



April 2023 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
April 17, 2023

US Williston Basin Oil Production - 2022

MONTH	ND	Eastern MT*	SD	TOTAL
January	1,091,932	51,895	2,709	1,146,536
February	1,095,458	51,165	2,742	1,149,365
March	1,129,880	54,580	2,709	1,187,169
April	908,339	54,118	2,338	964,795
May	1,062,157	52,499	2,648	1,117,304
June	1,099,408	63,258	2,764	1,165,430
July	1,073,610	60,602	2,774	1,136,986
August	1,075,289	60,514	2,756	1,138,559
September	1,121,063	58,102	2,679	1,181,845
October	1,121,754	53,983	2,621	1,178,357
November	1,098,389	56,155	2,682	1,157,227
December	957,864		2,199	

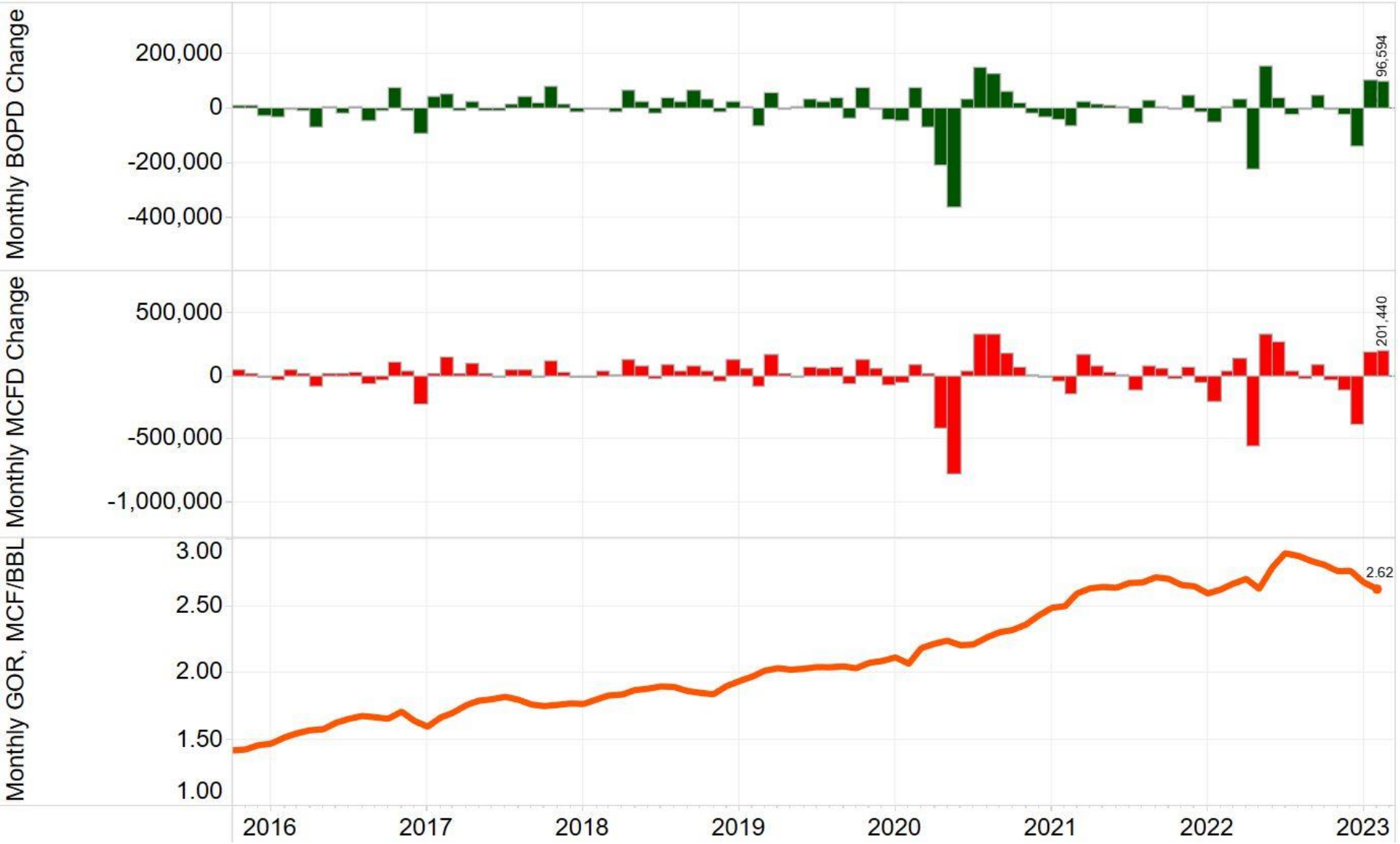


US Williston Basin Oil Production - 2023

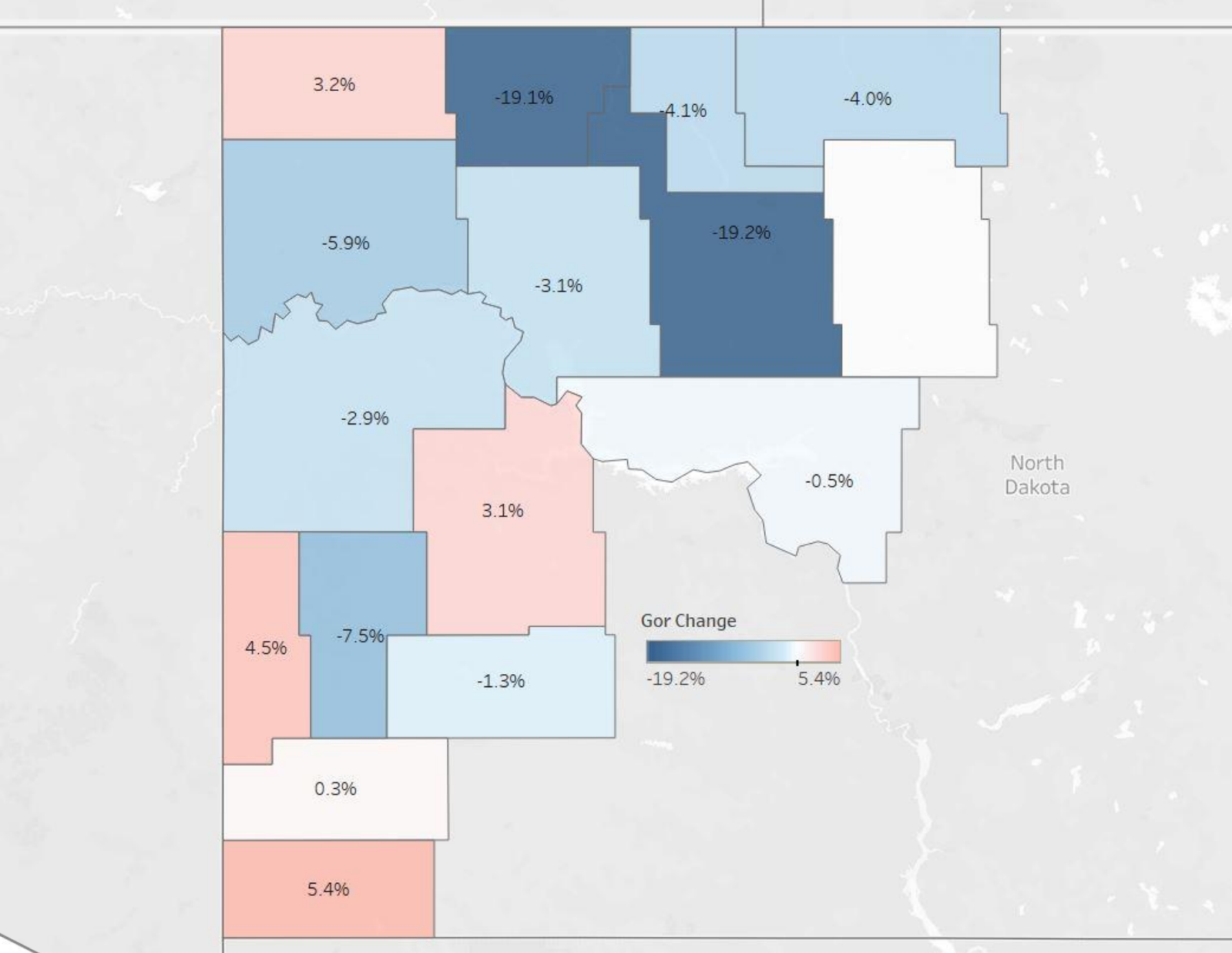
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,060,708		2,610	
February	1,157,303			
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				



