



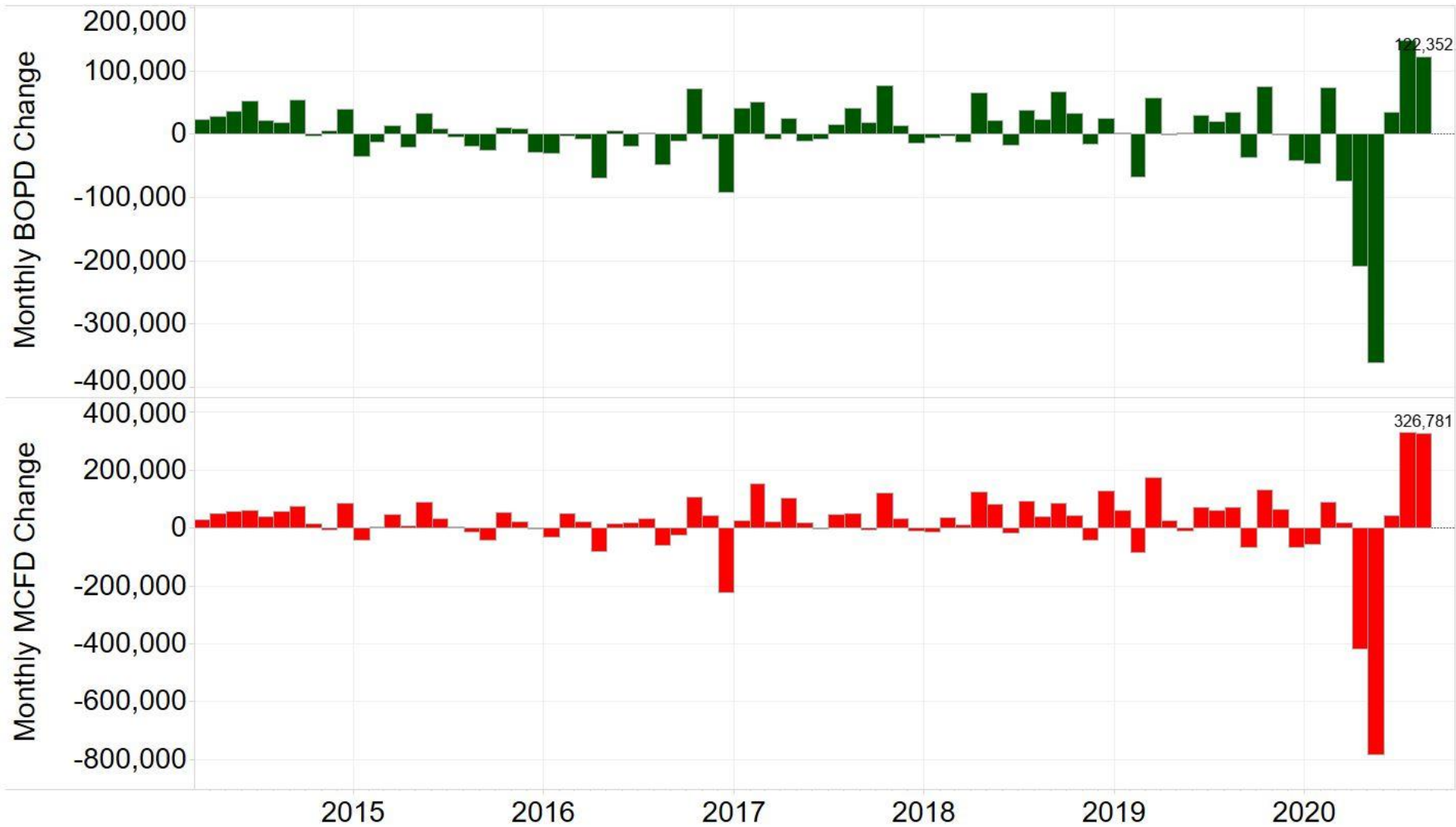
October 2020 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
October 16, 2020

