020



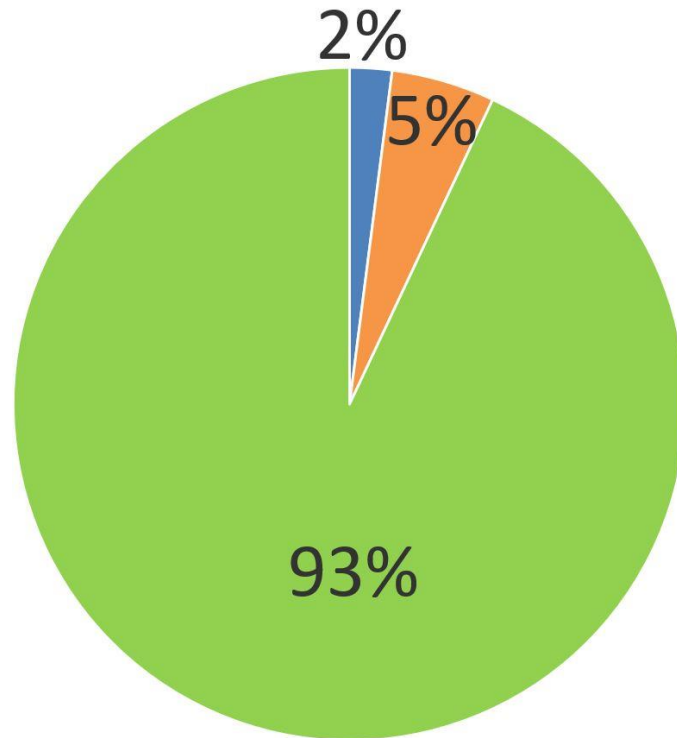
# Williston Basin Truck/Rail Imports and Exports with Canada



***Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.***



# Solving the Flaring Challenge



Statewide

**GREEN** – % of gas captured and sold  
**Blue** – % flared from zero sales wells  
**Orange** – % flared from wells with at least one mcf sold.

## Simple Terms

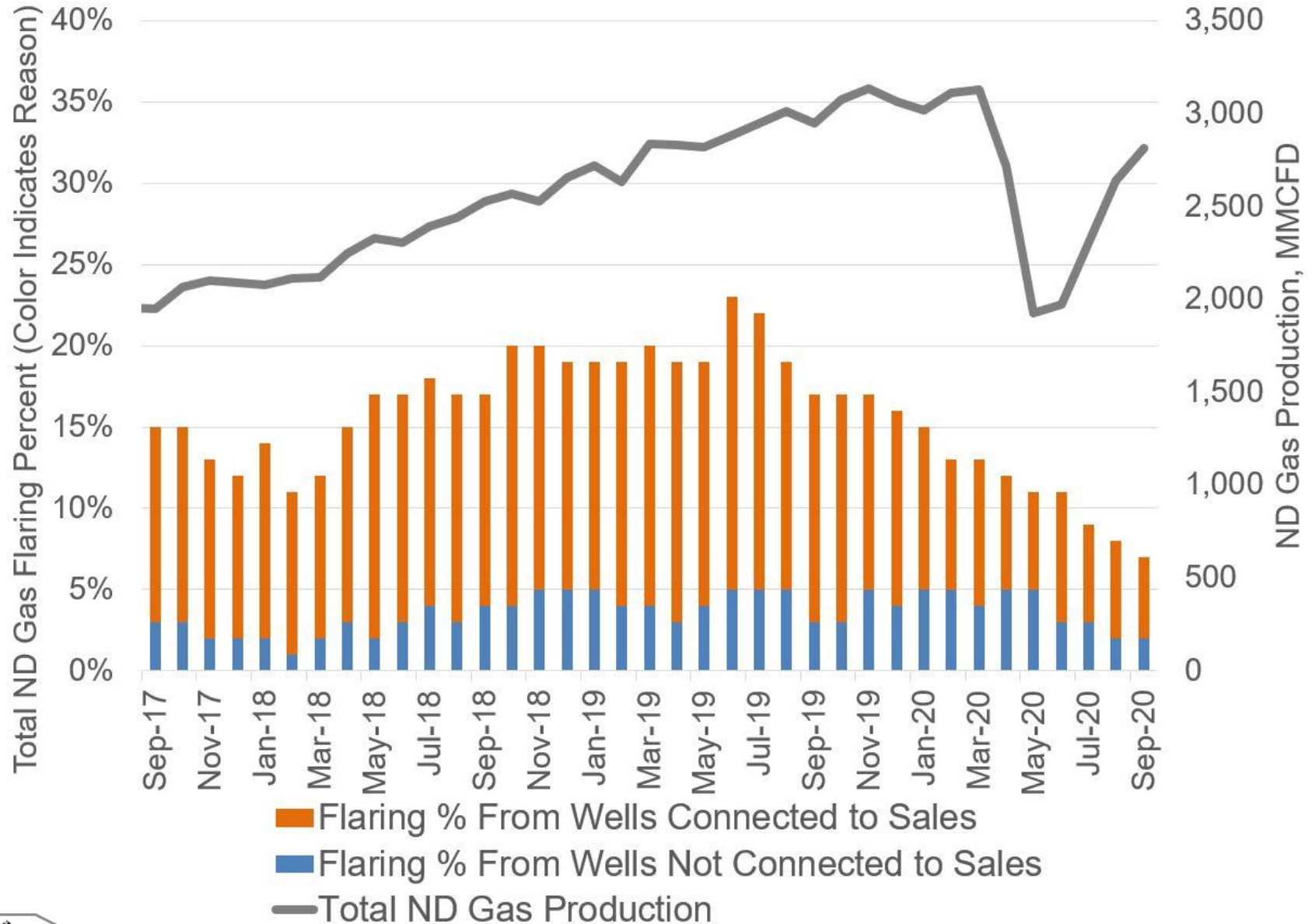
**Blue** – Lack of pipelines  
**Orange** – Challenges on existing infrastructure