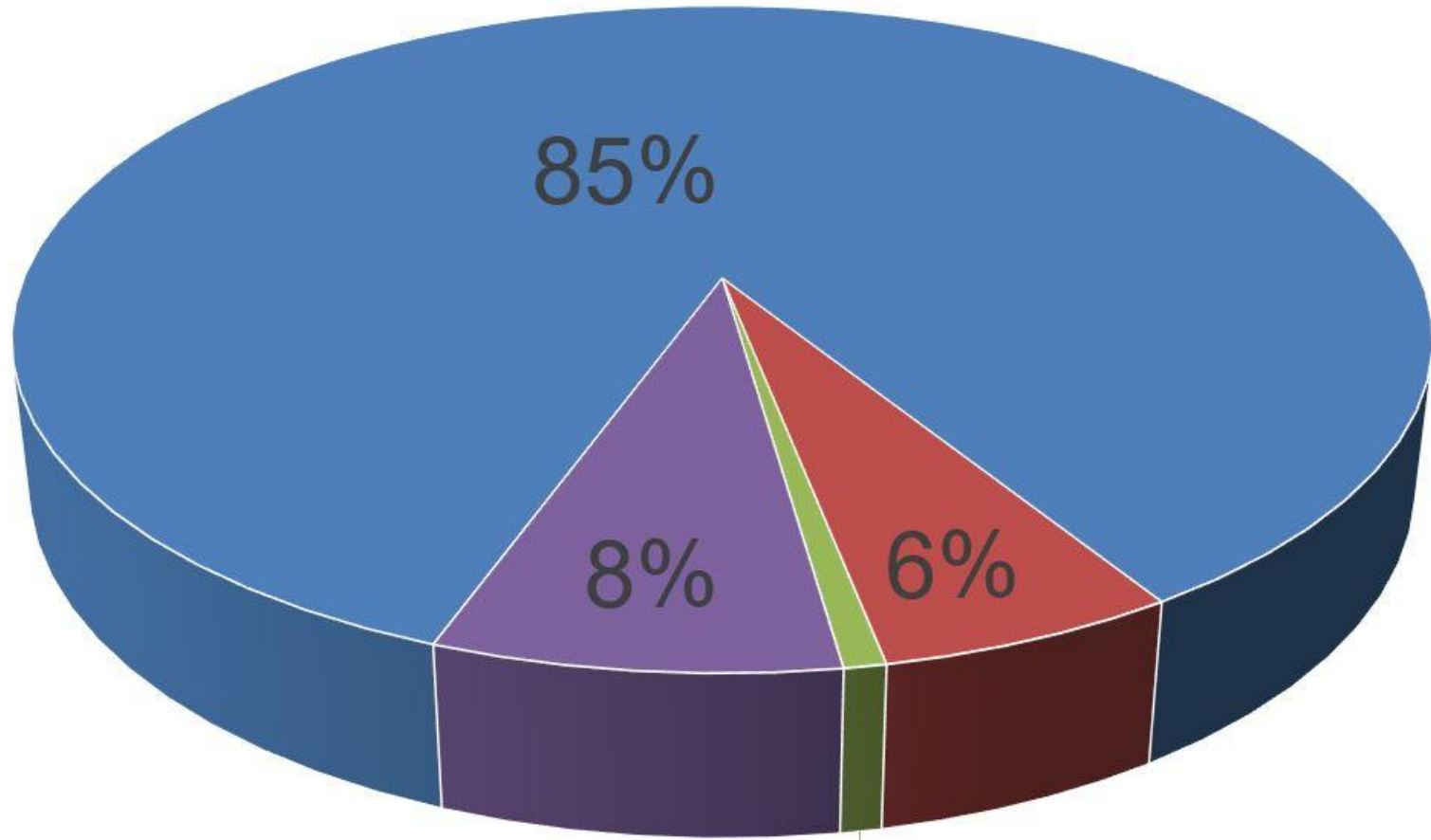
North Dakota Monthly Production Change



GOR Change (Jan-23 to Feb-23)