US Williston Basin Oil Production - 2020

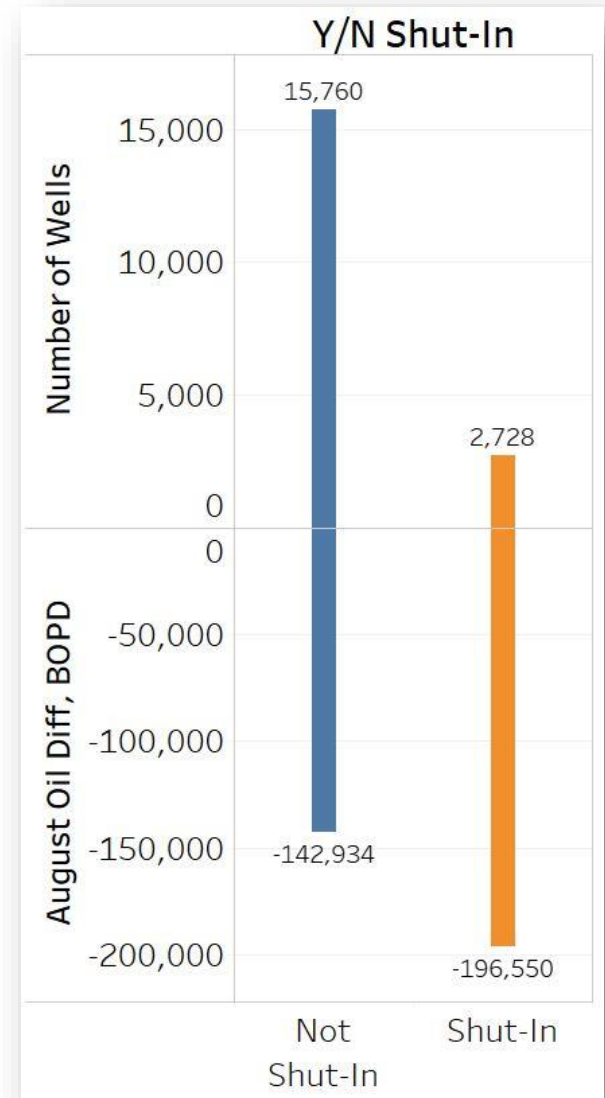
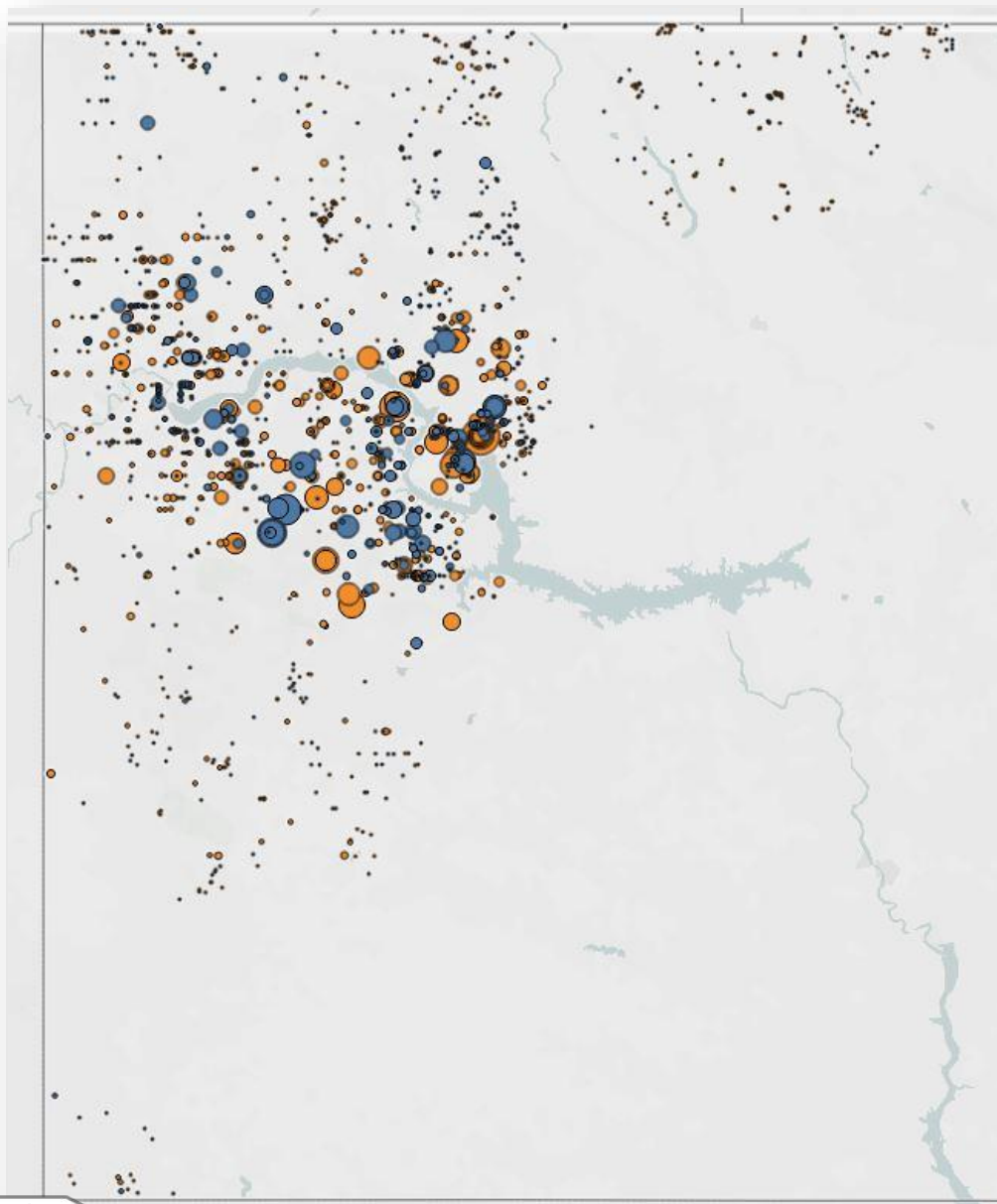
MONTH	ND	Eastern MT*	SD	TOTAL
January	1,430,614	57,411	3,091	1,491,115
February	1,504,856	55,386	3,070	1,563,312
March	1,432,756	57,691	2,946	1,493,392
April	1,222,940	49,023	2,610	1,274,573
May	860,142	36,991	2,466	899,599
June	893,738	42,659	2,680	939,077
July	1,042,081	48,168	3,435	1,093,684
August	1,164,432			
September				
October				
November				
December				



