



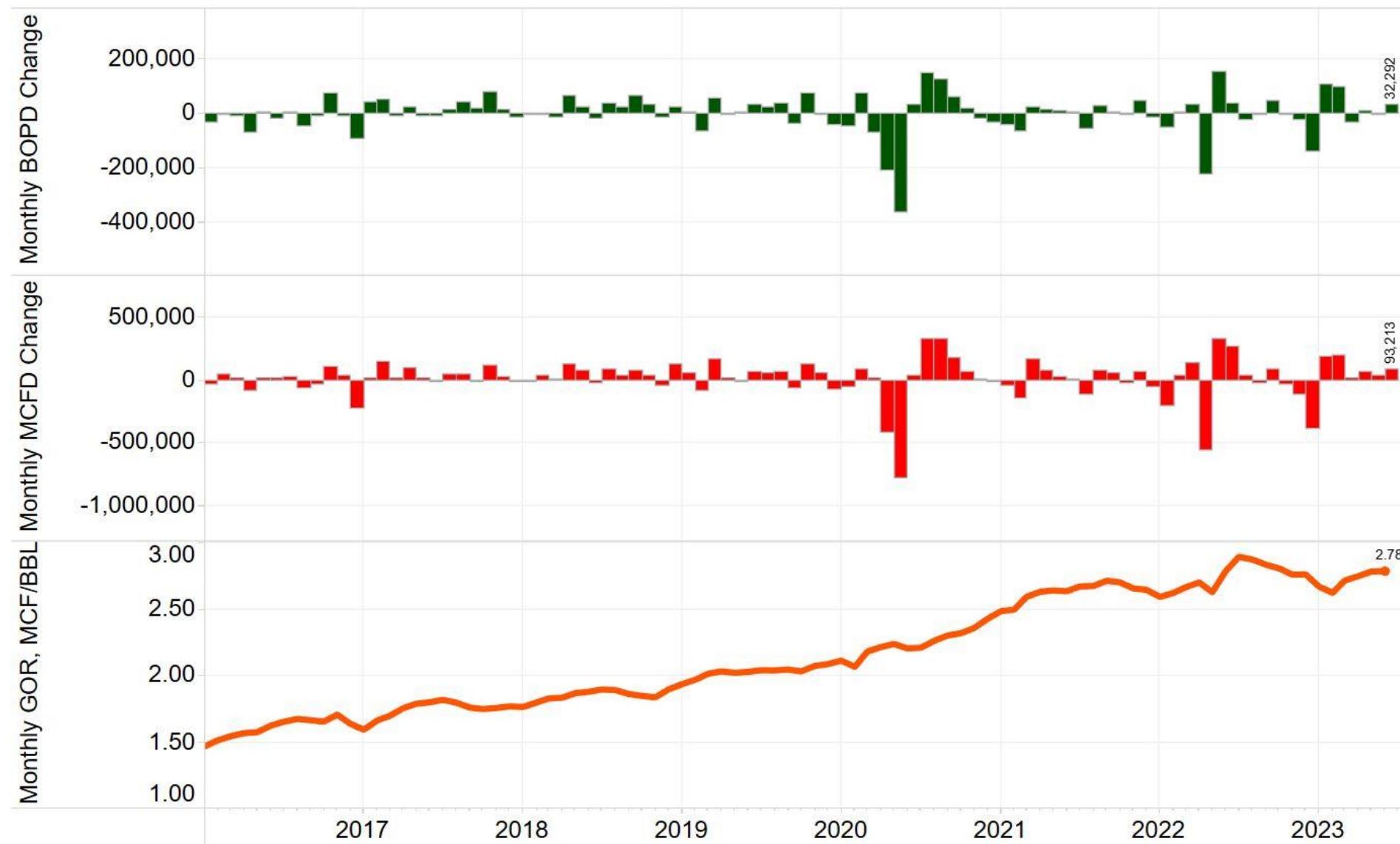
August 2023 Monthly Update  
North Dakota Pipeline Authority  
Justin J. Kringstad  
August 15, 2023

# US Williston Basin Oil Production - 2023

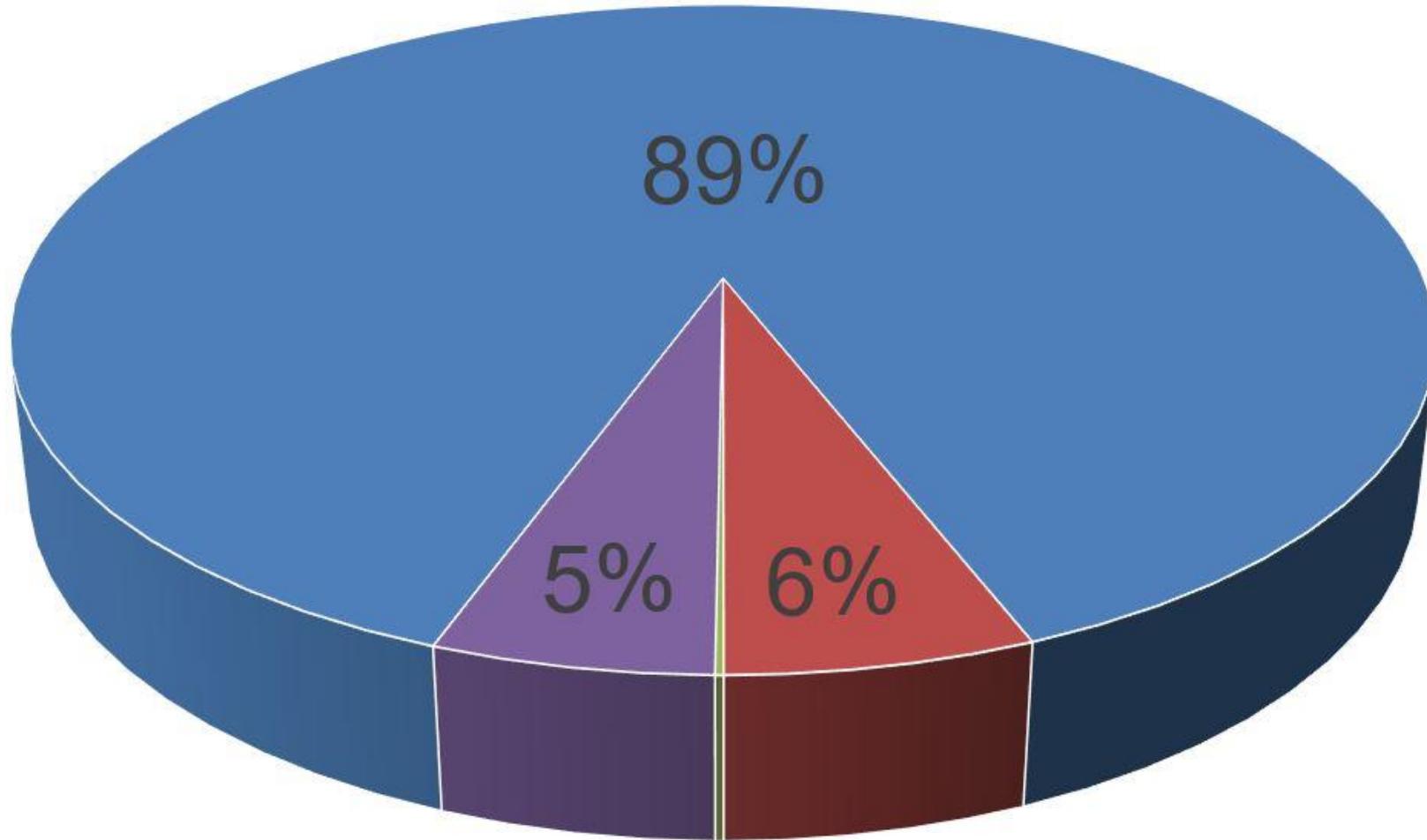
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,062,857	62,039	2,610	1,127,506
February	1,158,983	63,483	2,475	1,224,941
March	1,124,904	64,465	2,652	1,192,021
April	1,135,827	61,066	2,557	1,199,450
May	1,135,009		2,560	
June	1,167,301		2,274	
July				
August				
September				
October				
November				
December				