Estimated Williston Basin Oil Transportation



■ Pipeline Export

1%

■ Refined

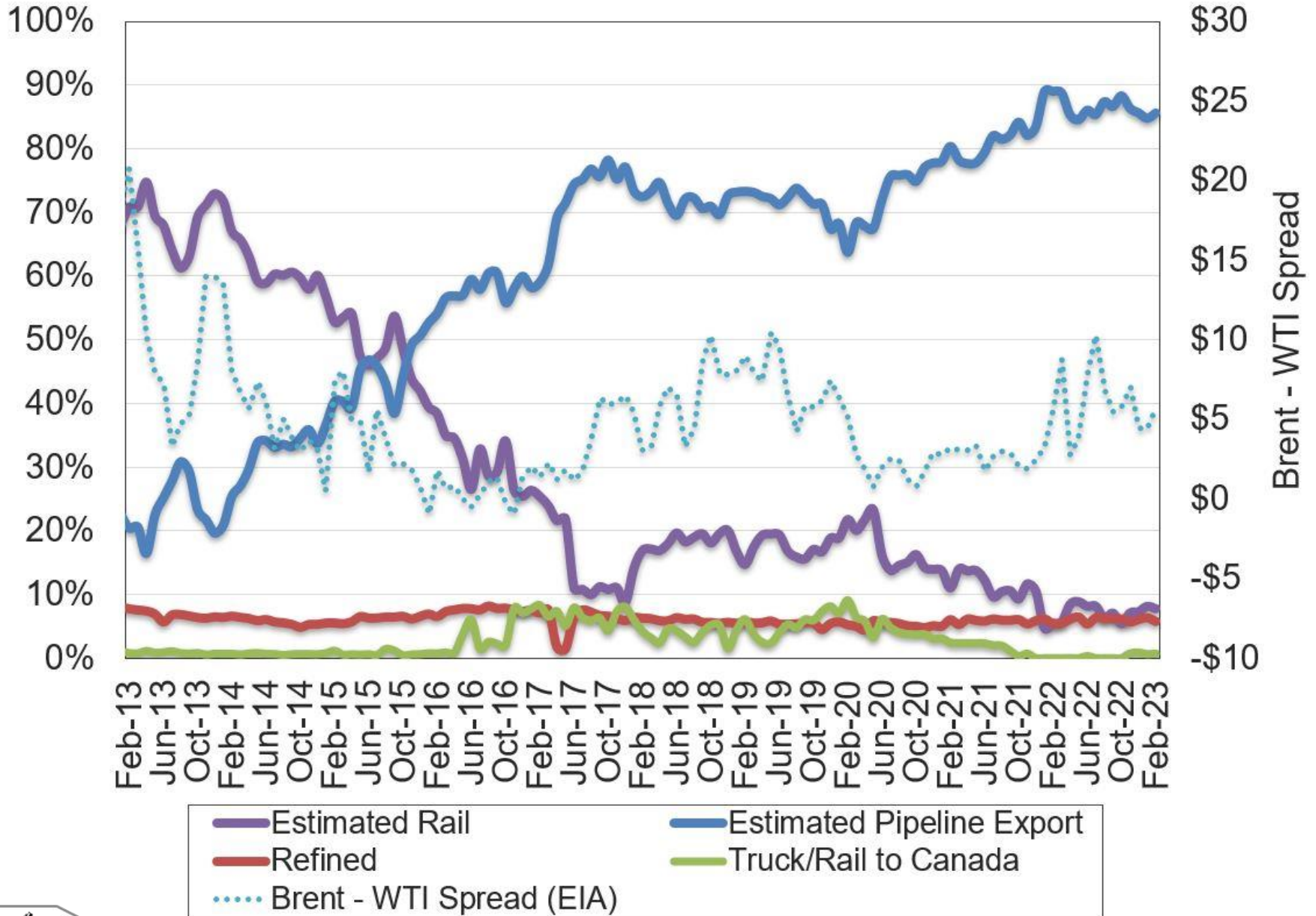
■ Truck/Rail to Canada

■ Estimated Rail

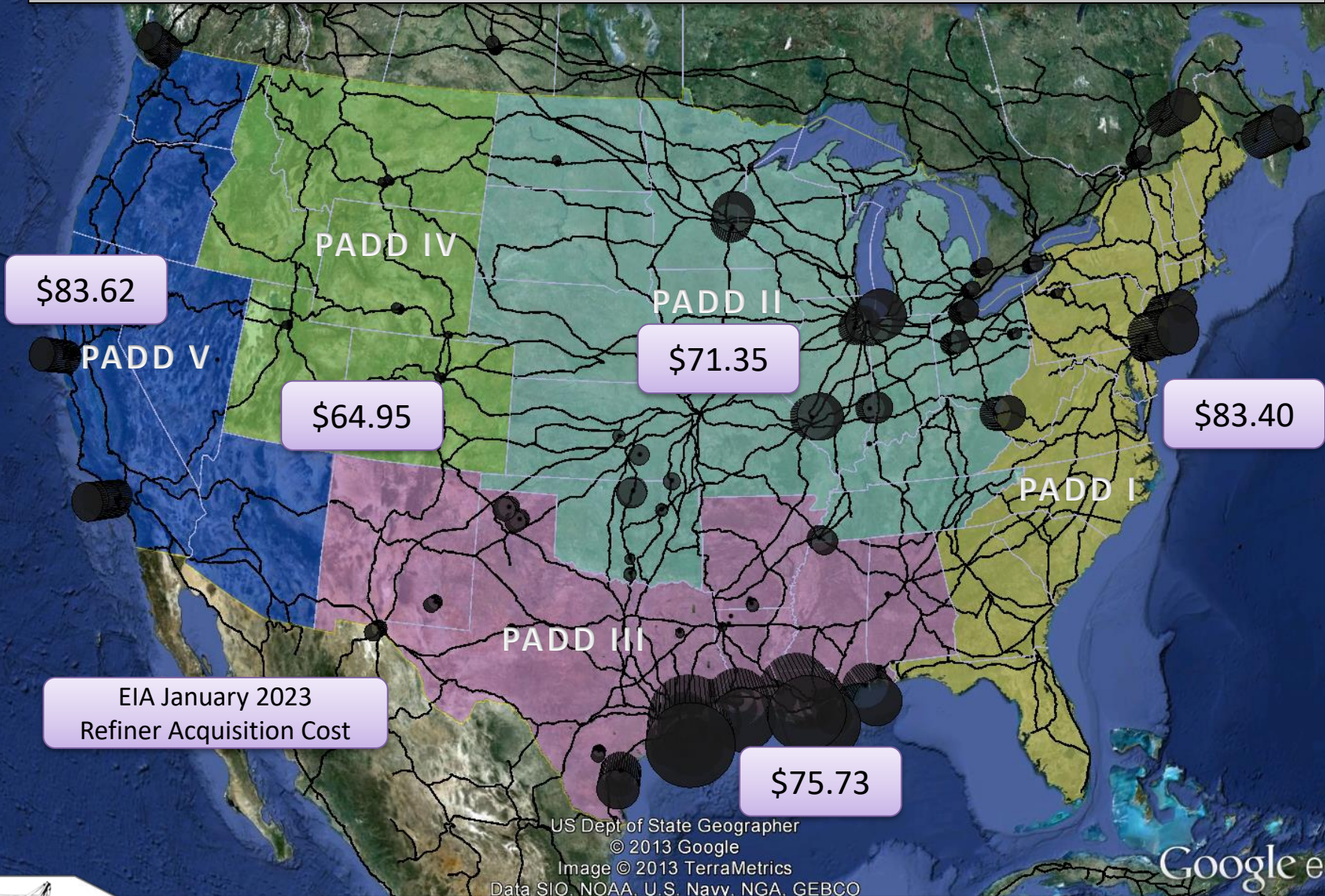
February 2023 ⁶



Estimated Williston Basin Oil Transportation