North Dakota Monthly Production Change



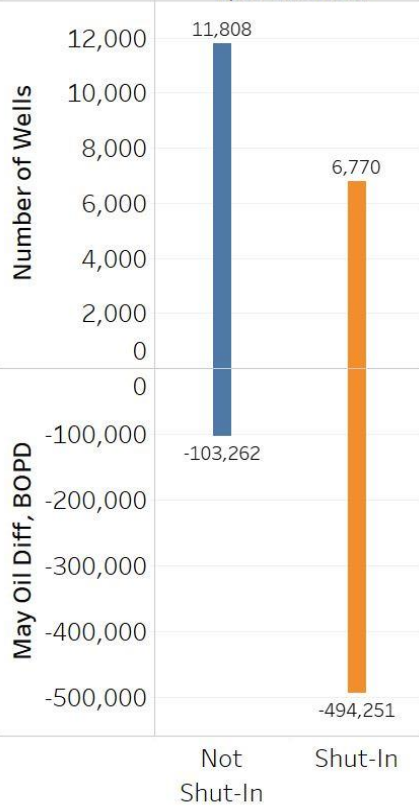
March to August 75+% M-O-M Oil Drop



May to August Shut-In Comparison

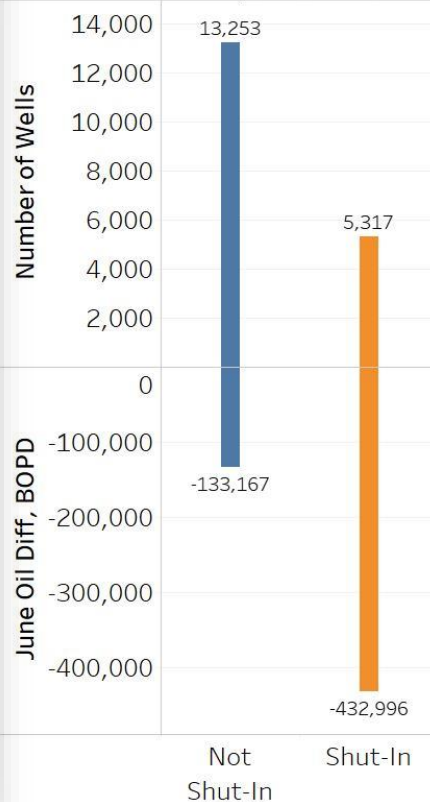
May 2020

Y/N Shut-In



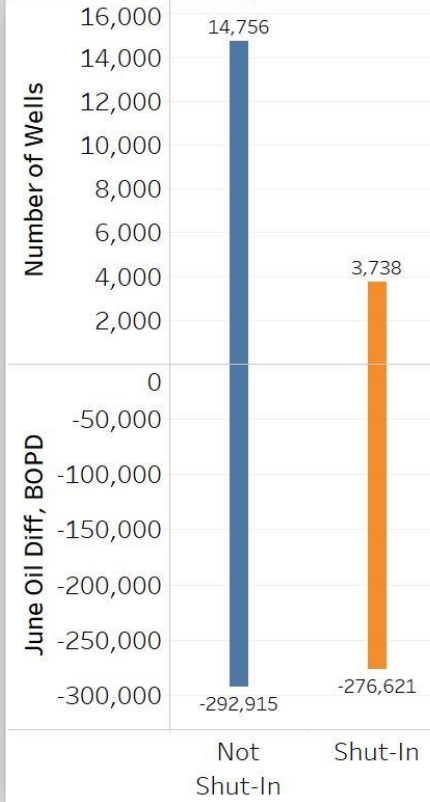
June 2020