September 2020 Data – Non-Confidential Wells

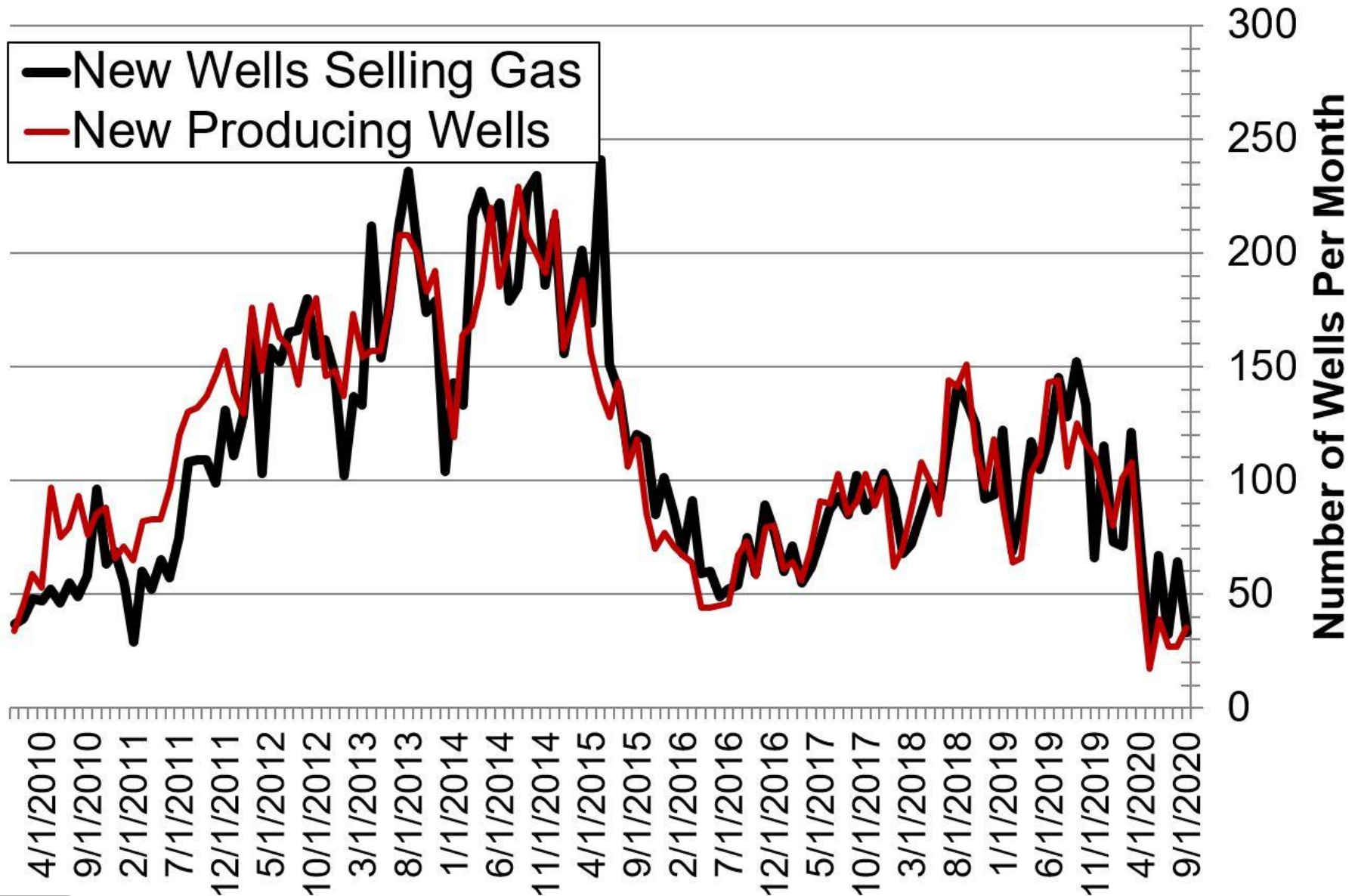




# Solving the Flaring Challenge