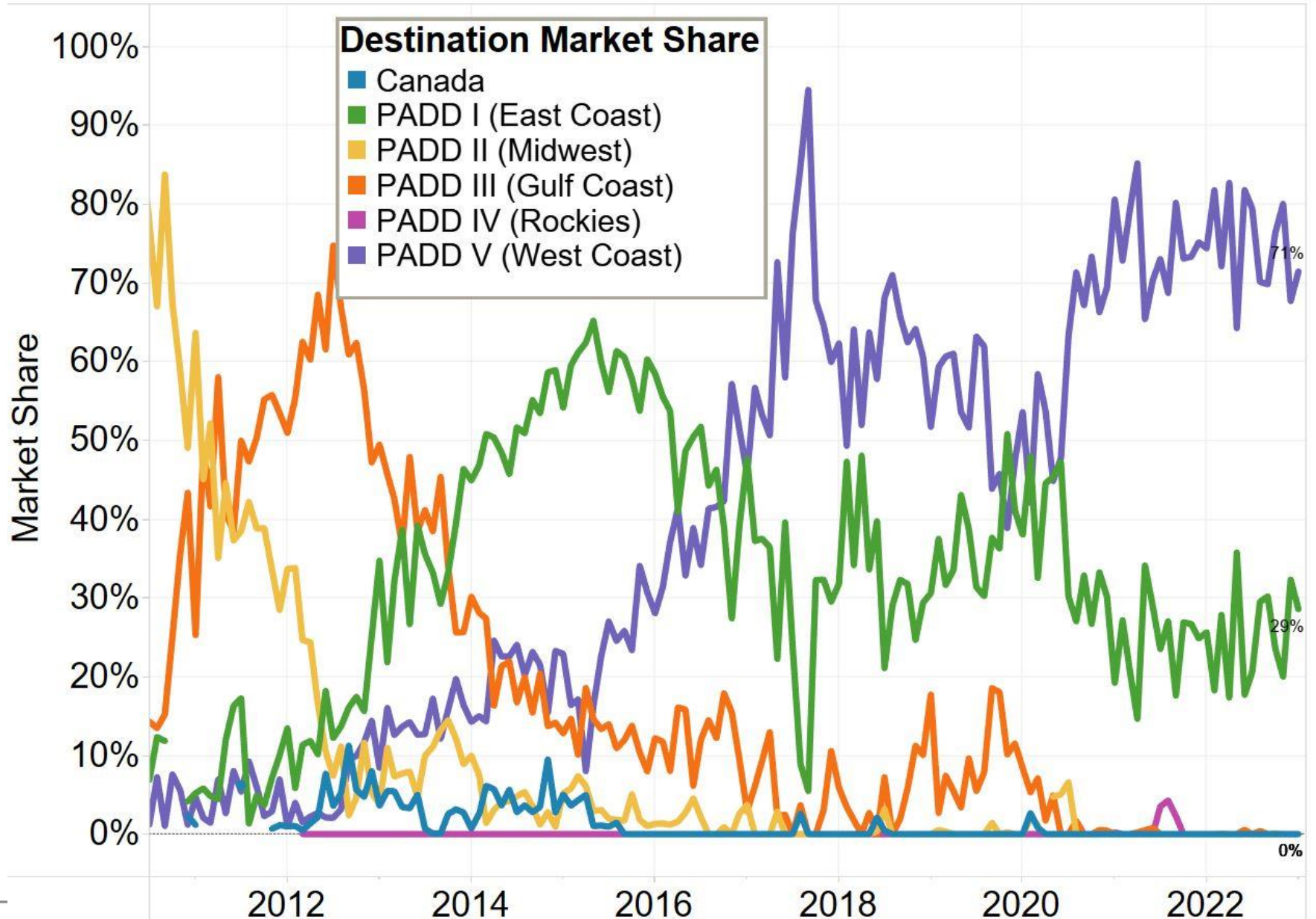
Major Rail Lines and Refineries



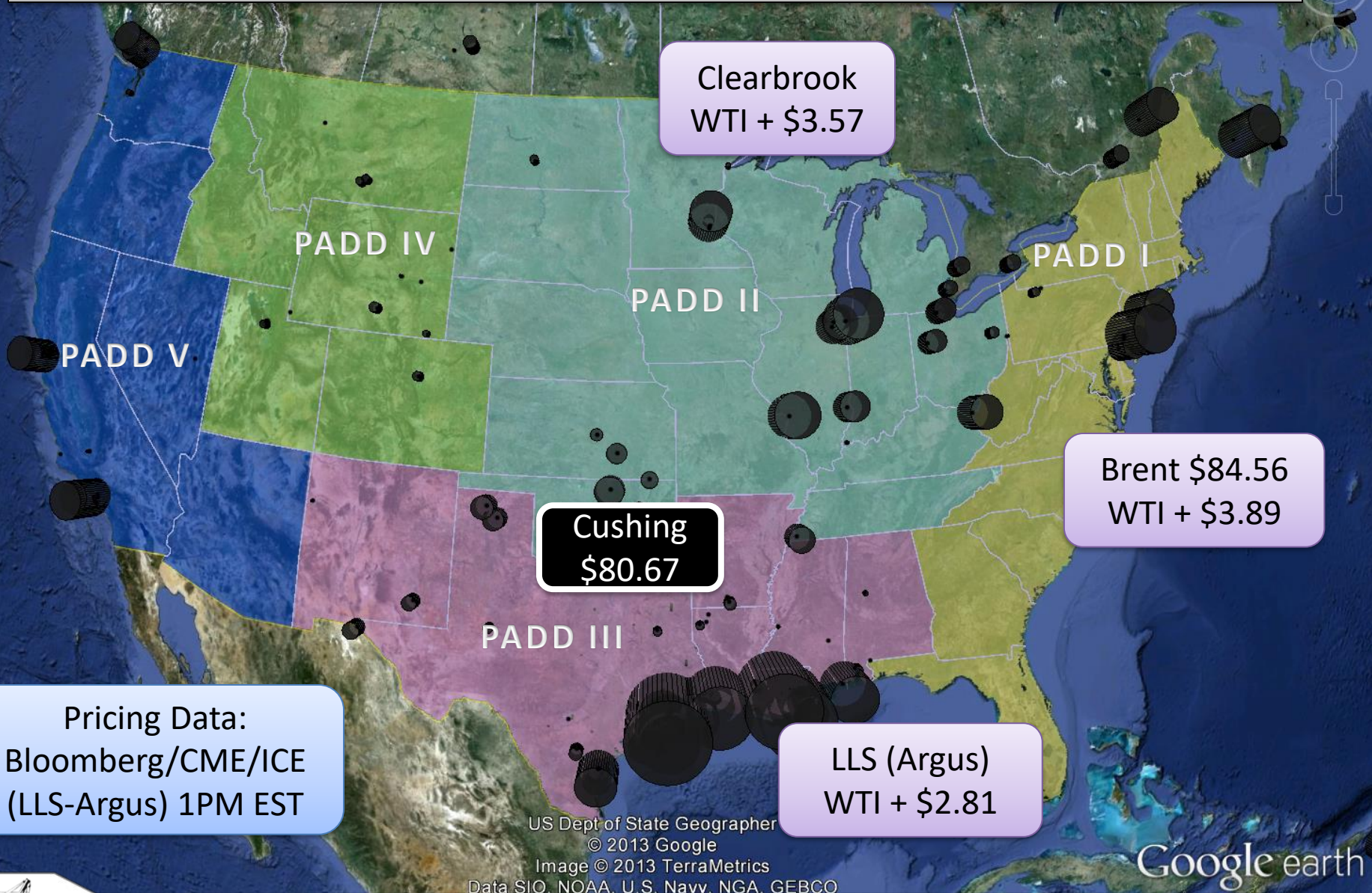
Estimated ND Rail Export Volumes



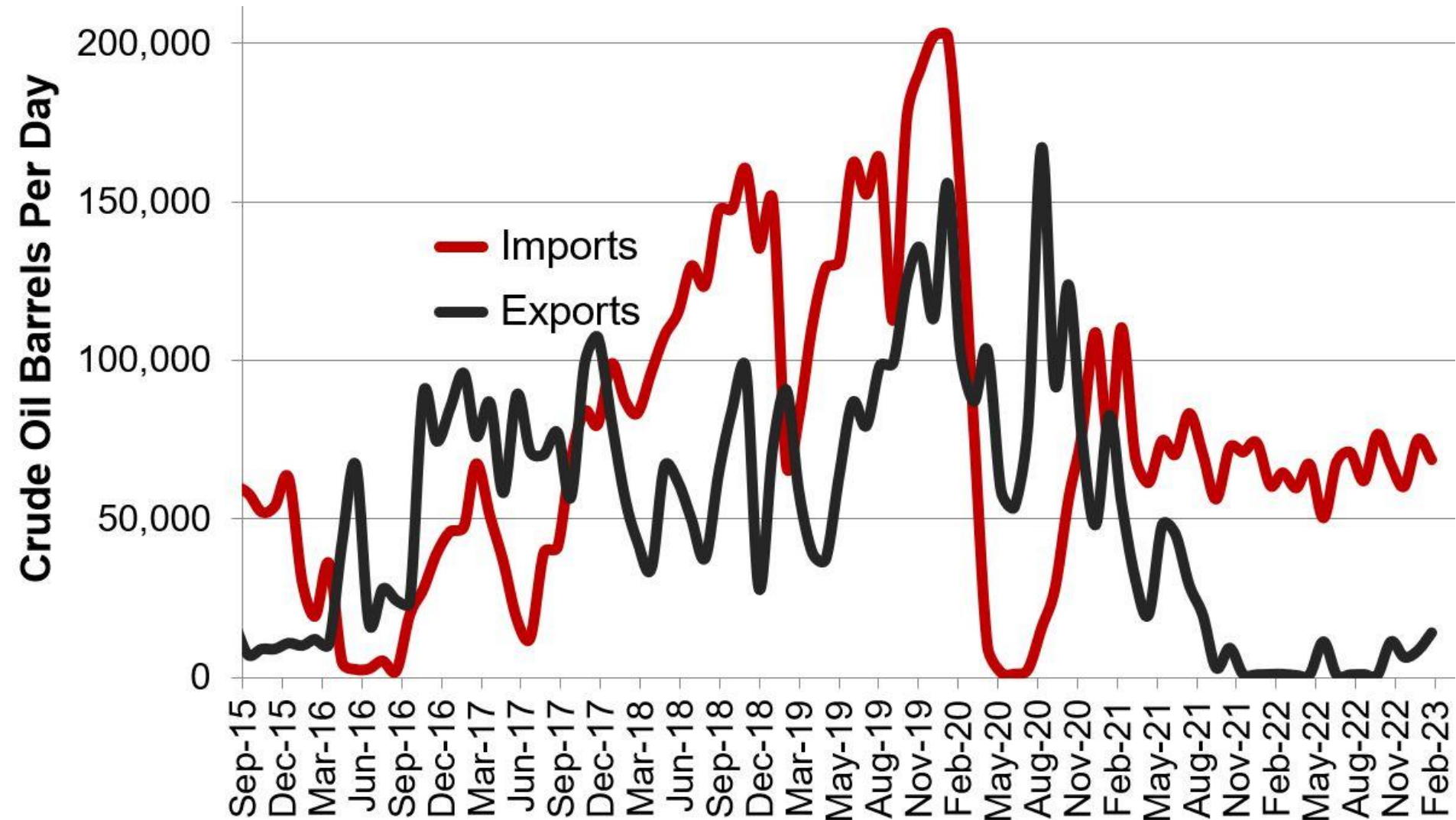
Rail Destinations Market Share (Jan. 2023)