Y/N Shut-In



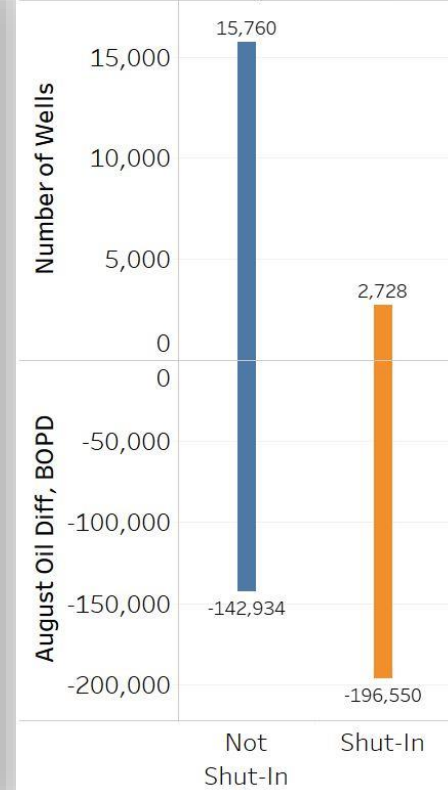
July 2020

Y/N Shut-In

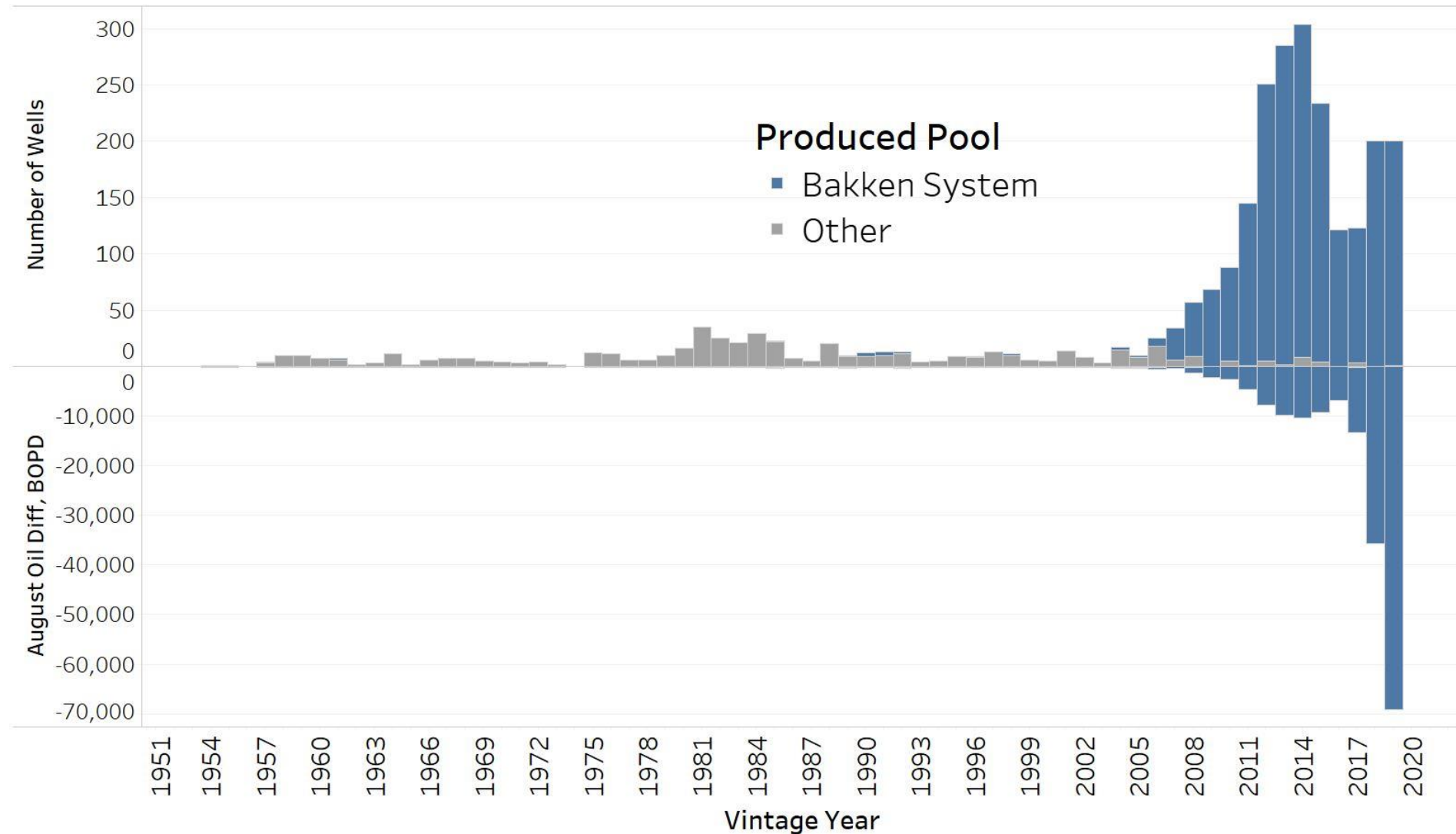


August 2020

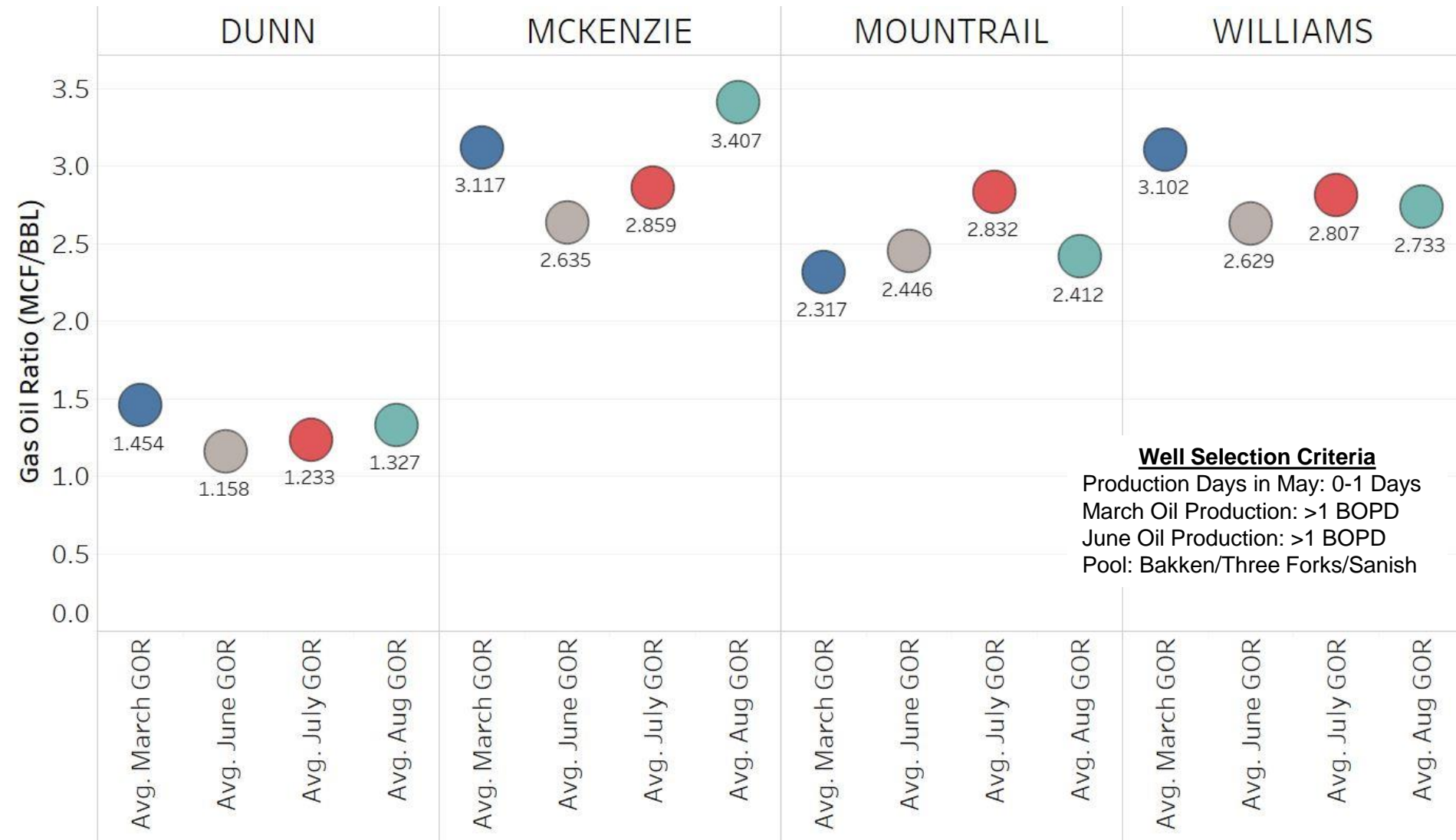
Y/N Shut-In



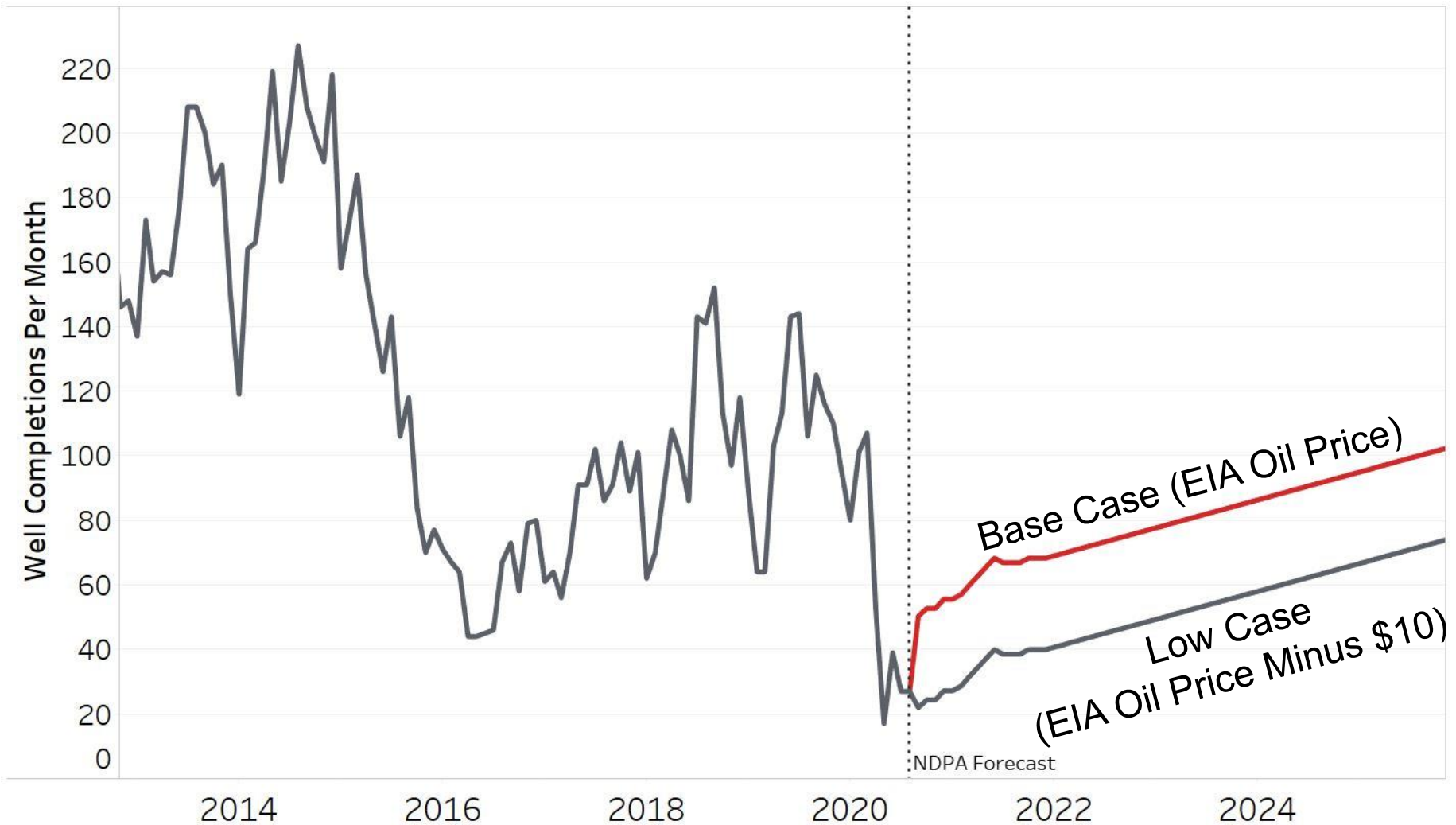
Vintage Year of Shut-In Wells – Aug. 2020