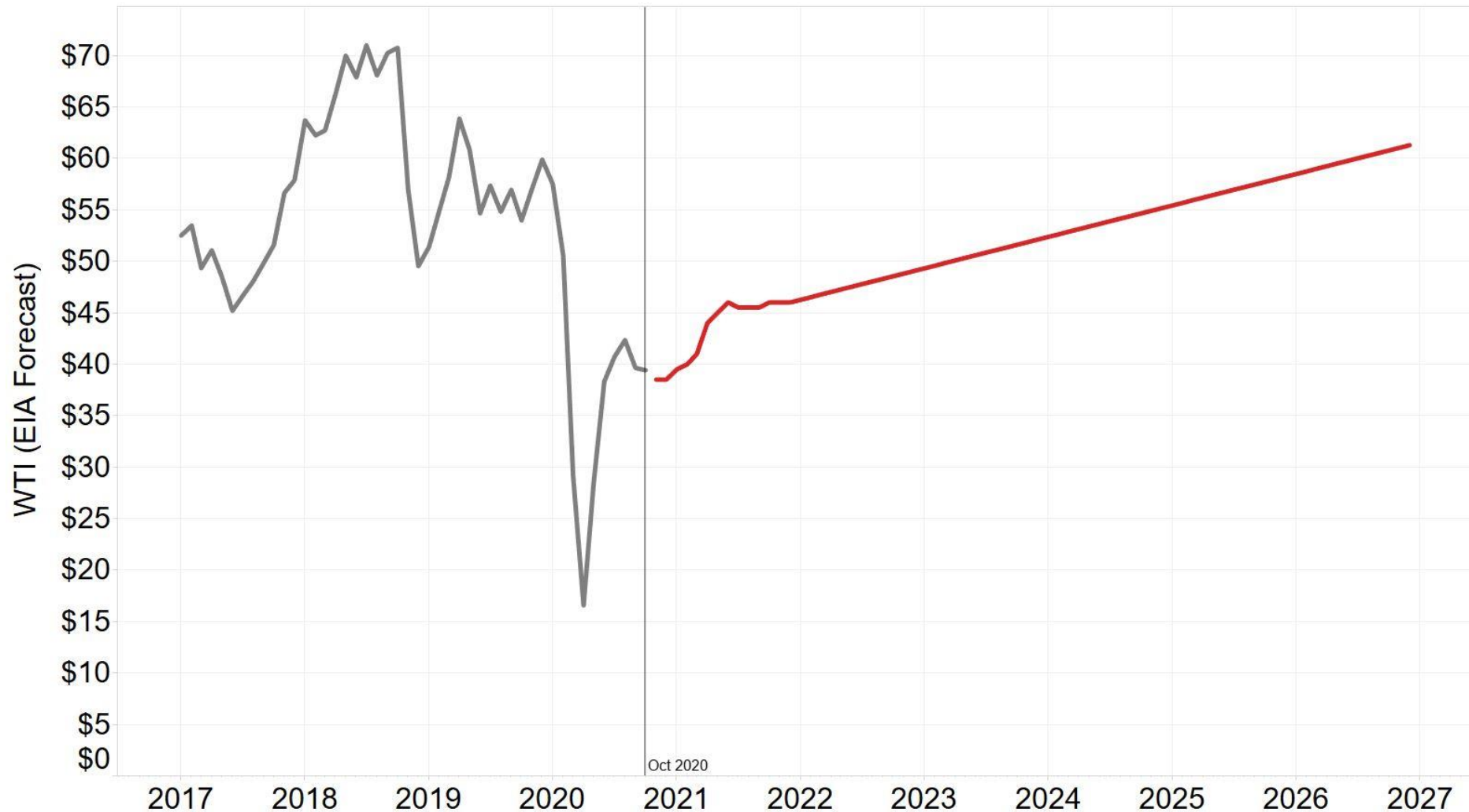


# Solving the Flaring Challenge





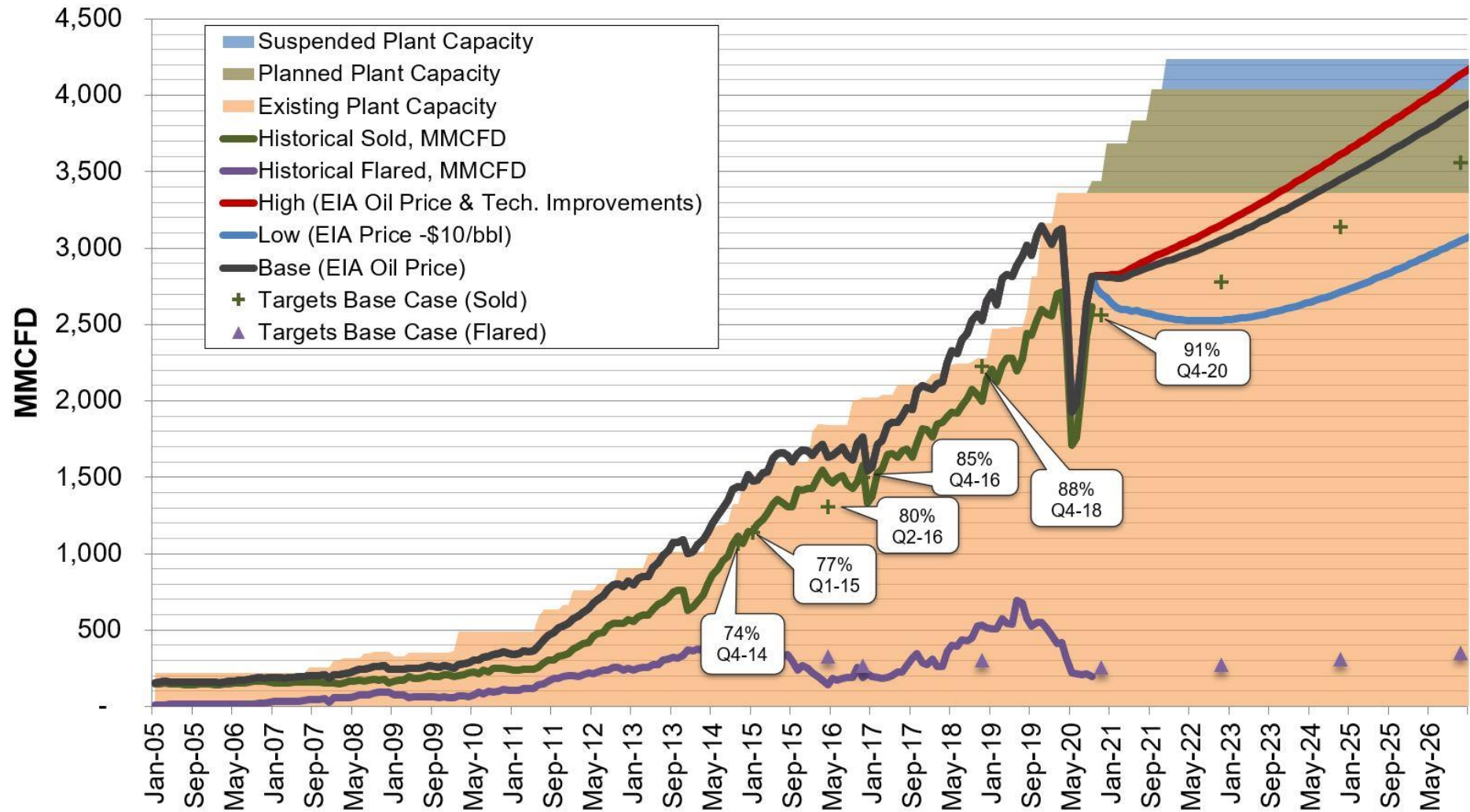