# North Dakota Monthly Production Change



# Estimated Williston Basin Oil Transportation



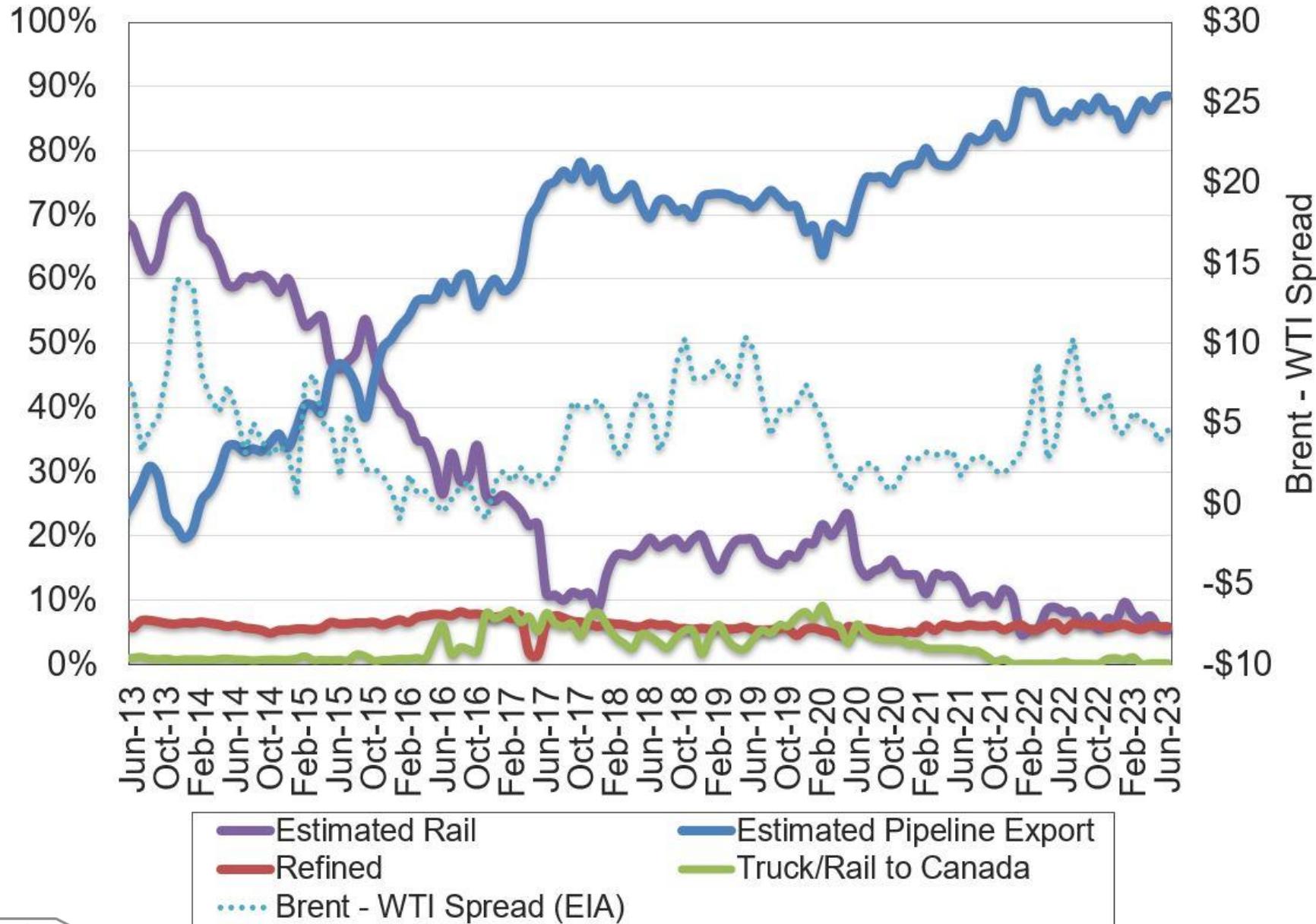
- Pipeline Export 0%
- Truck/Rail to Canada