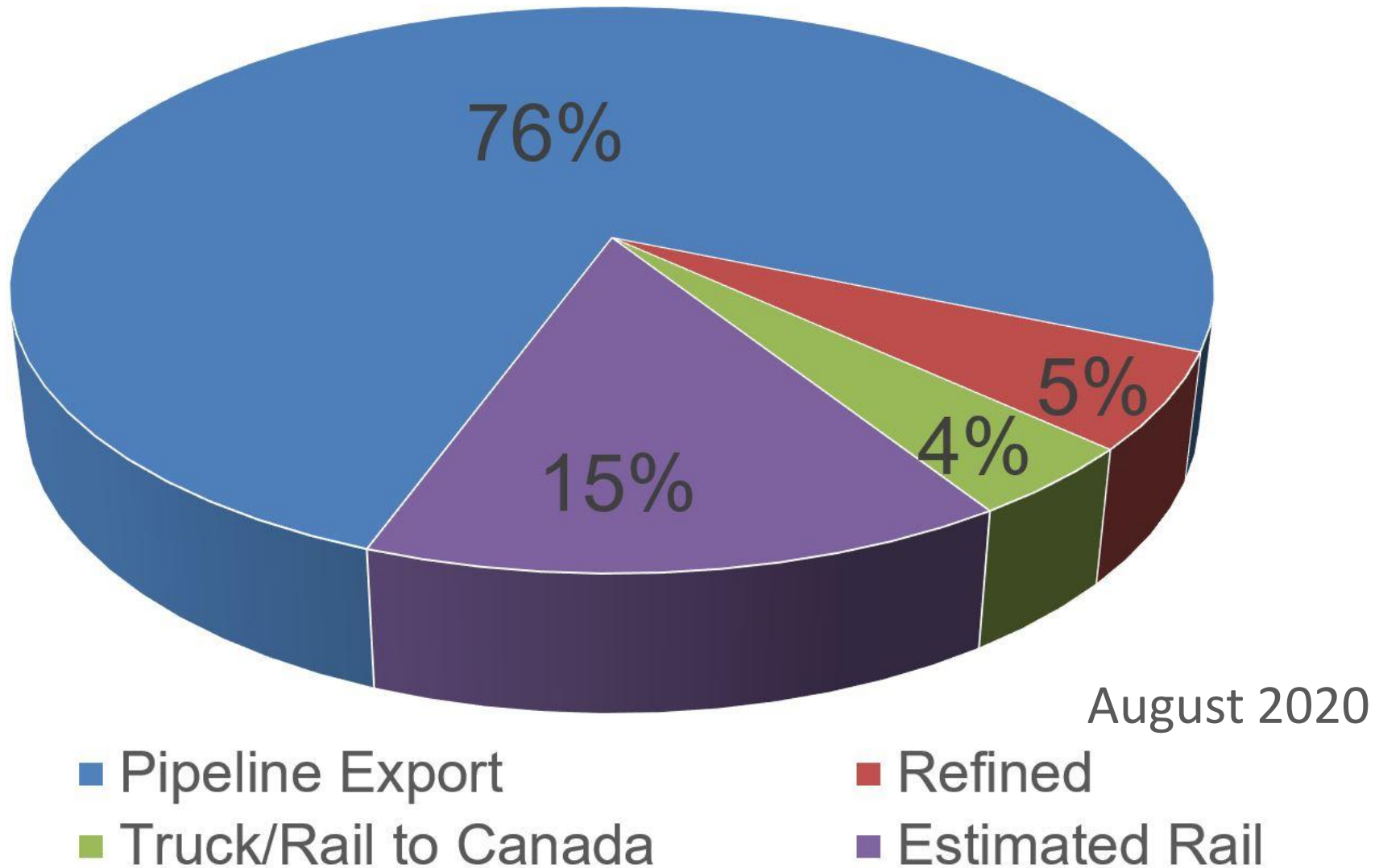
GOR Changes in Returning Curtailed Wells