# EIA Oil Price Forecast\*



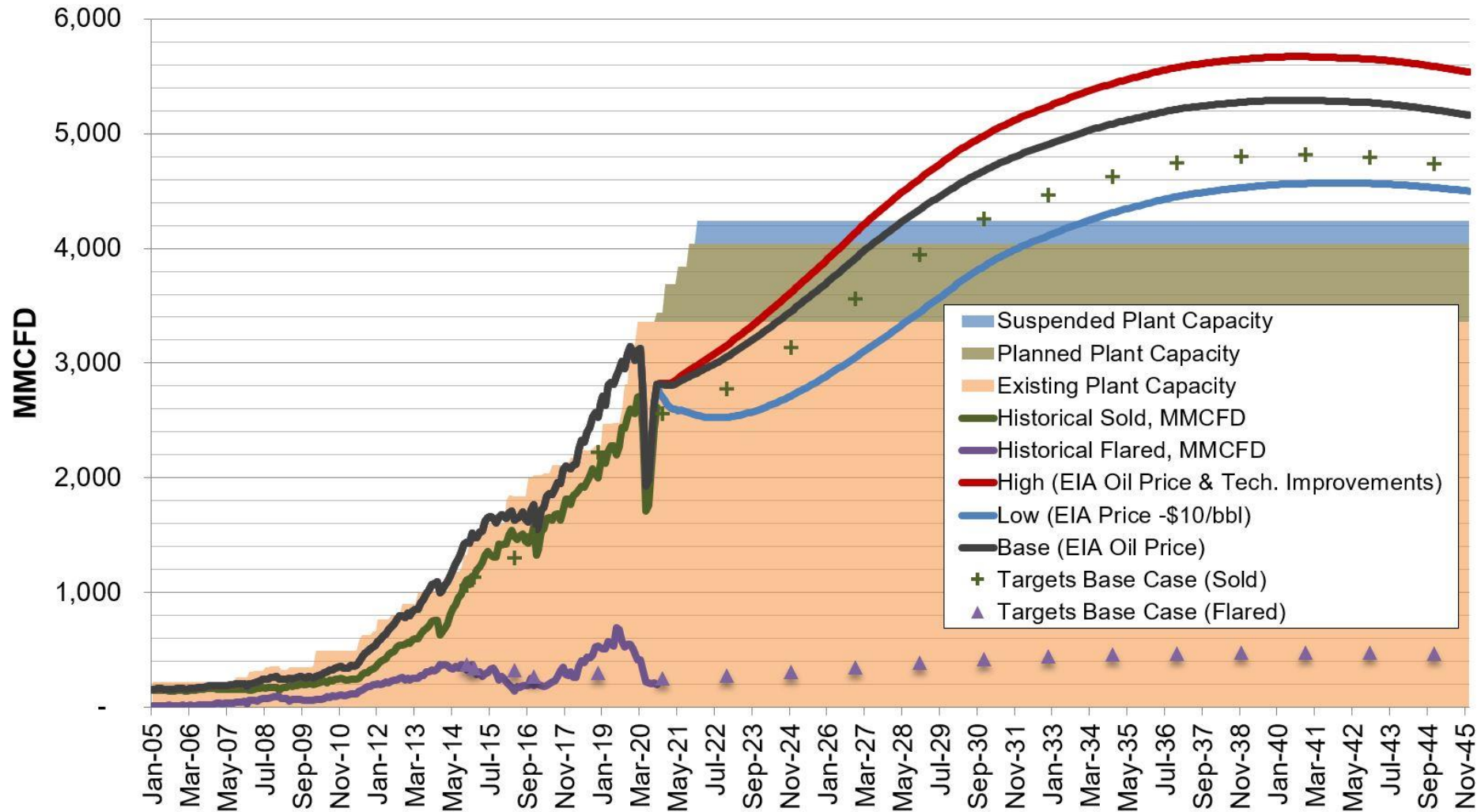
*\*EIA November 2020 SEO and January 2020 AEO Blend*