- Refined
- Estimated Rail

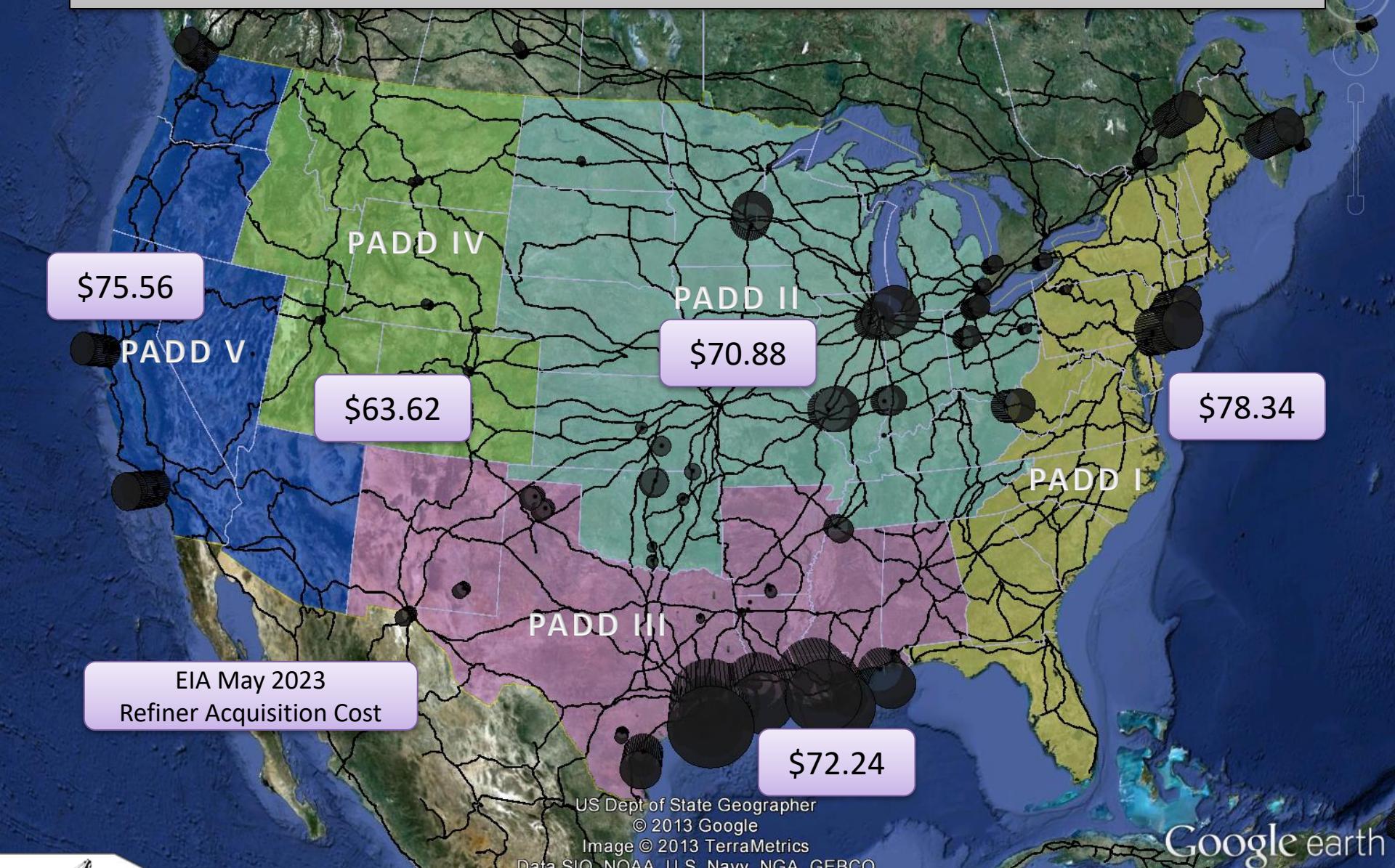
June 2023



# Estimated Williston Basin Oil Transportation



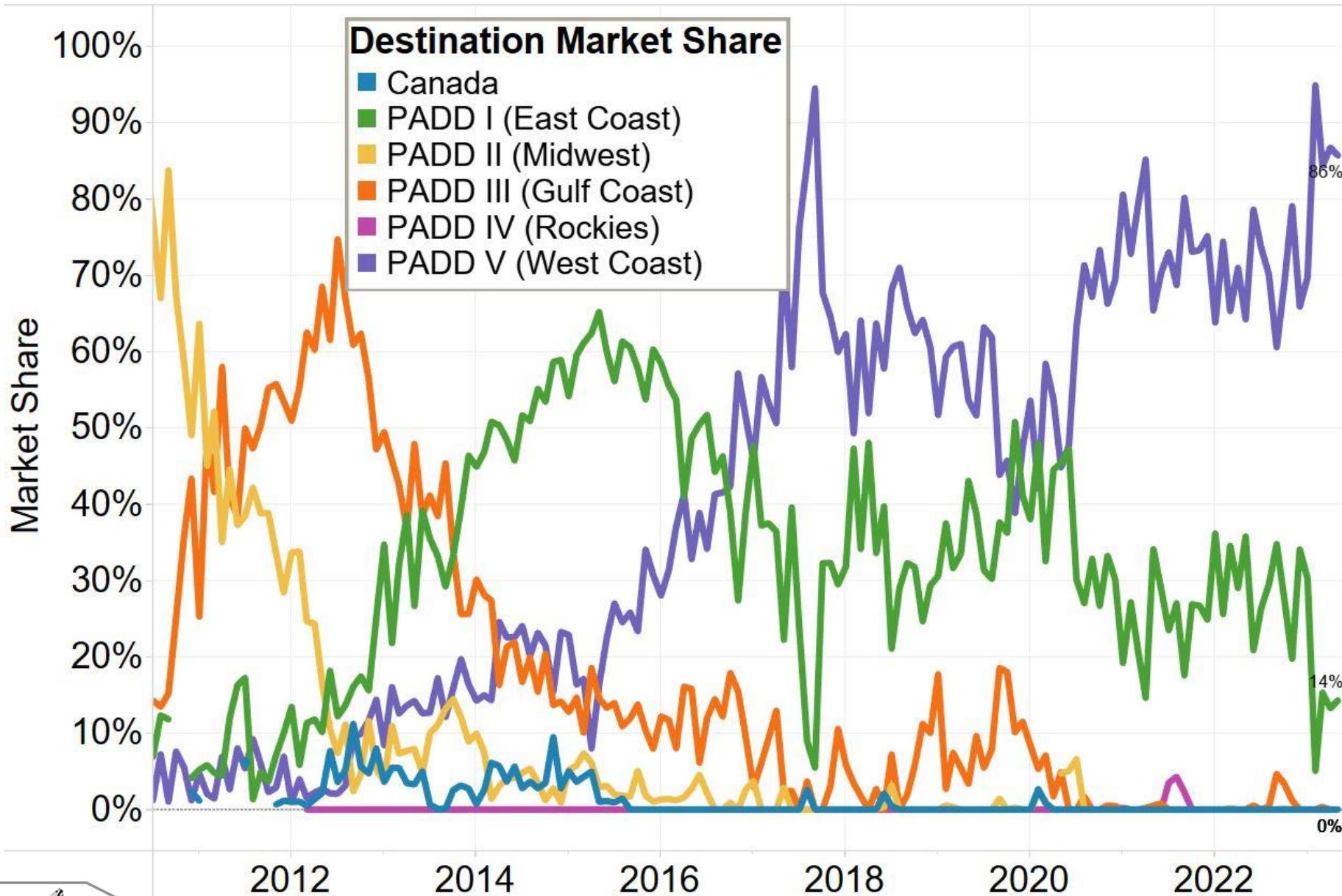
# Major Rail Lines and Refineries



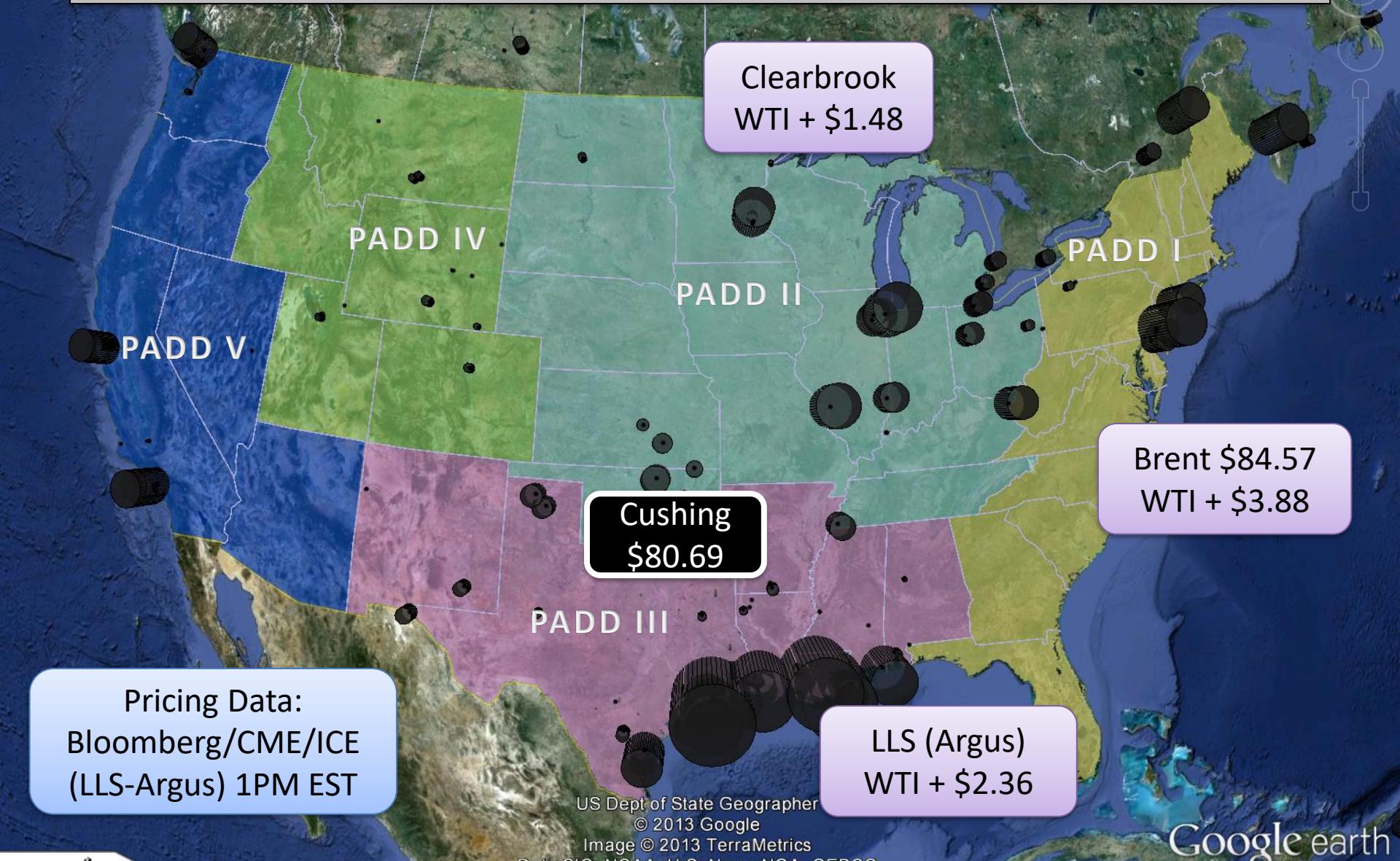
# Estimated ND Rail Export Volumes



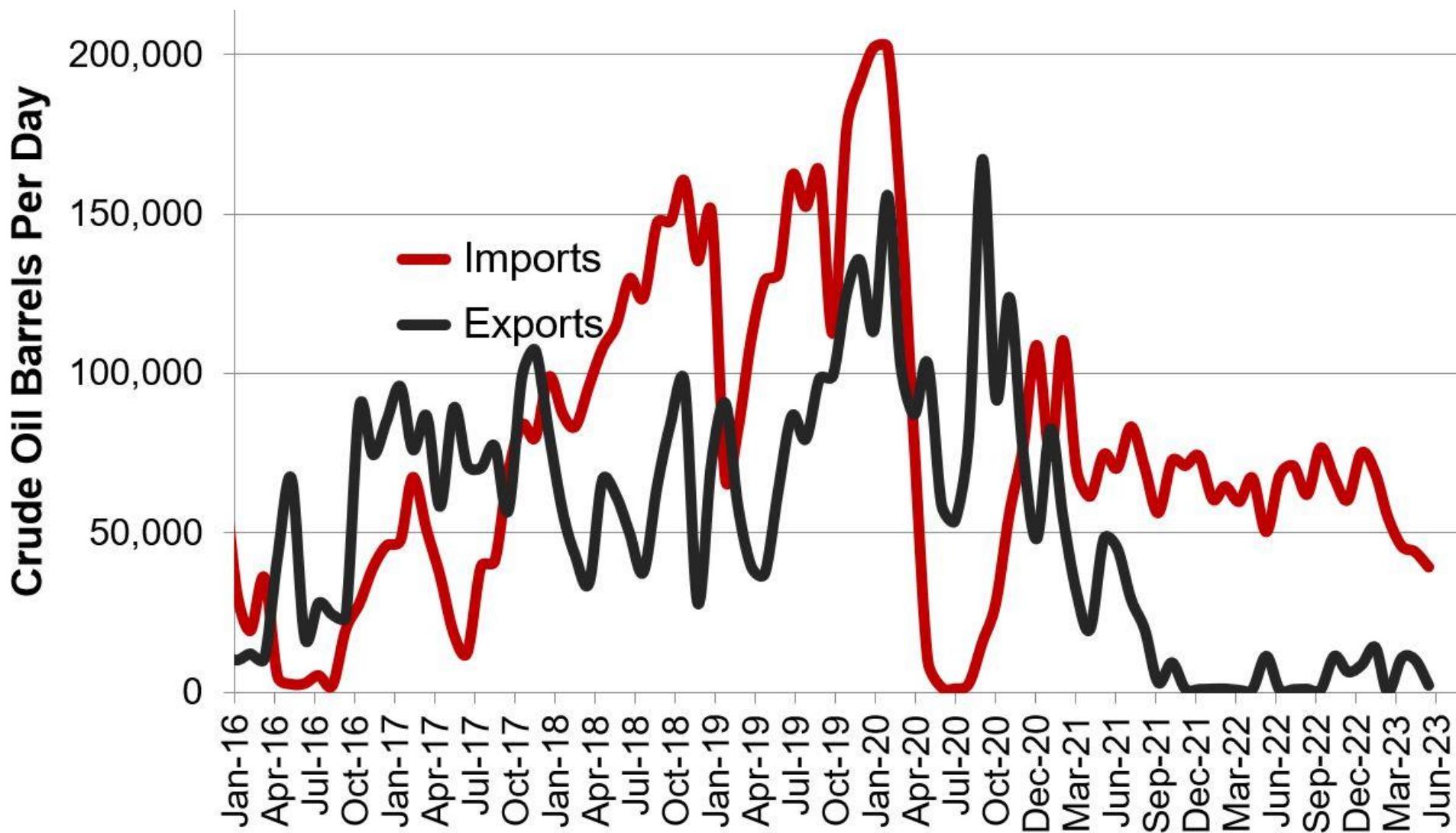
# Rail Destinations Market Share (May 2023)