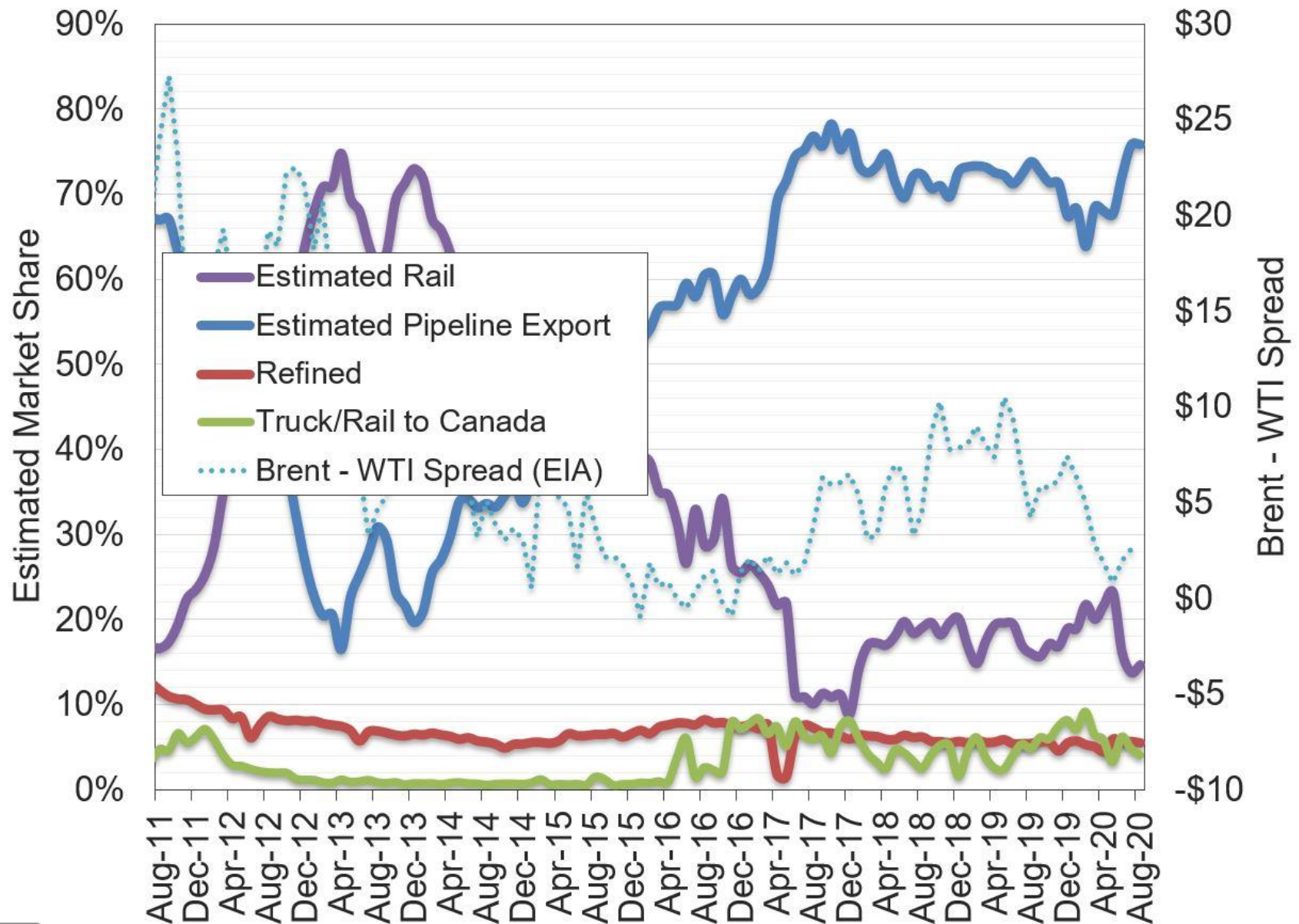
North Dakota Completions



Estimated Williston Basin Oil Transportation



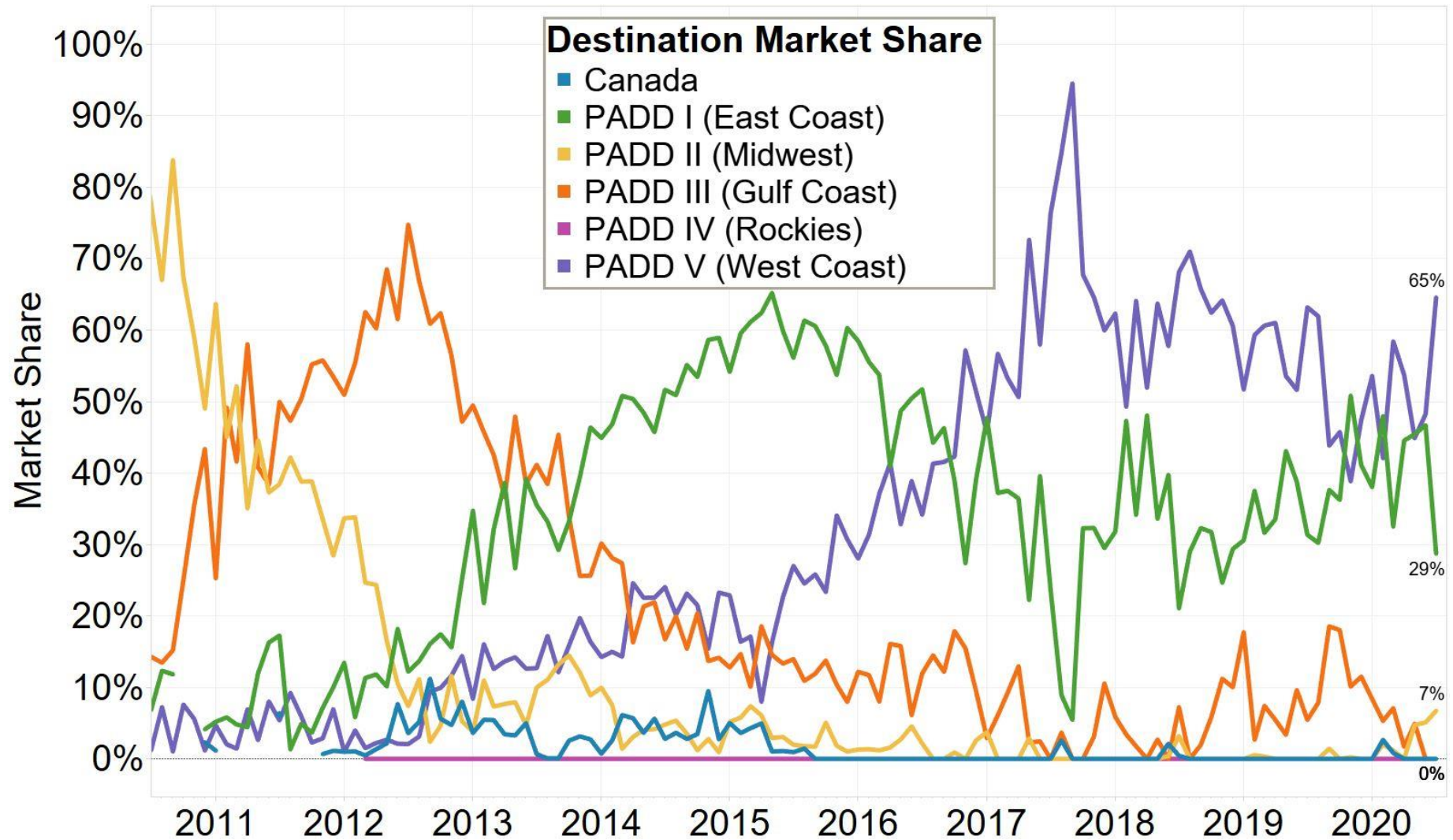
Estimated Williston Basin Oil Transportation