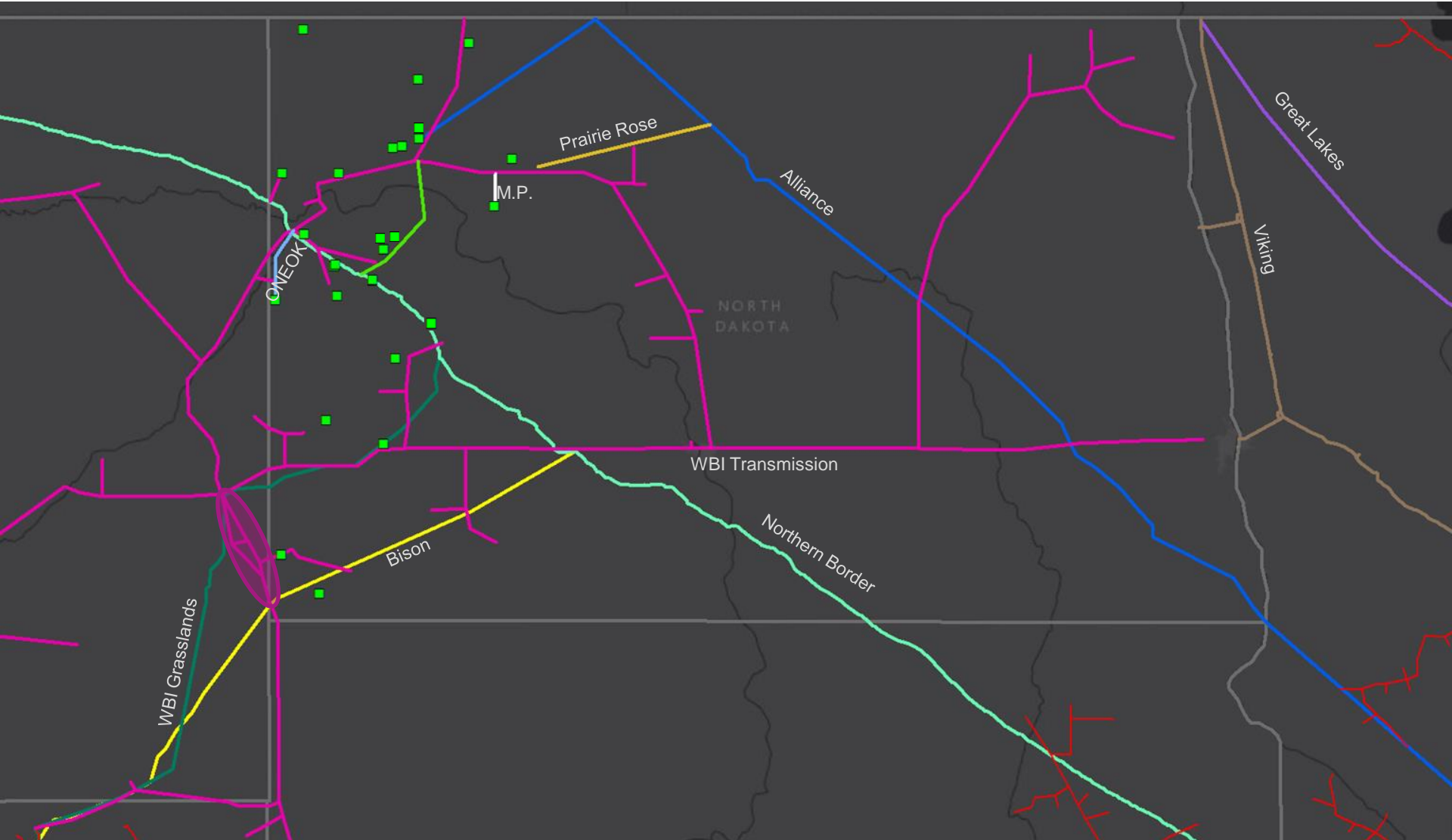
# Solving the Flaring Challenge



# Solving the Flaring Challenge

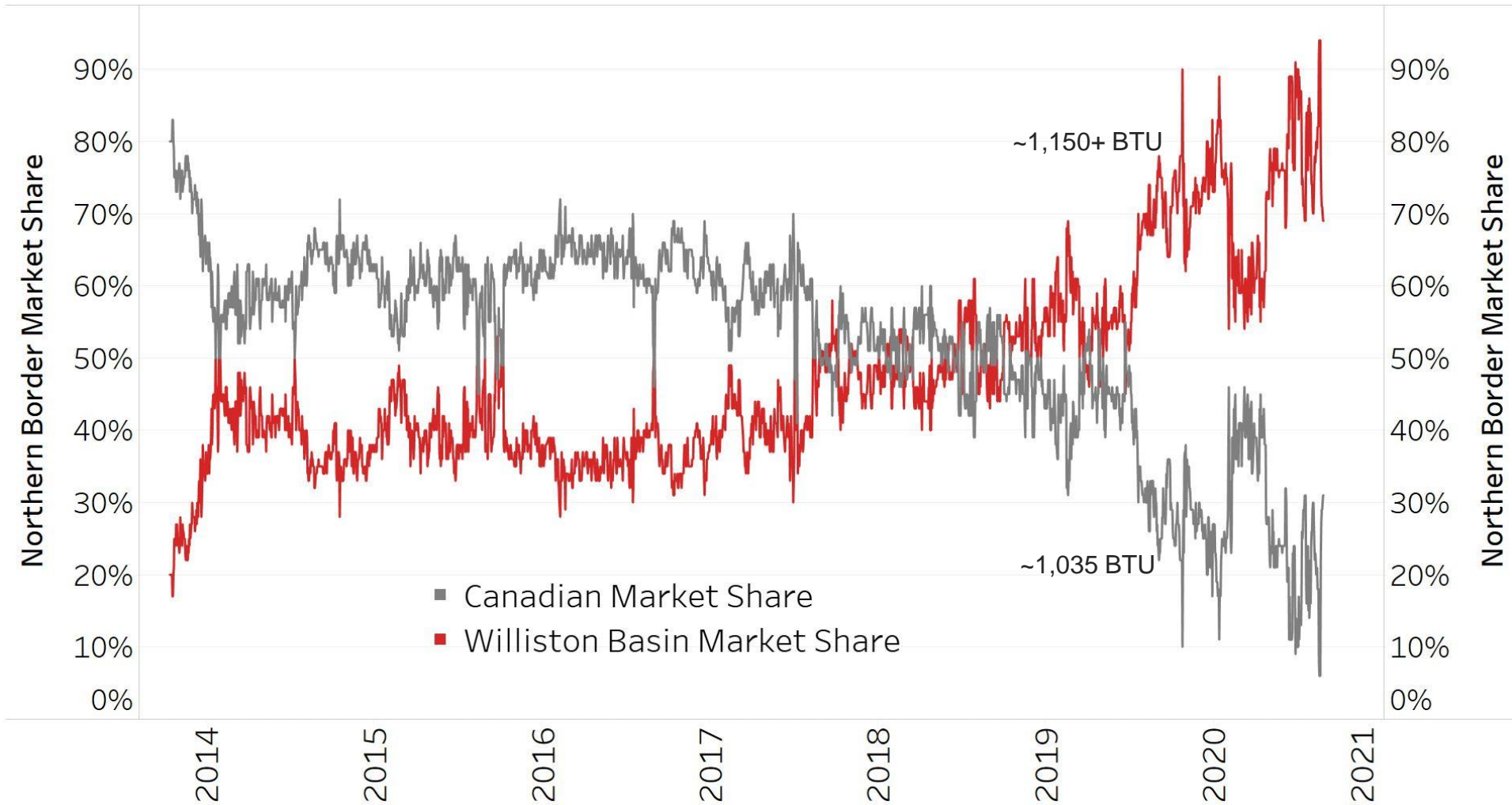