# Crude Oil Prices – August 15, 2023



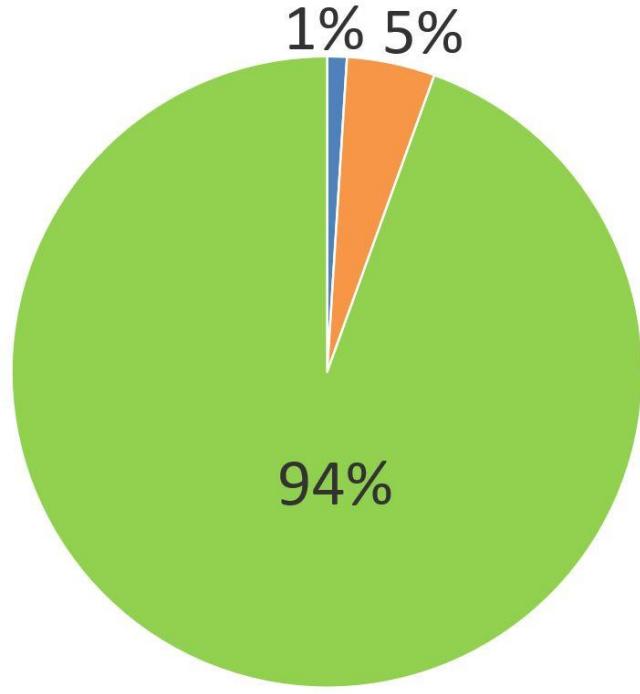
# Williston Basin Truck/Rail Imports and Exports with Canada