Crude Oil Prices – Apr. 17, 2023



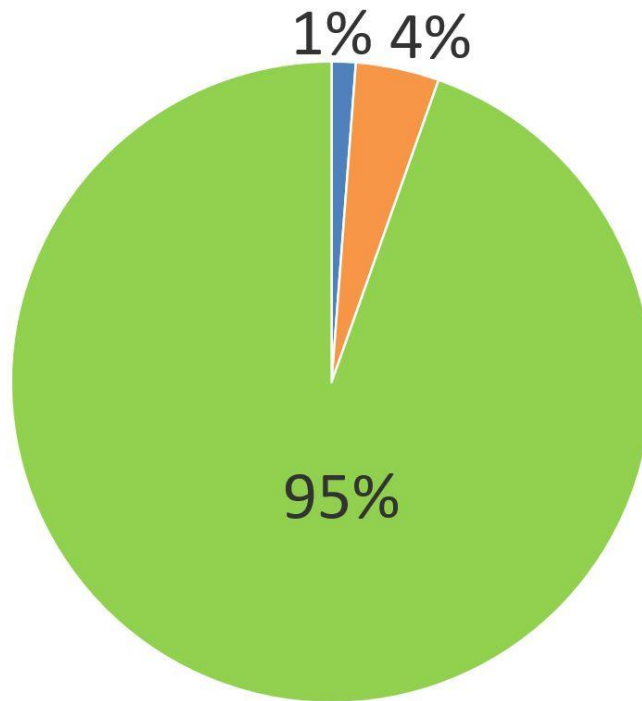
Williston Basin Truck/Rail Imports and Exports with Canada