# Major Gas Pipeline and Processing Infrastructure



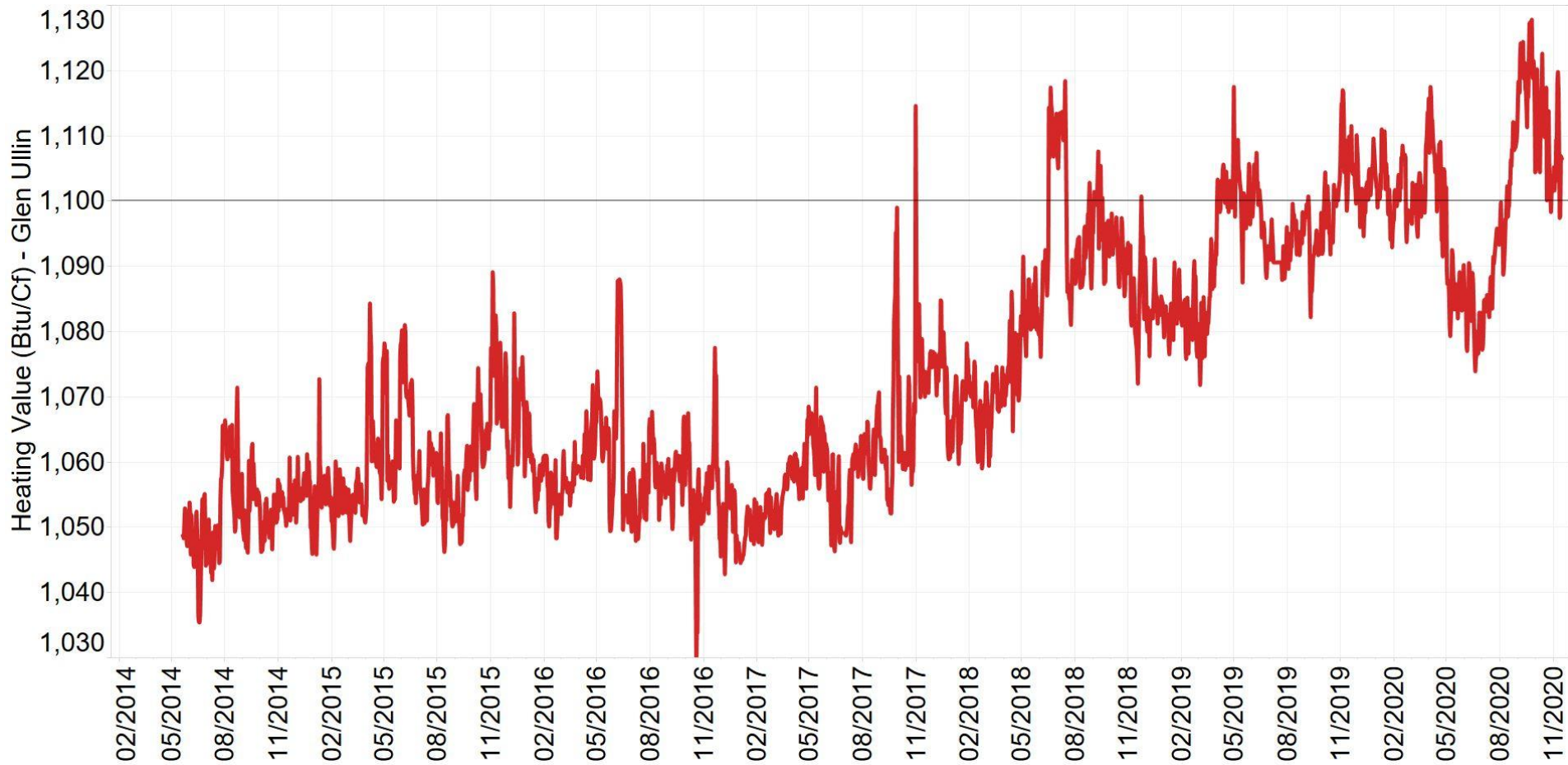


# Northern Border Pipeline Market Share

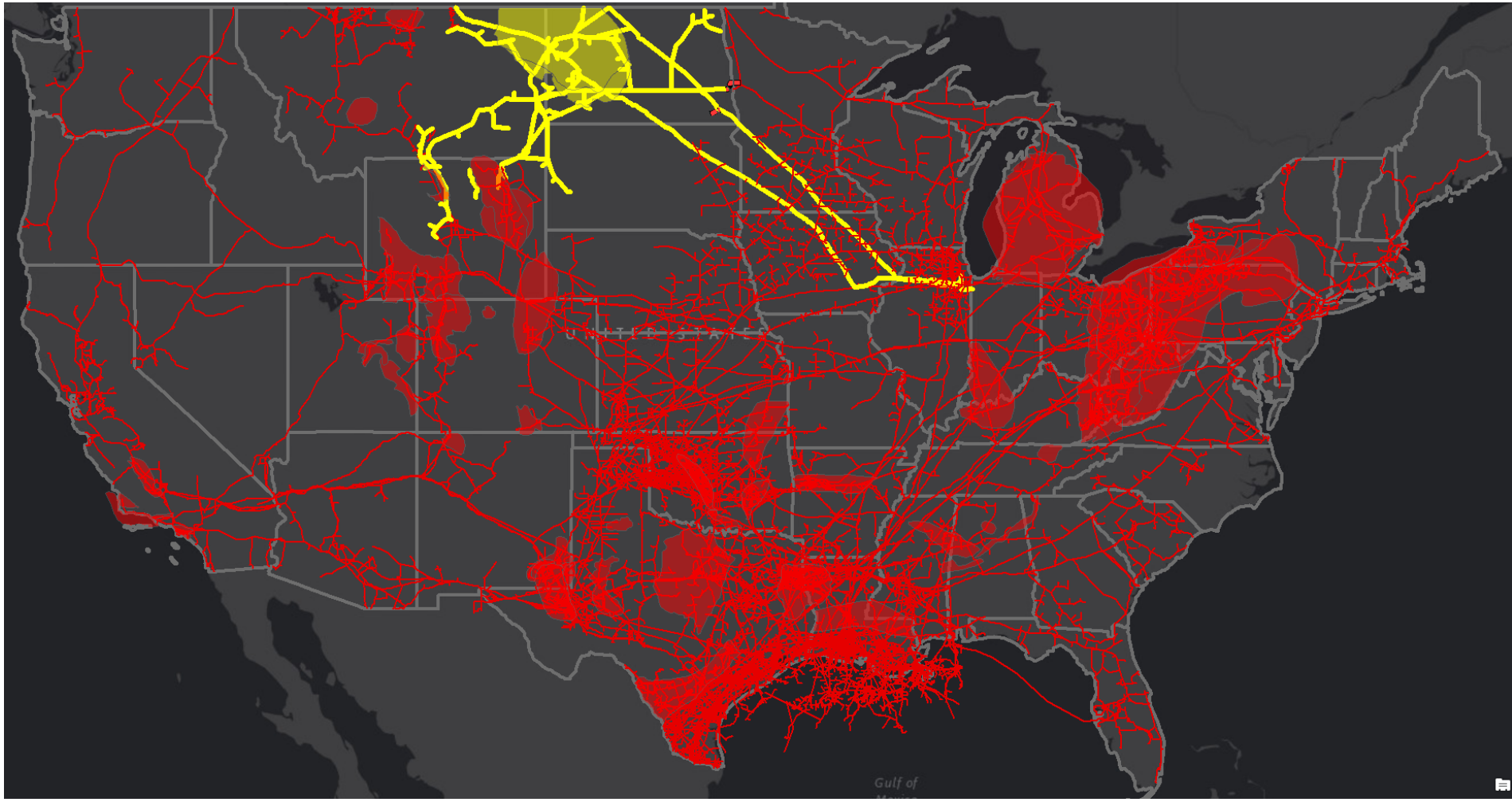




# Northern Border BTU at Glen Ullin, ND



# Bakken Natural Gas Infrastructure



# Contact Information

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Websites:

[www.pipeline.nd.gov](http://www.pipeline.nd.gov)

[www.northdakotapipelines.com](http://www.northdakotapipelines.com)



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