*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



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

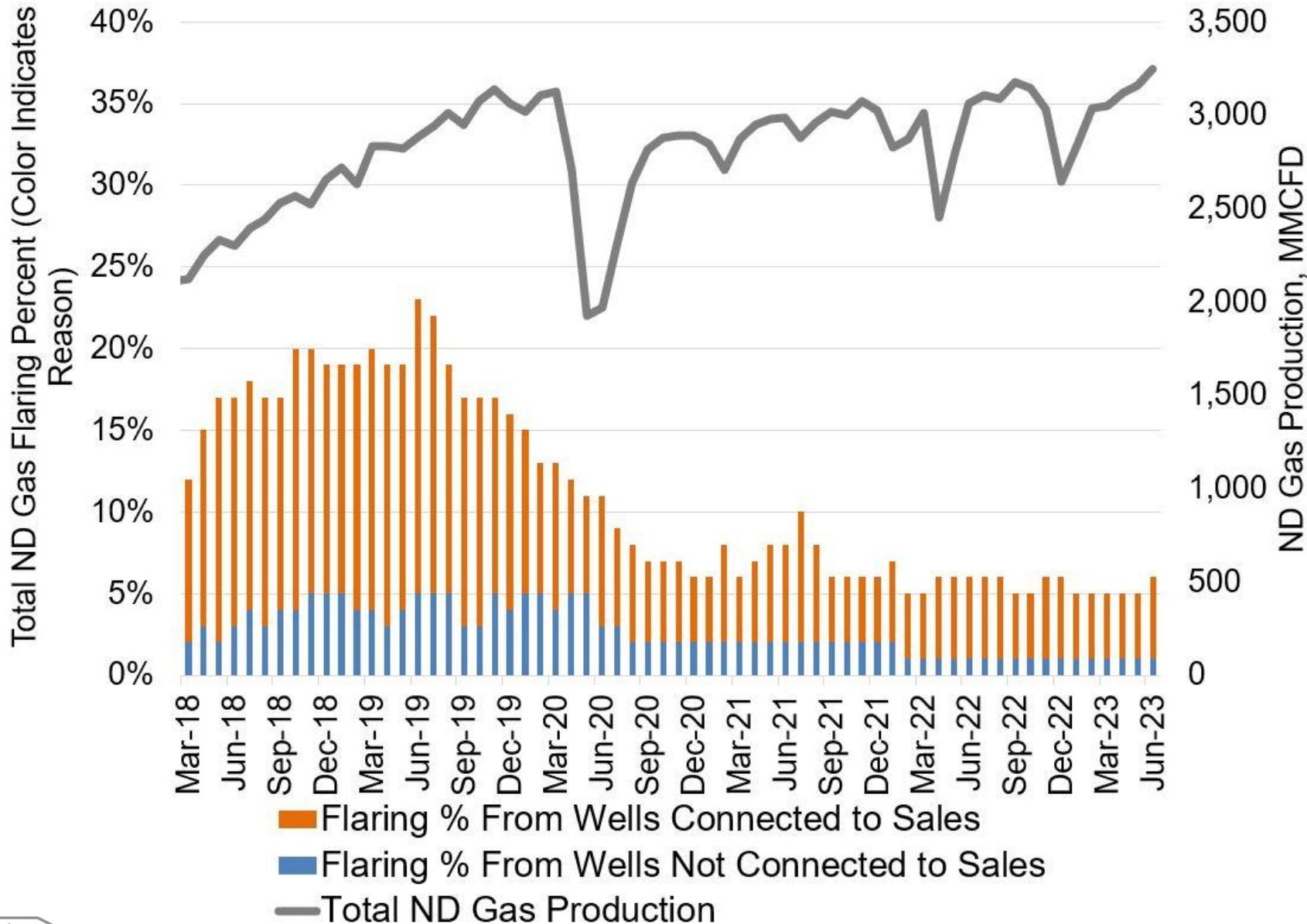
## Simple Terms

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

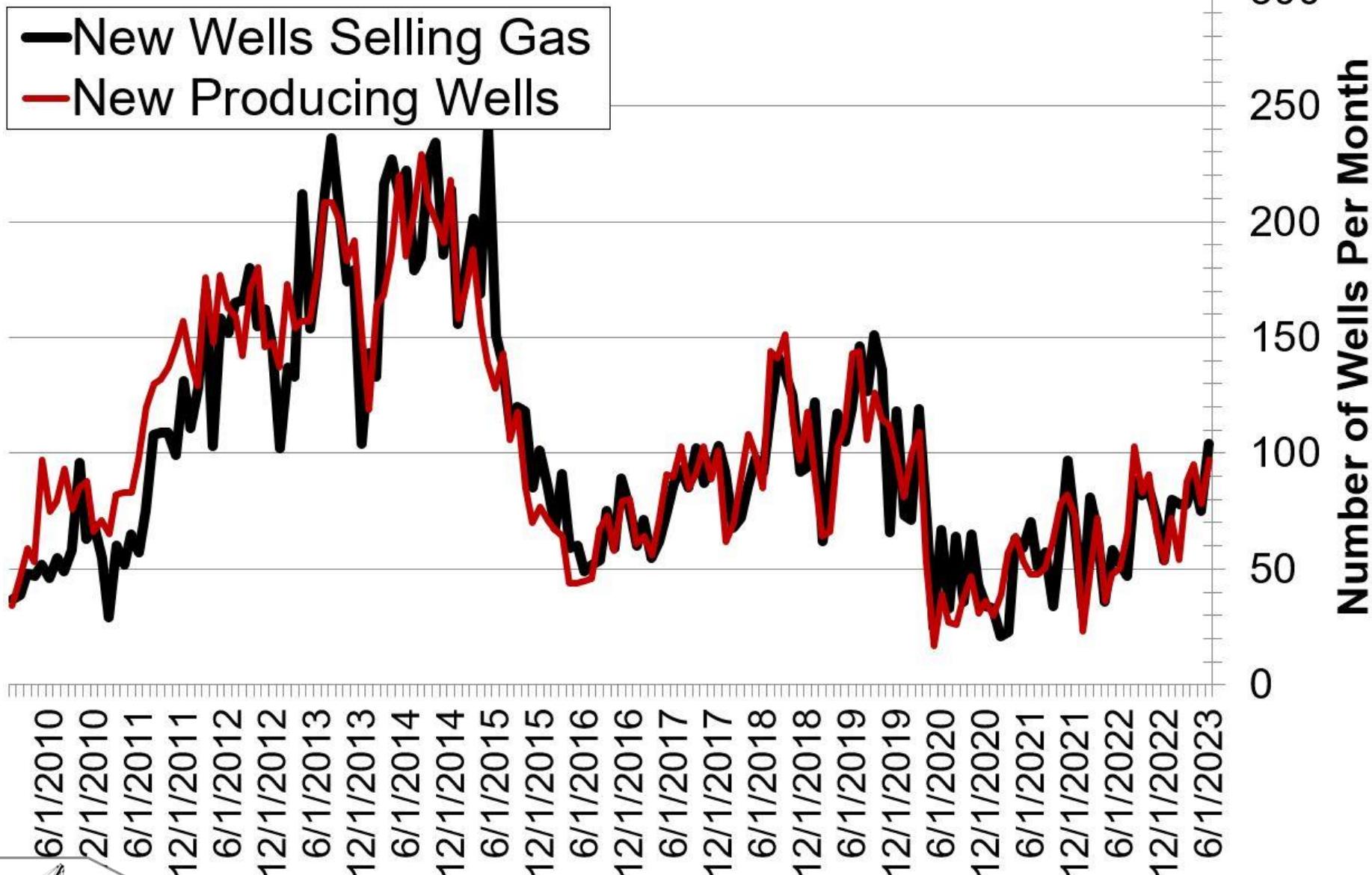
June 2023 Data – Non-Confidential Wells



# Solving the Flaring Challenge

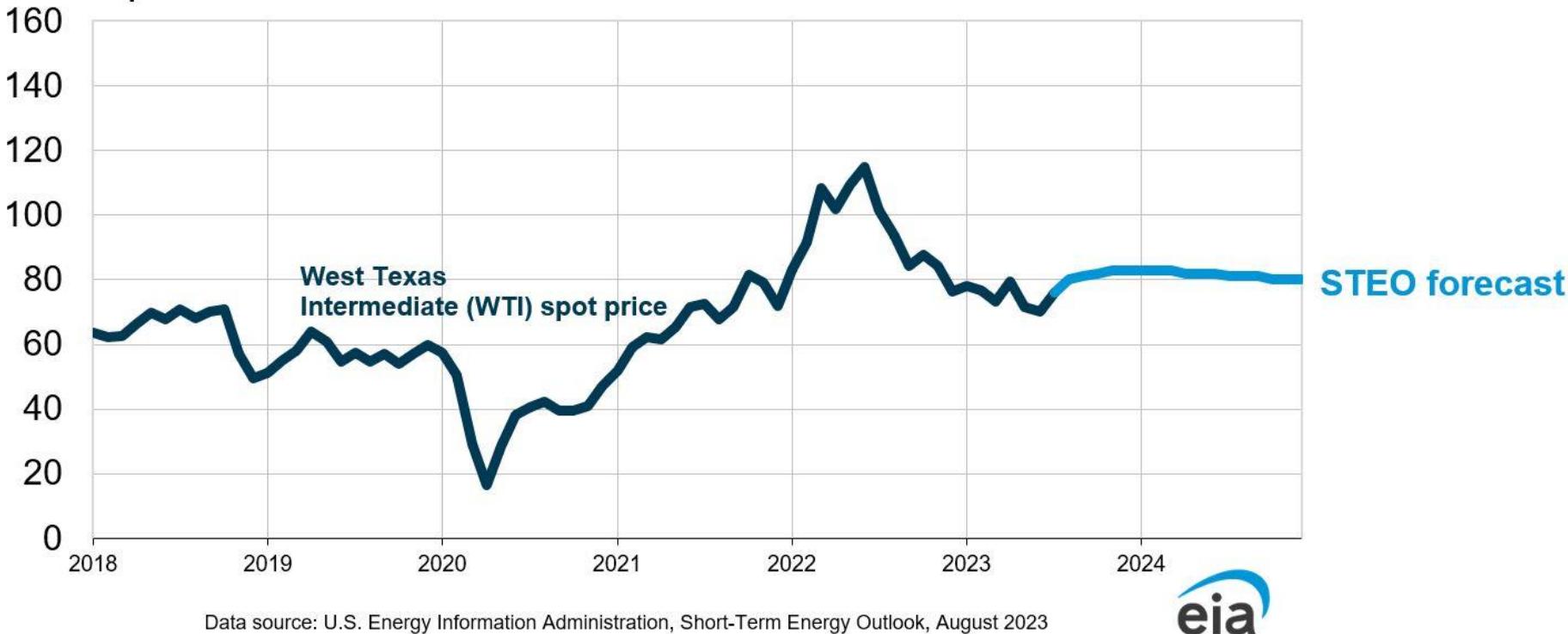


# Solving the Flaring Challenge



# EIA Oil Price Forecast: August 2023

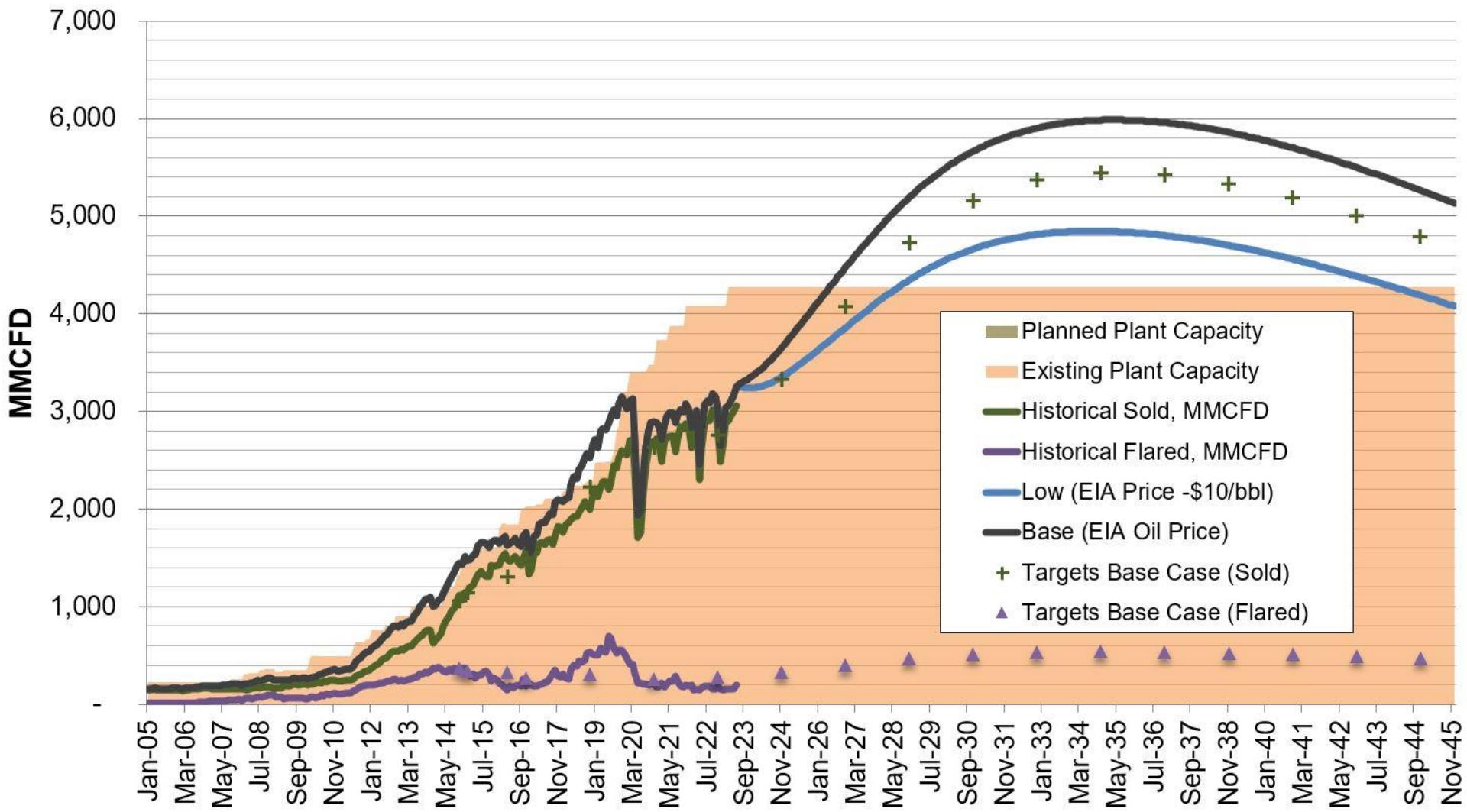
## West Texas Intermediate (WTI) crude oil price dollars per barrel



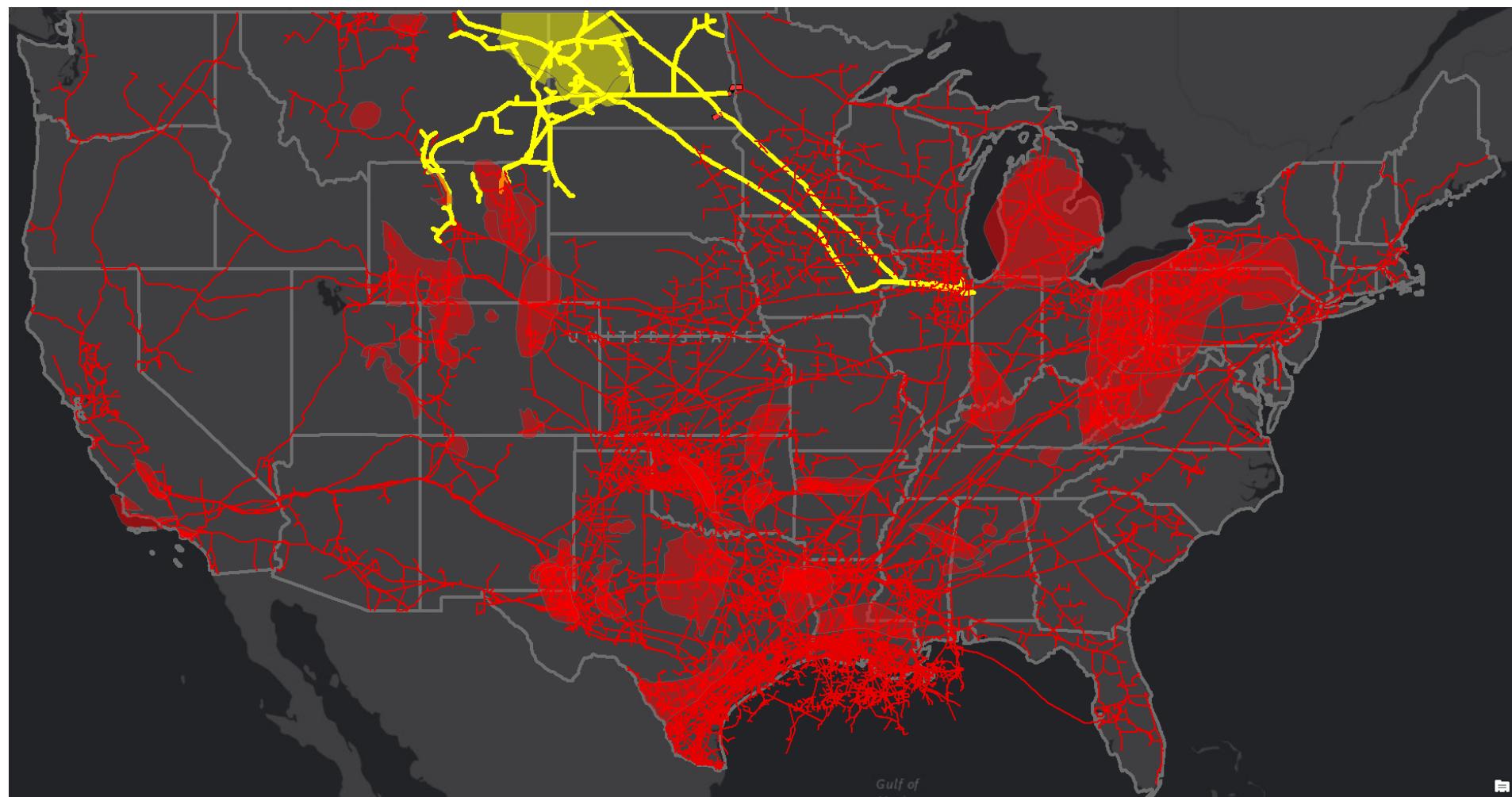
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, August 2023