Estimated ND Rail Export Volumes



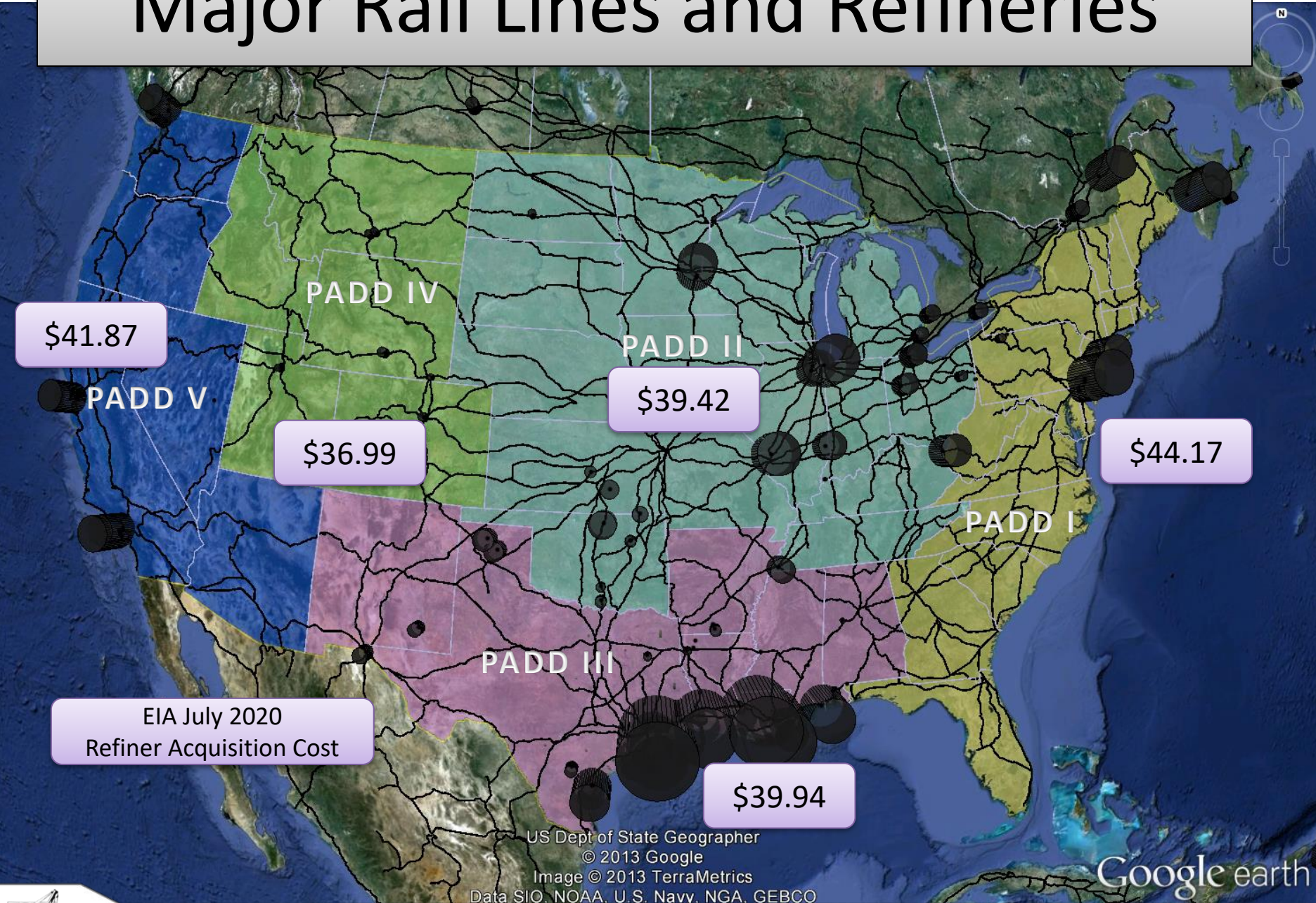
Rail Destinations Market Share (July 2020)



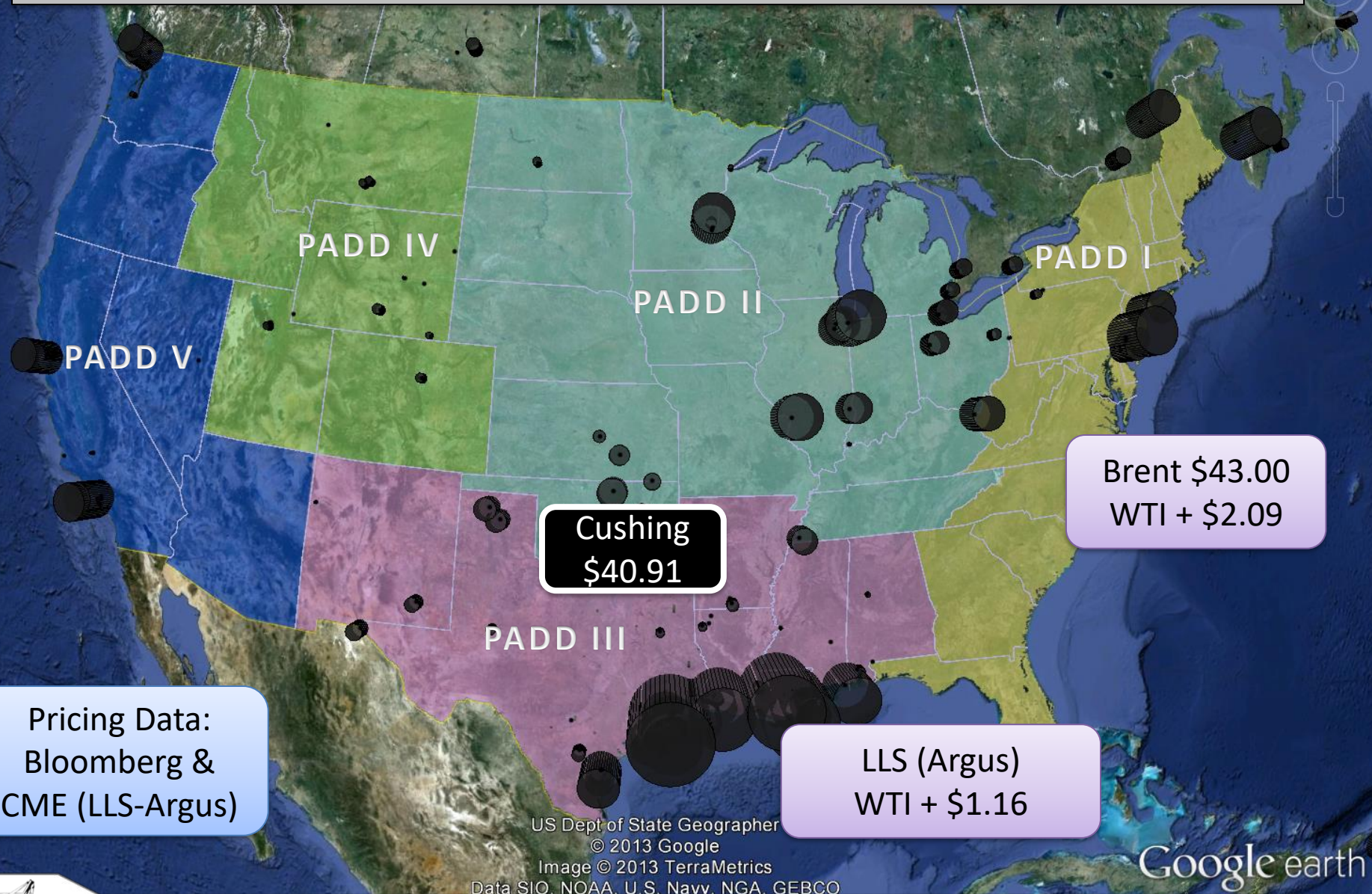
Data for Rail Destination Market Share Provided by the US Energy Information Administration