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



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

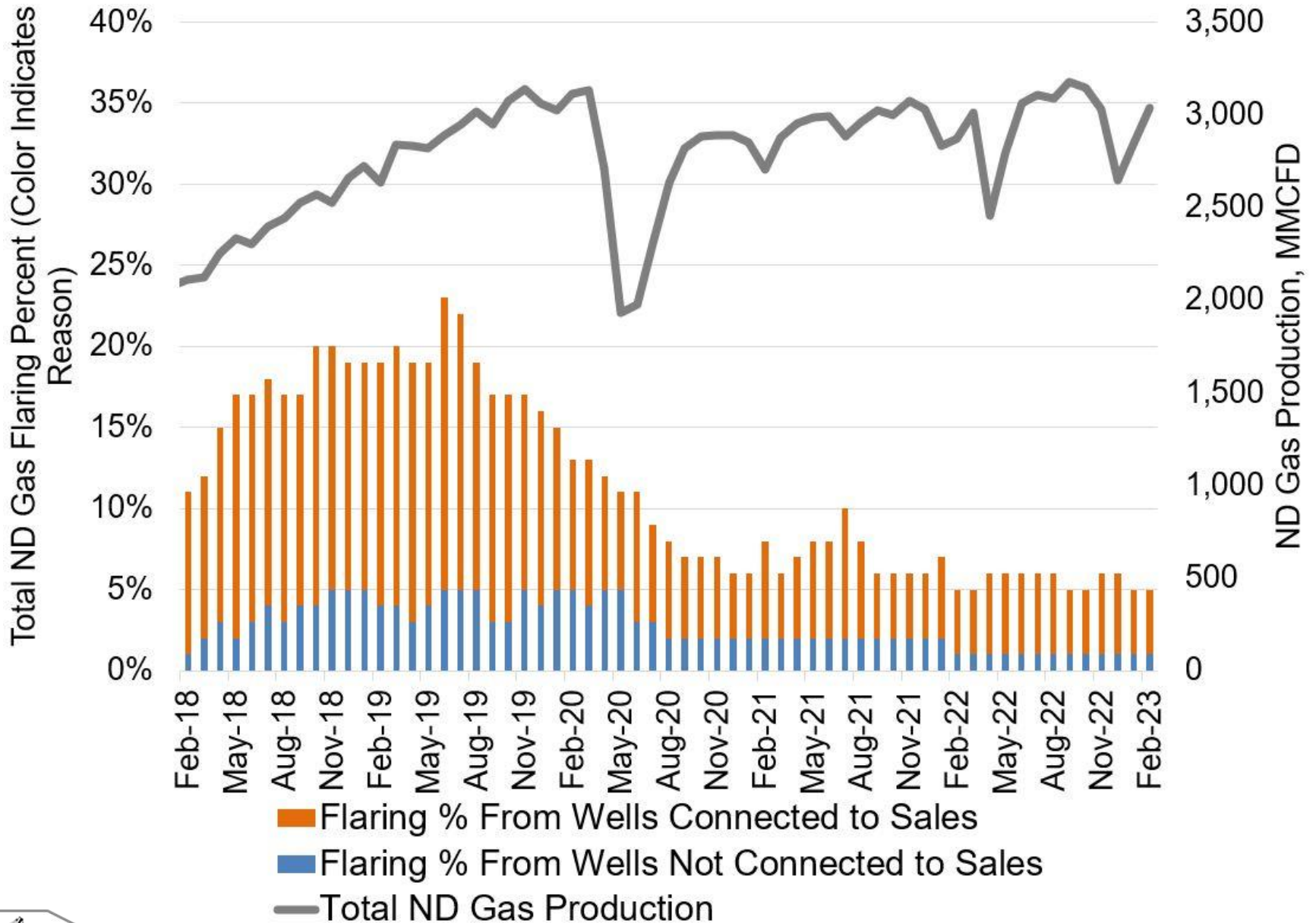
Blue – Lack of pipelines

Orange – Challenges on existing infrastructure

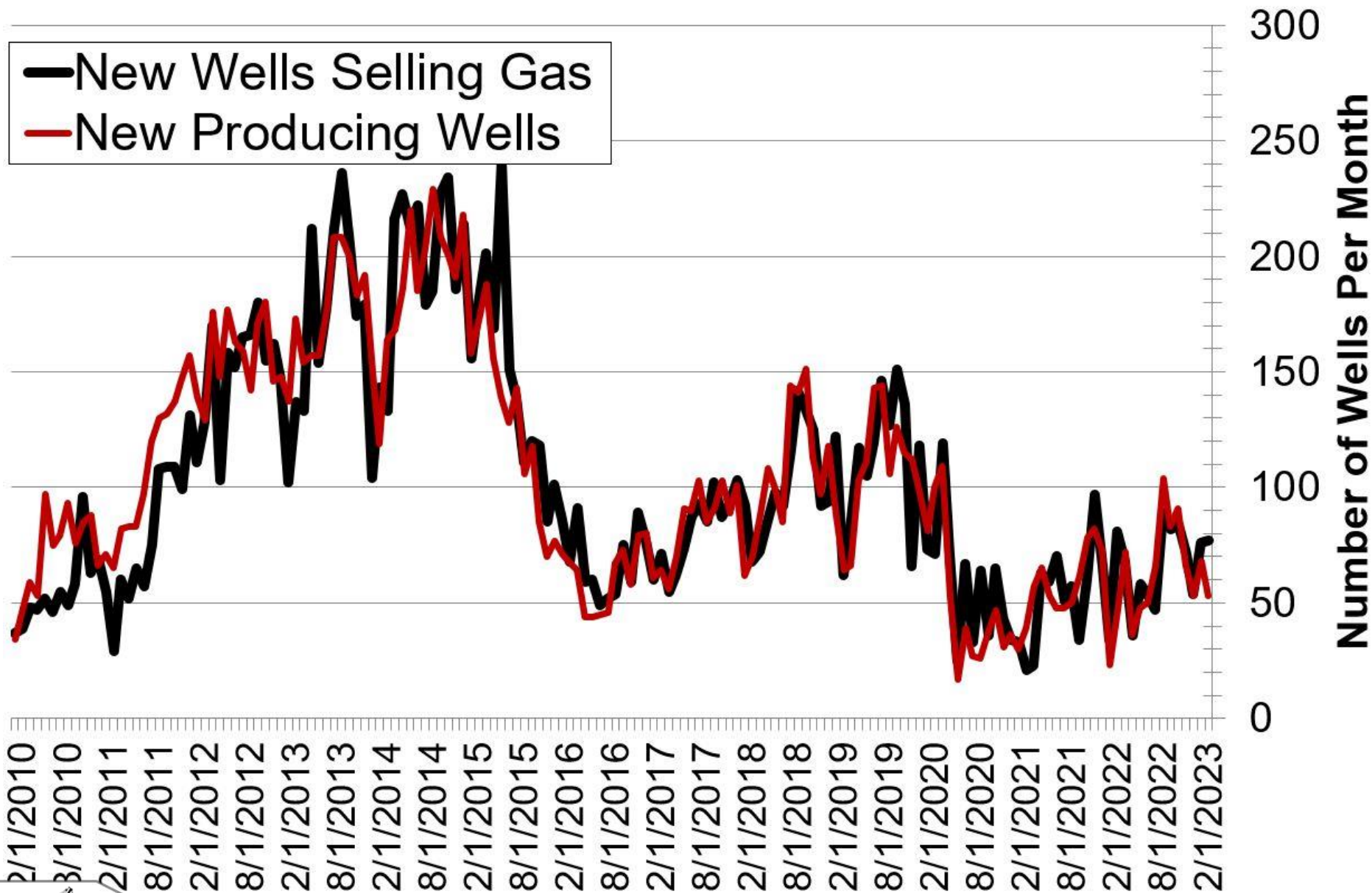
Feb. 2023 Data – Non-Confidential Wells



Solving the Flaring Challenge



Solving the Flaring Challenge



EIA Oil Price Forecast: Apr. 2023

West Texas Intermediate (WTI) crude oil price

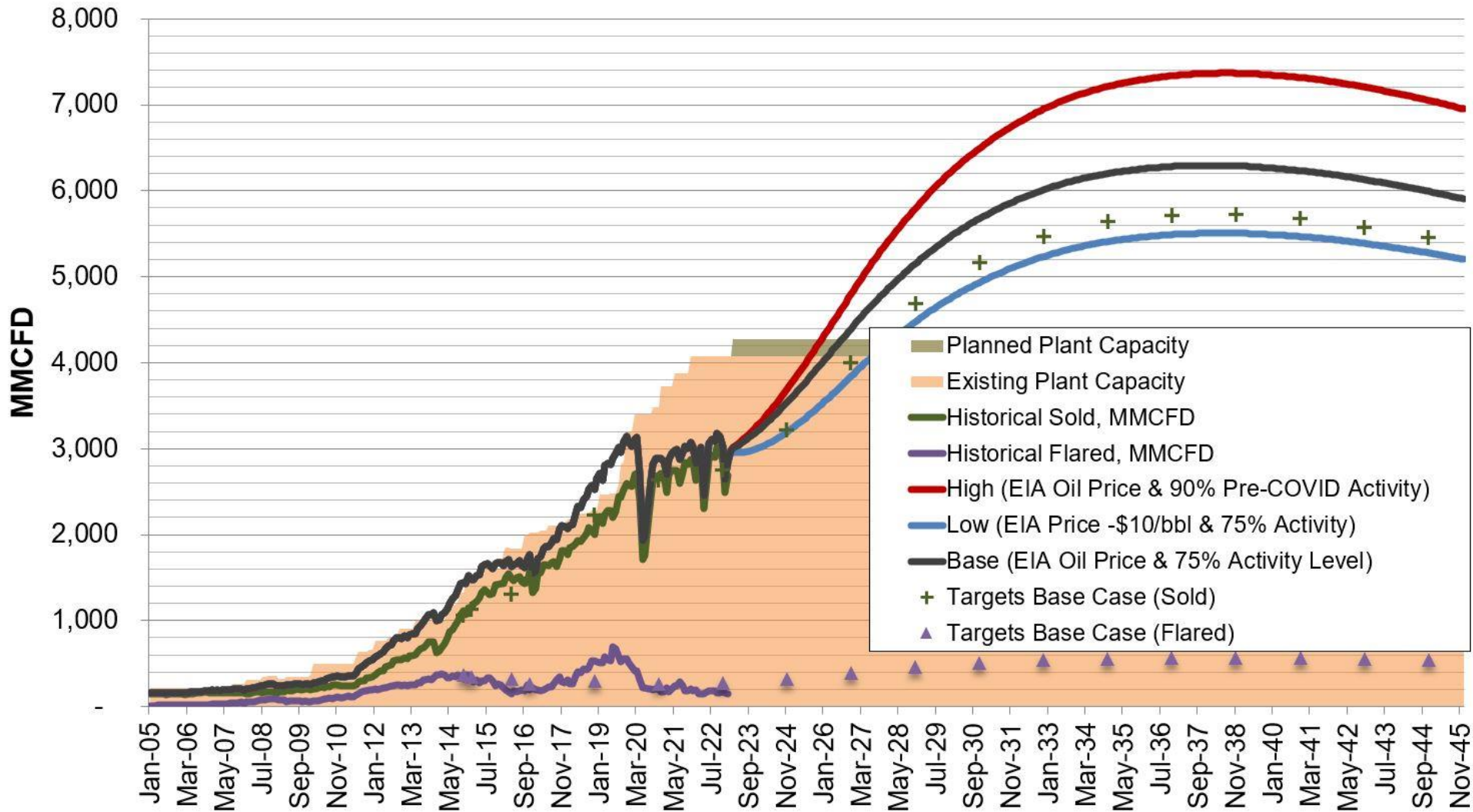
dollars per barrel



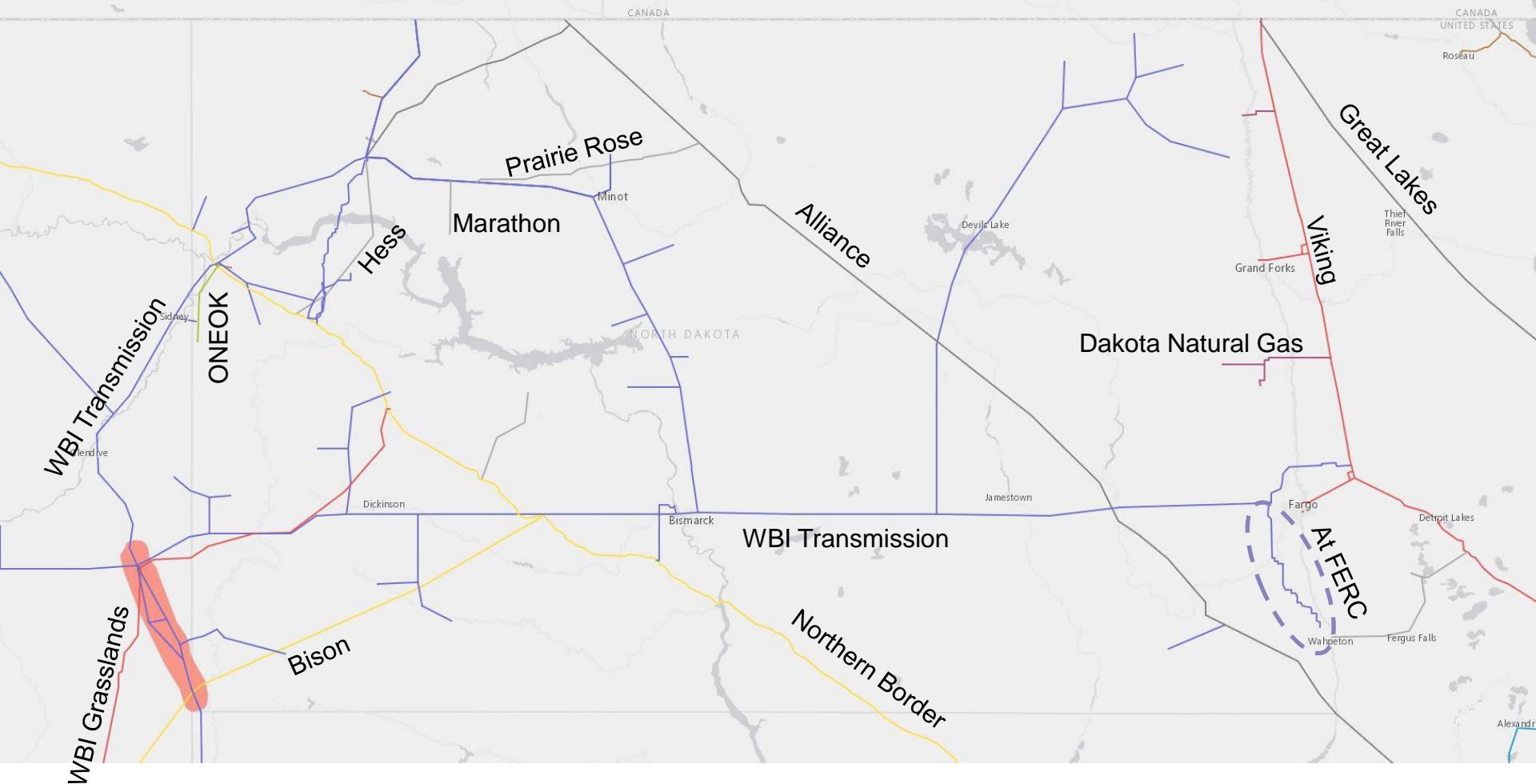
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, April 2023