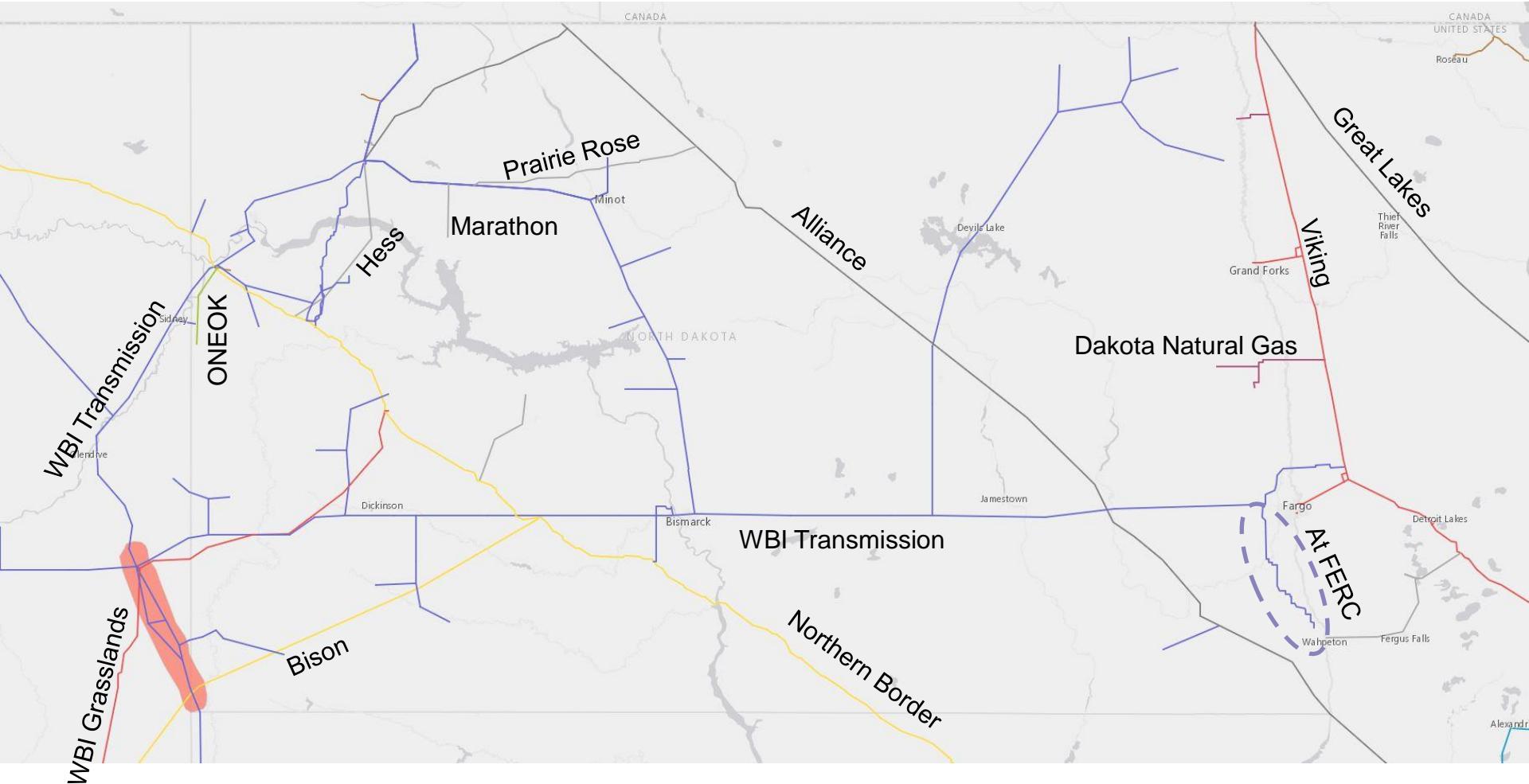
# Solving the Flaring Challenge



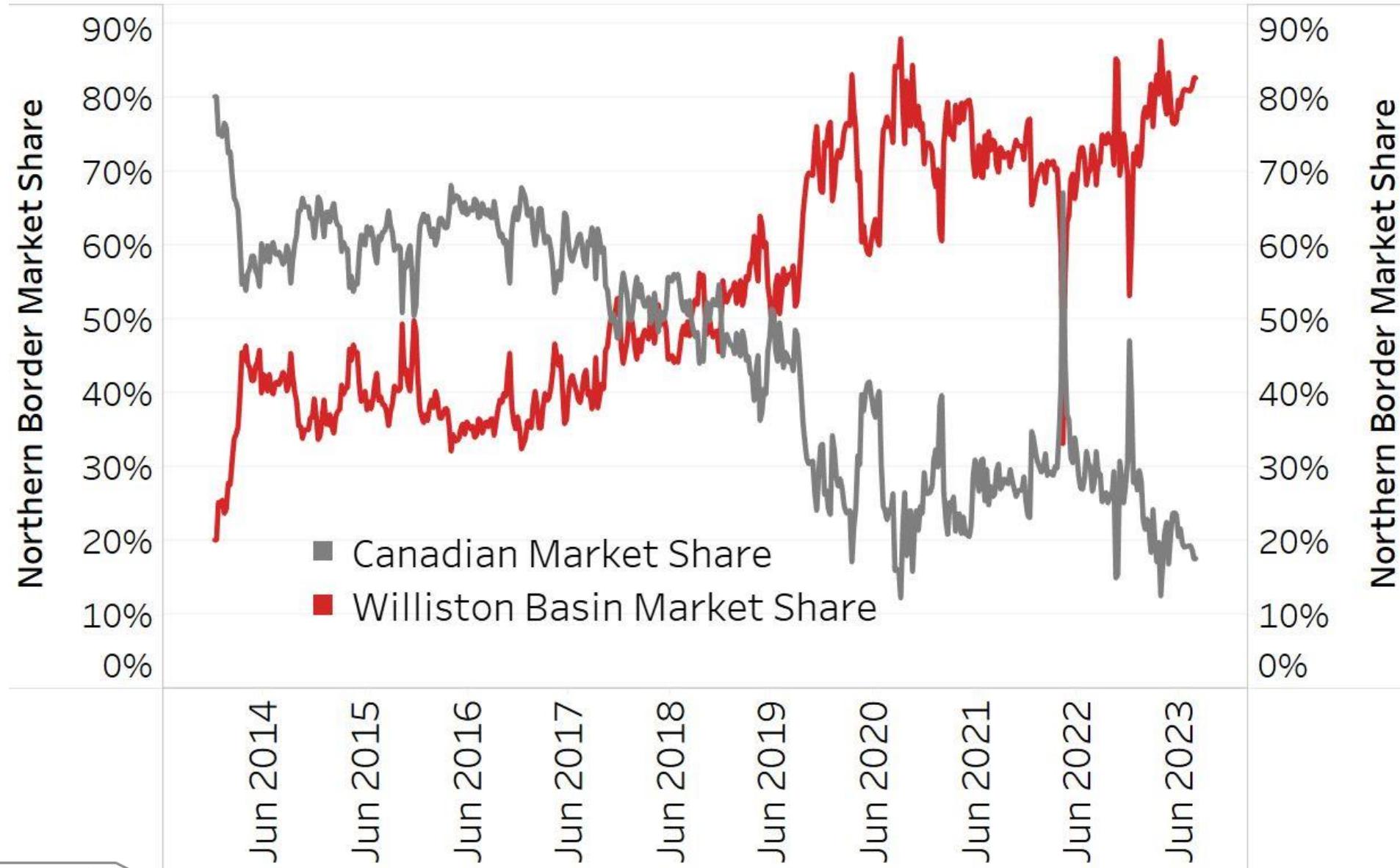
# Bakken Natural Gas Infrastructure



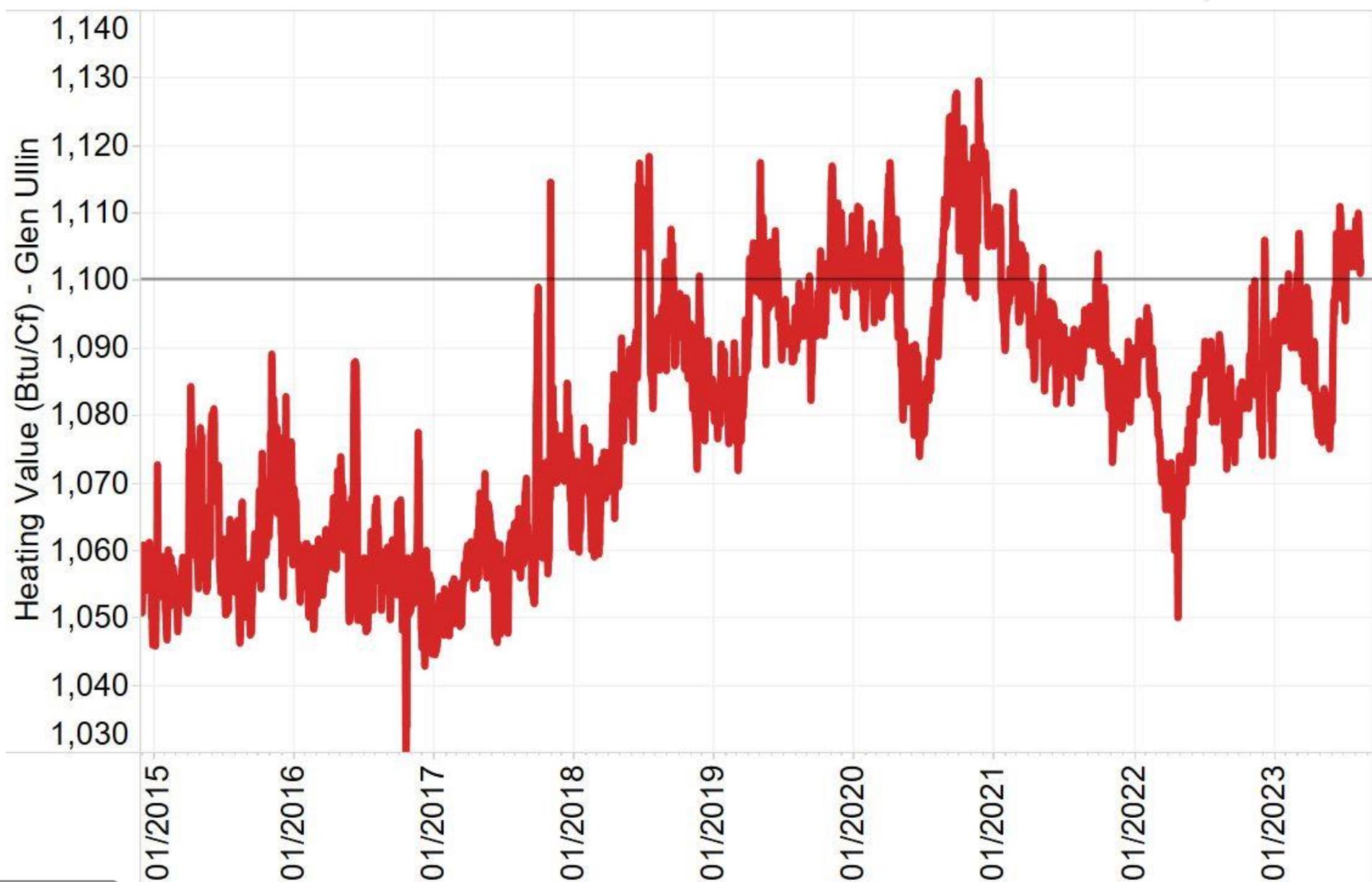
# Bakken Natural Gas Infrastructure



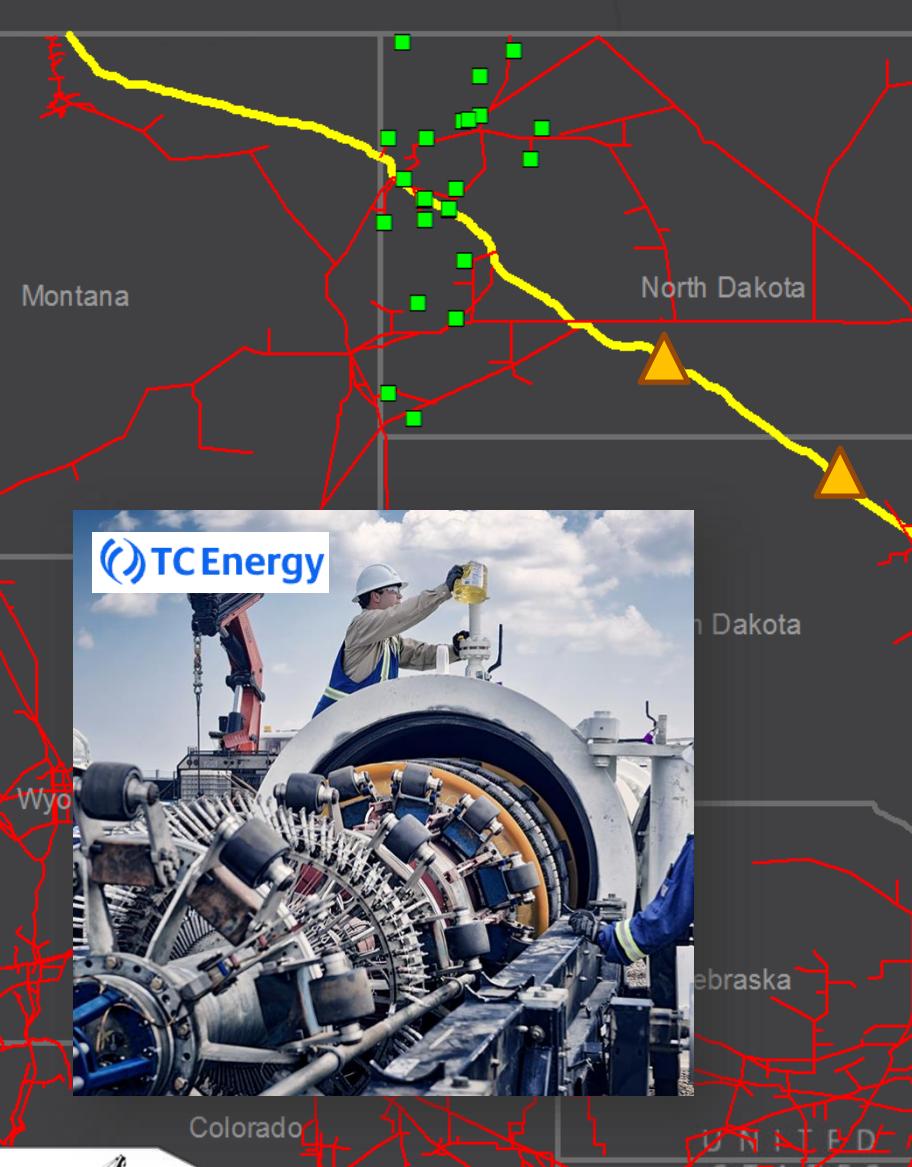
# Northern Border Pipeline Market Share



# Northern Border BTU at Glen Ullin, ND

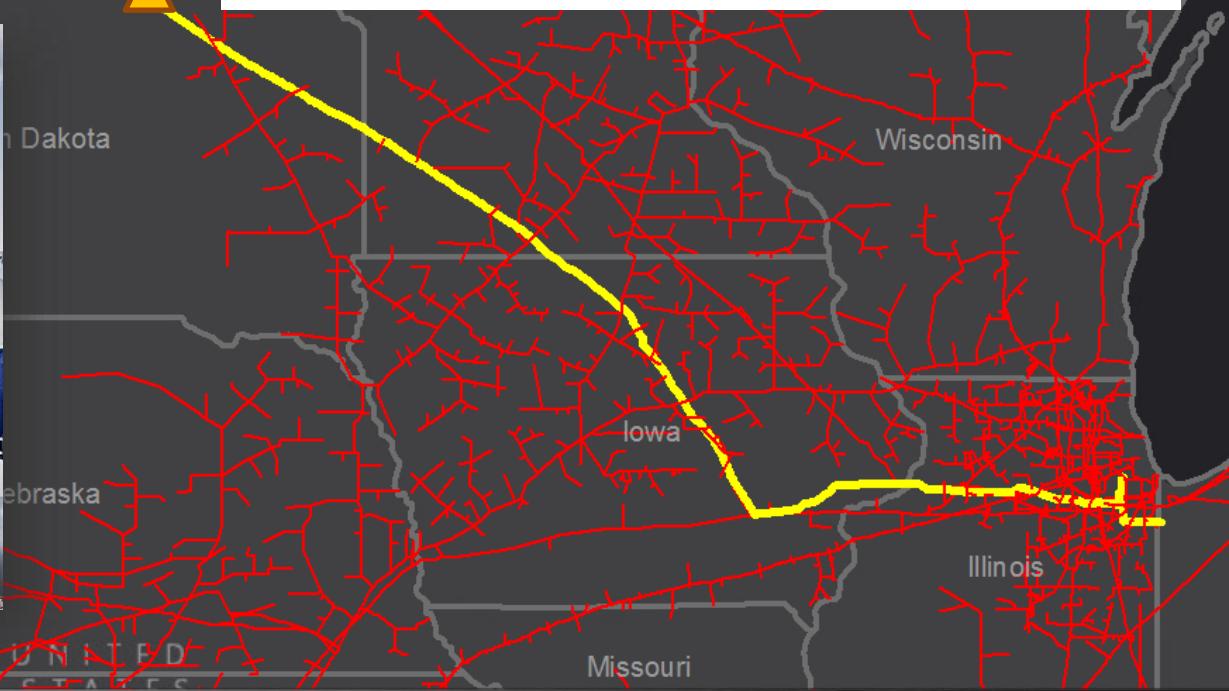
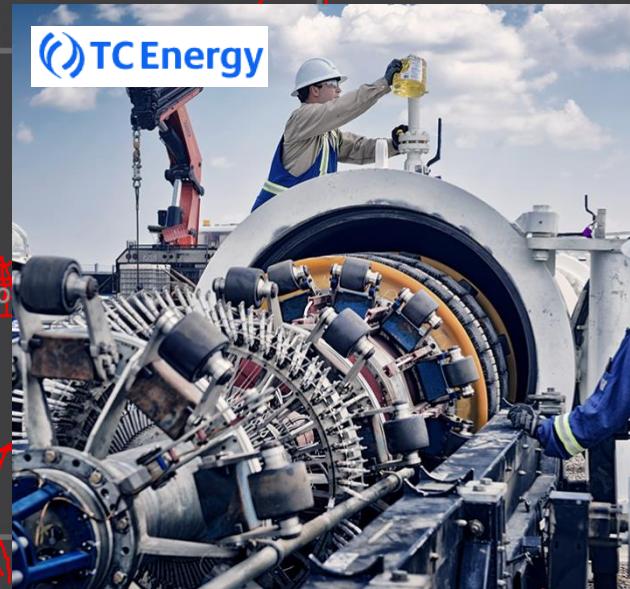