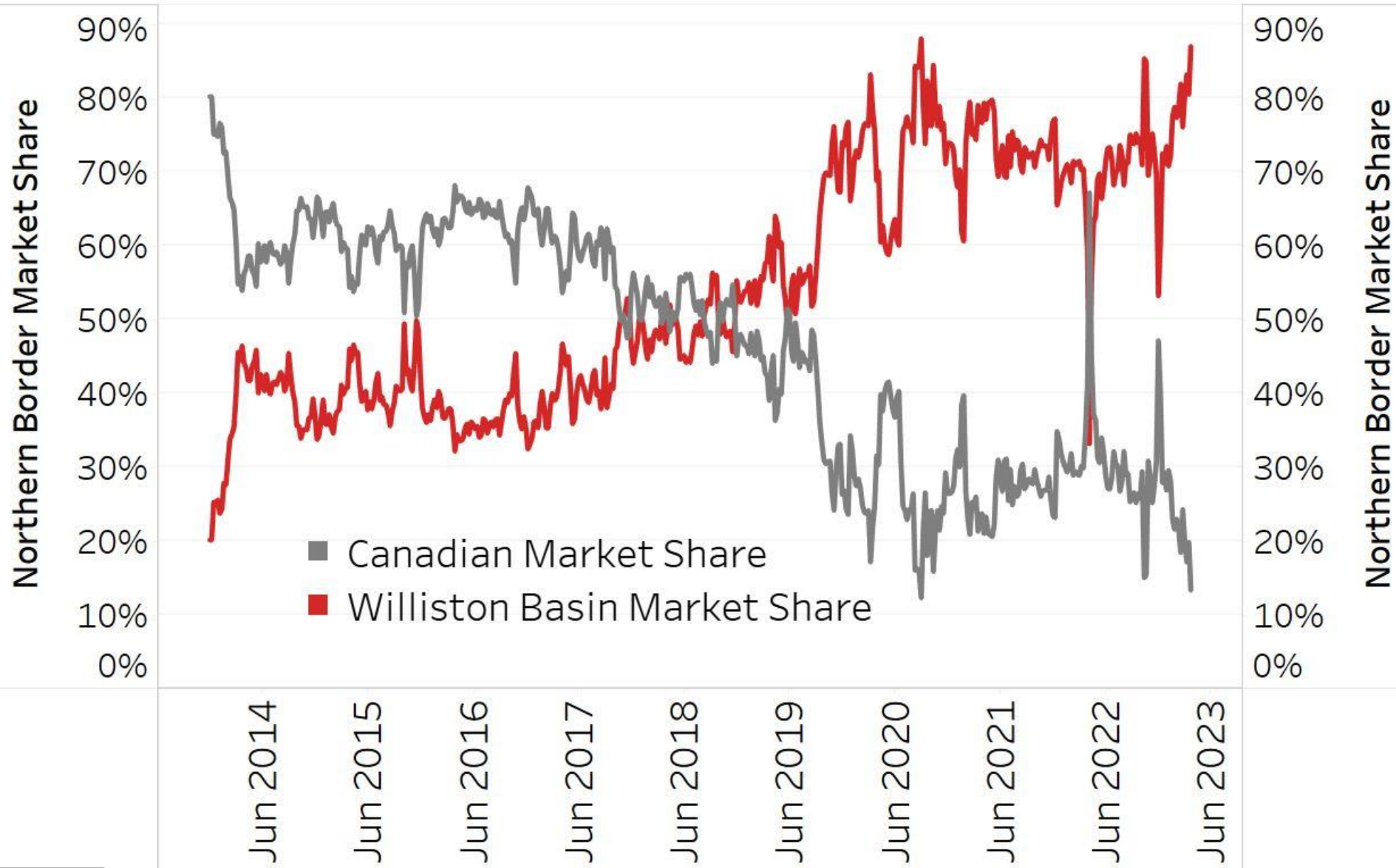
Solving the Flaring Challenge



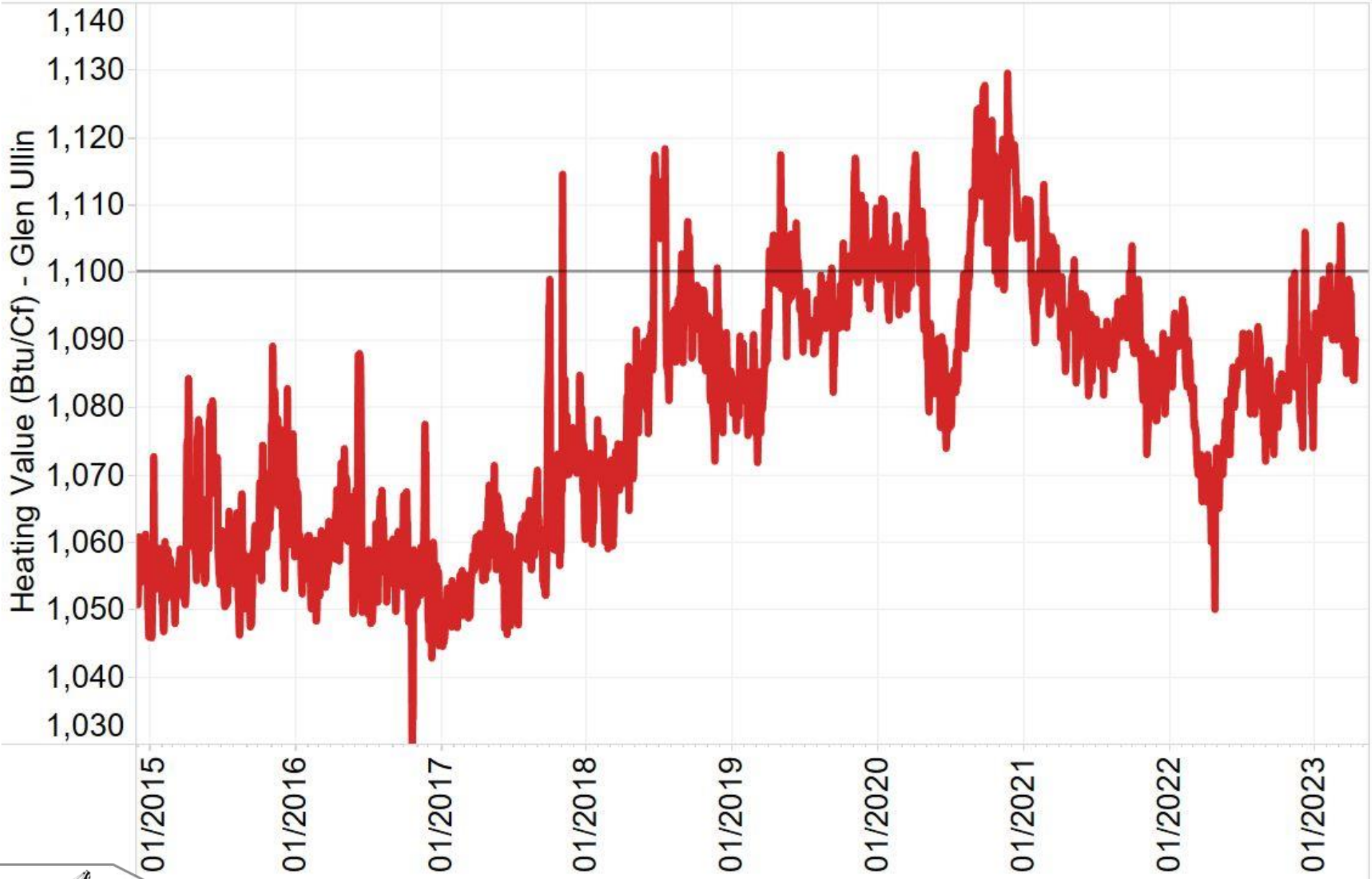
Bakken Natural Gas Infrastructure



Northern Border Pipeline Market Share

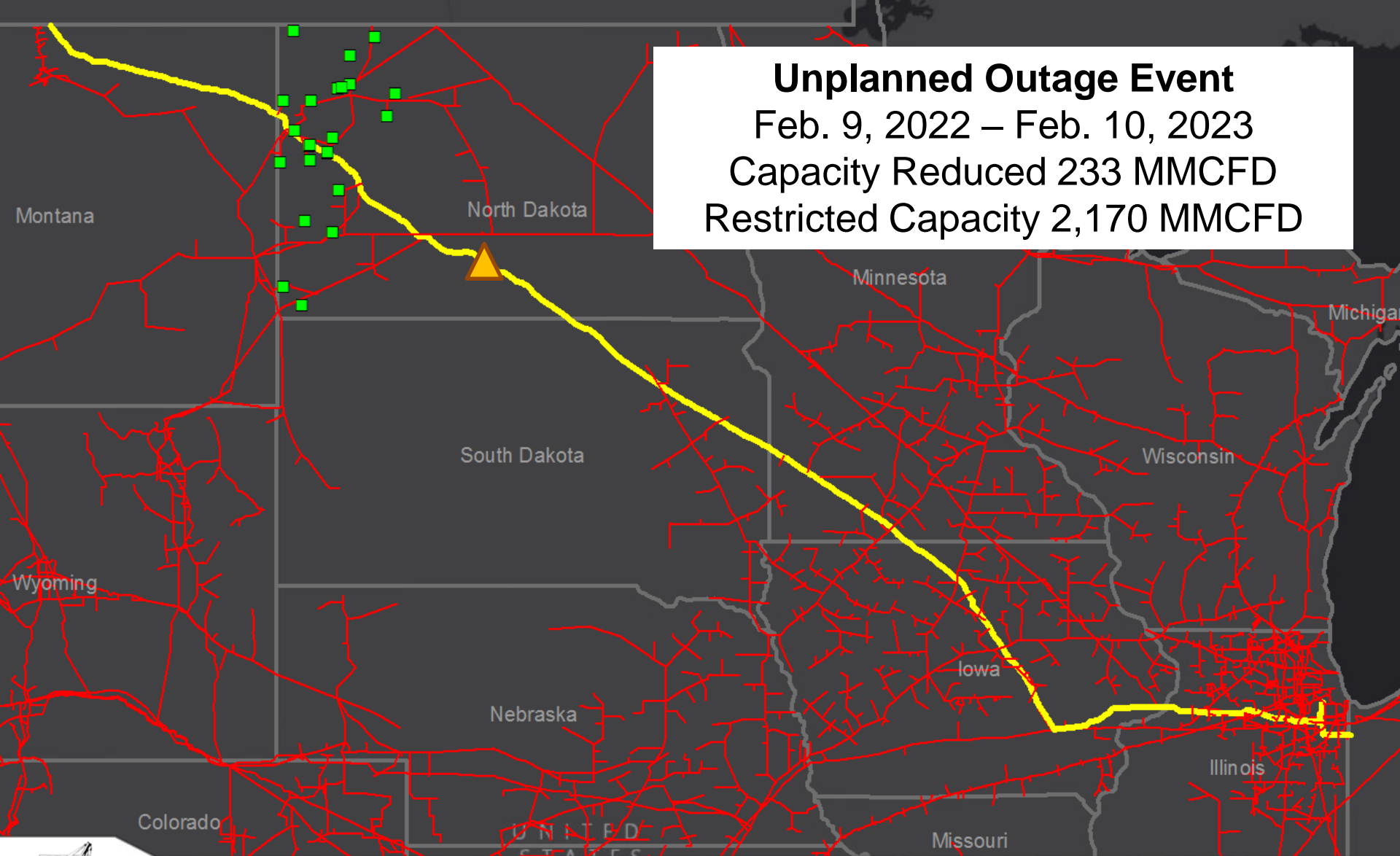


Northern Border BTU at Glen Ullin, ND

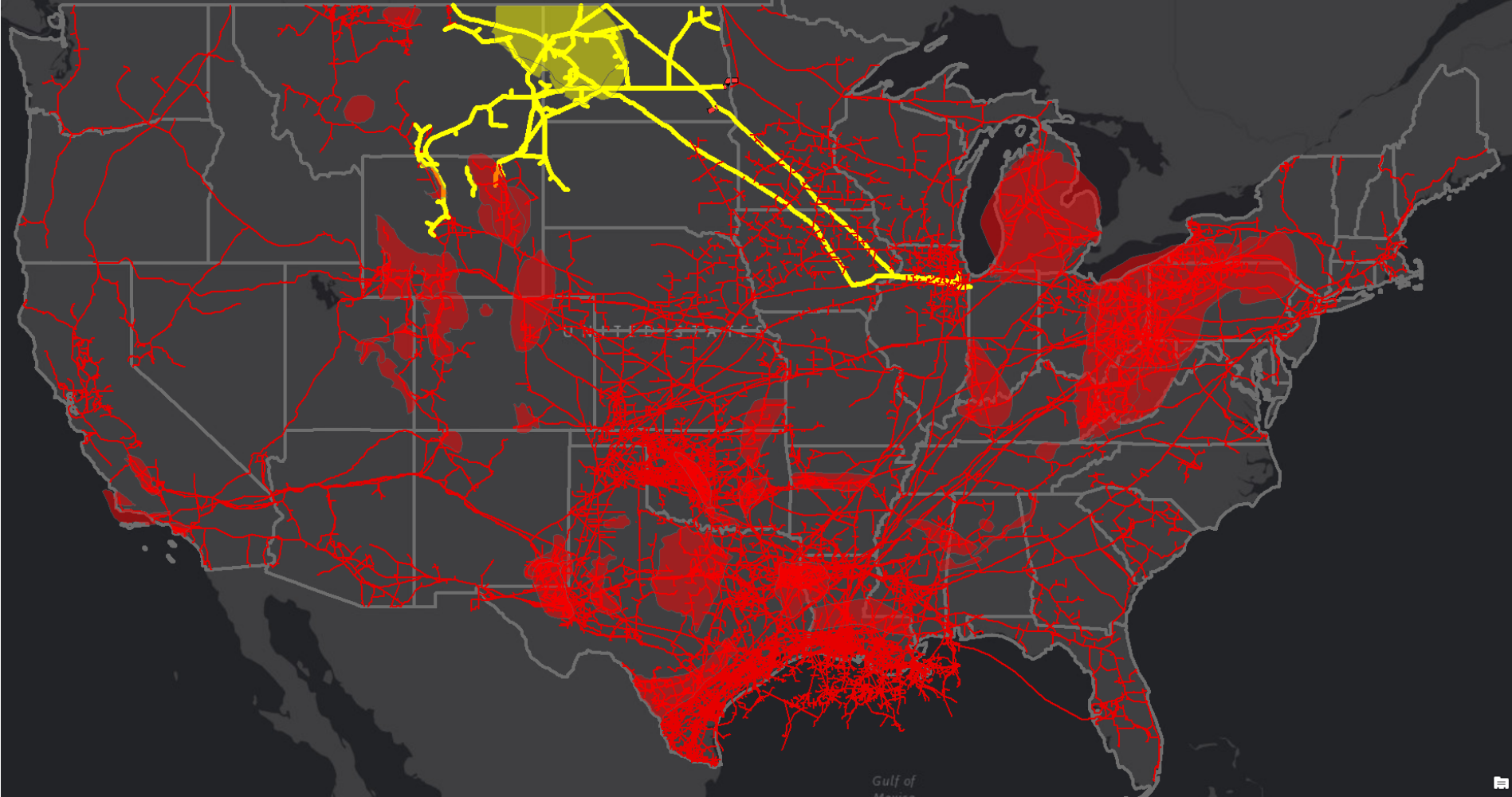


St. Anthony Compressor Outage

Unplanned Outage Event
Feb. 9, 2022 – Feb. 10, 2023
Capacity Reduced 233 MMCFD
Restricted Capacity 2,170 MMCFD



Bakken Natural Gas Infrastructure



Contact Information

Justin J. Kringstad, Director
North Dakota Pipeline Authority

600 E. Boulevard Ave. Dept. 405
Bismarck, ND 58505-0840

Phone: (701)220-6227

Fax: (701)328-2820

E-mail: jjkringstad@ndpipelines.com

Websites:

www.pipeline.nd.gov

www.northdakotapipelines.com



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