# St. Anthony to Wetonka Pig Runs

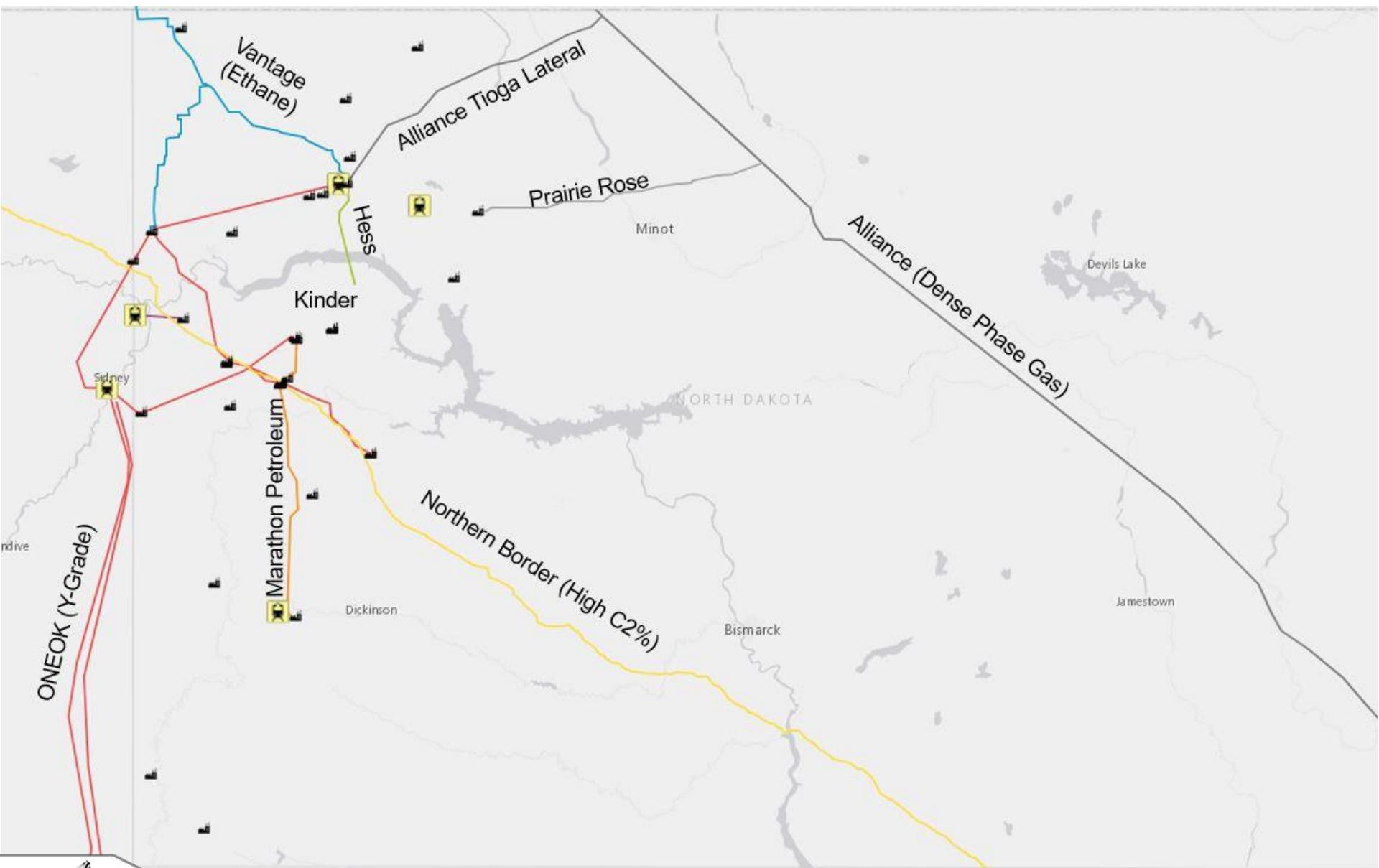


**Planned Capacity Reduction**  
Sep 12 – Cleaning Tool Run  
Capacity Reduced by 235 MMCFD

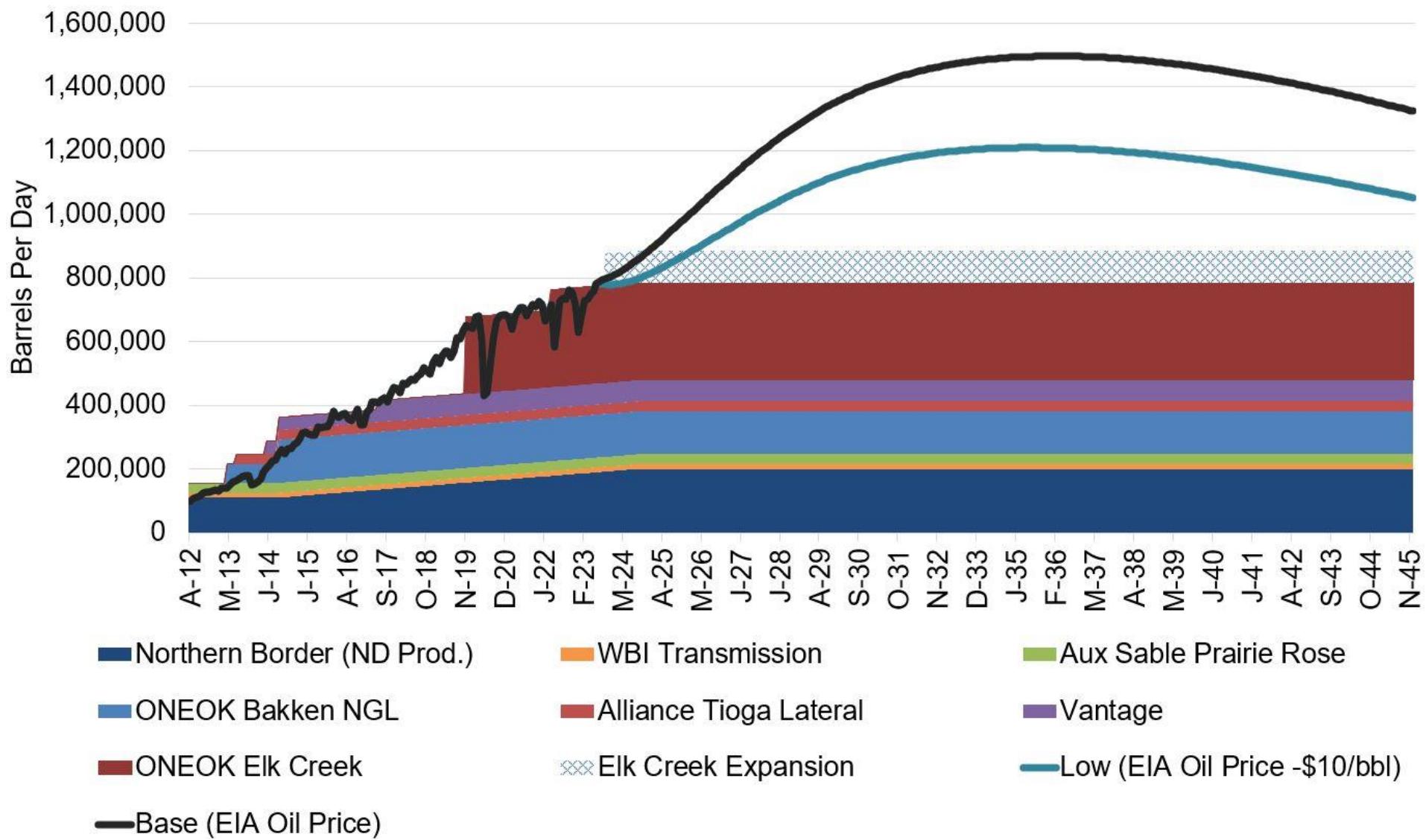
Sep 14 – Magnetic Flux Leakage (MFL) Tool Run (“Smart Pig”)  
Capacity Reduced by 235 MMCFD



# NGL Pipeline & Rail Infrastructure



# NGL Pipeline Takeaway Options\*



# Contact Information

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JJ Kringstad - North Dakota Pipeline Authority

Websites:

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

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