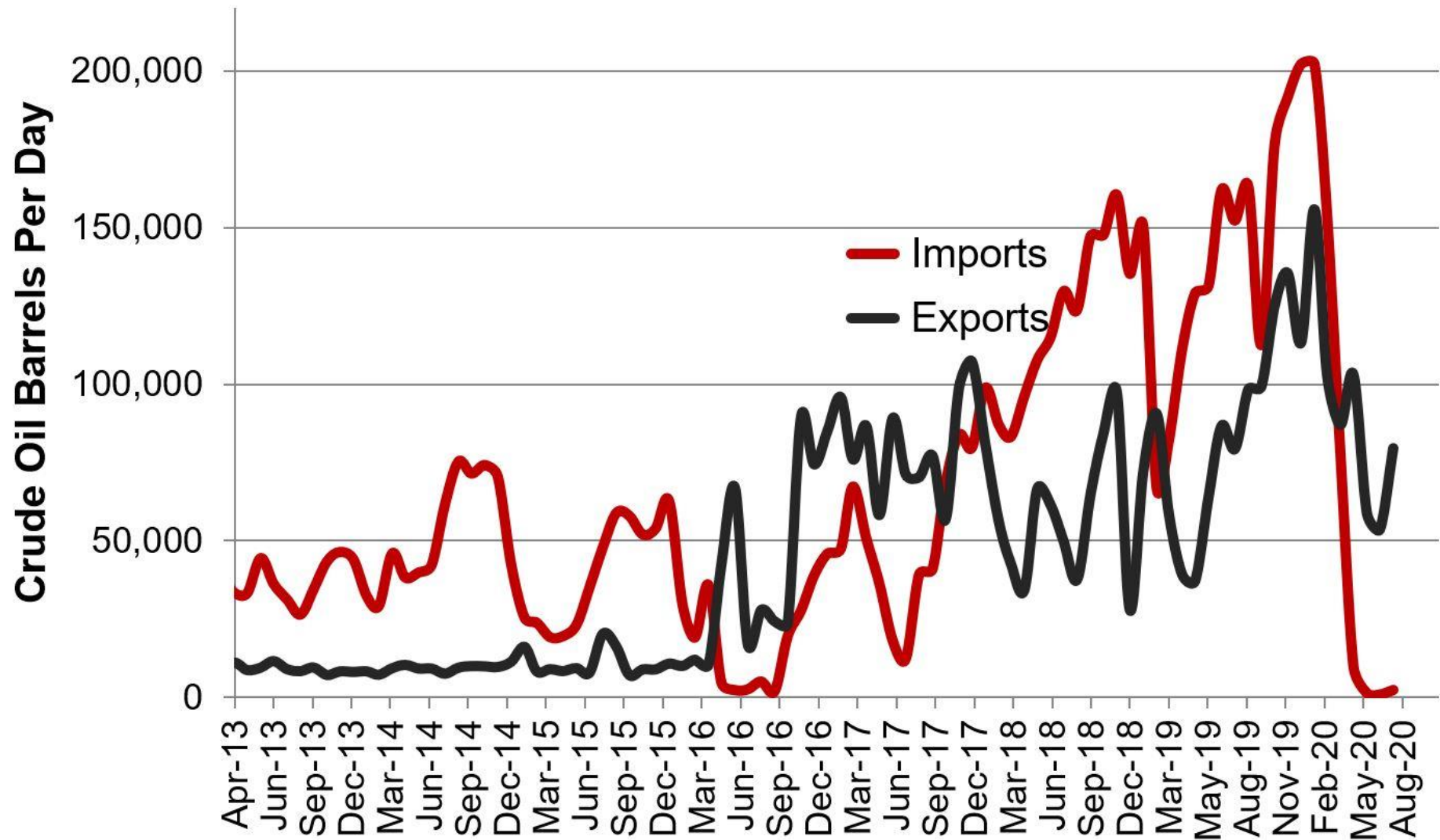
Major Rail Lines and Refineries



Crude Oil Prices – Oct. 16, 2020



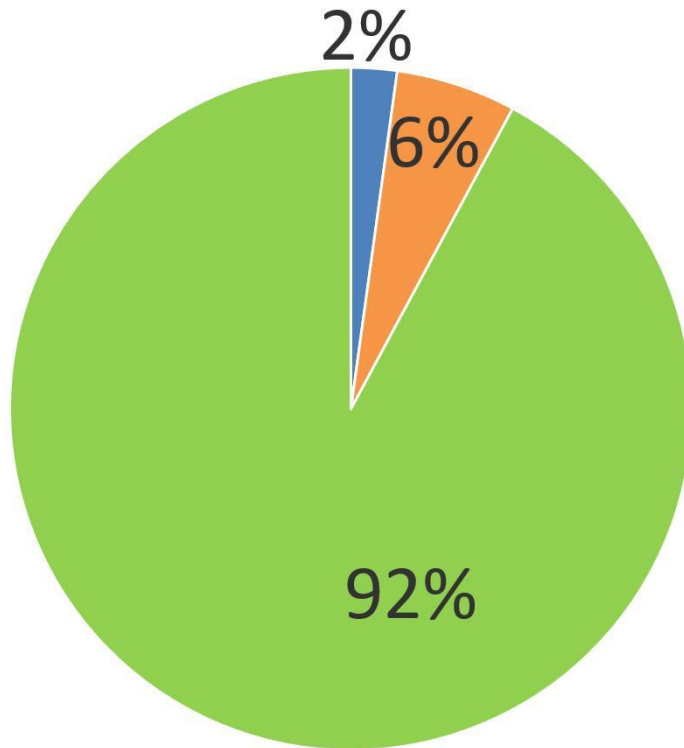
Williston Basin Truck/Rail Imports and Exports with Canada



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.

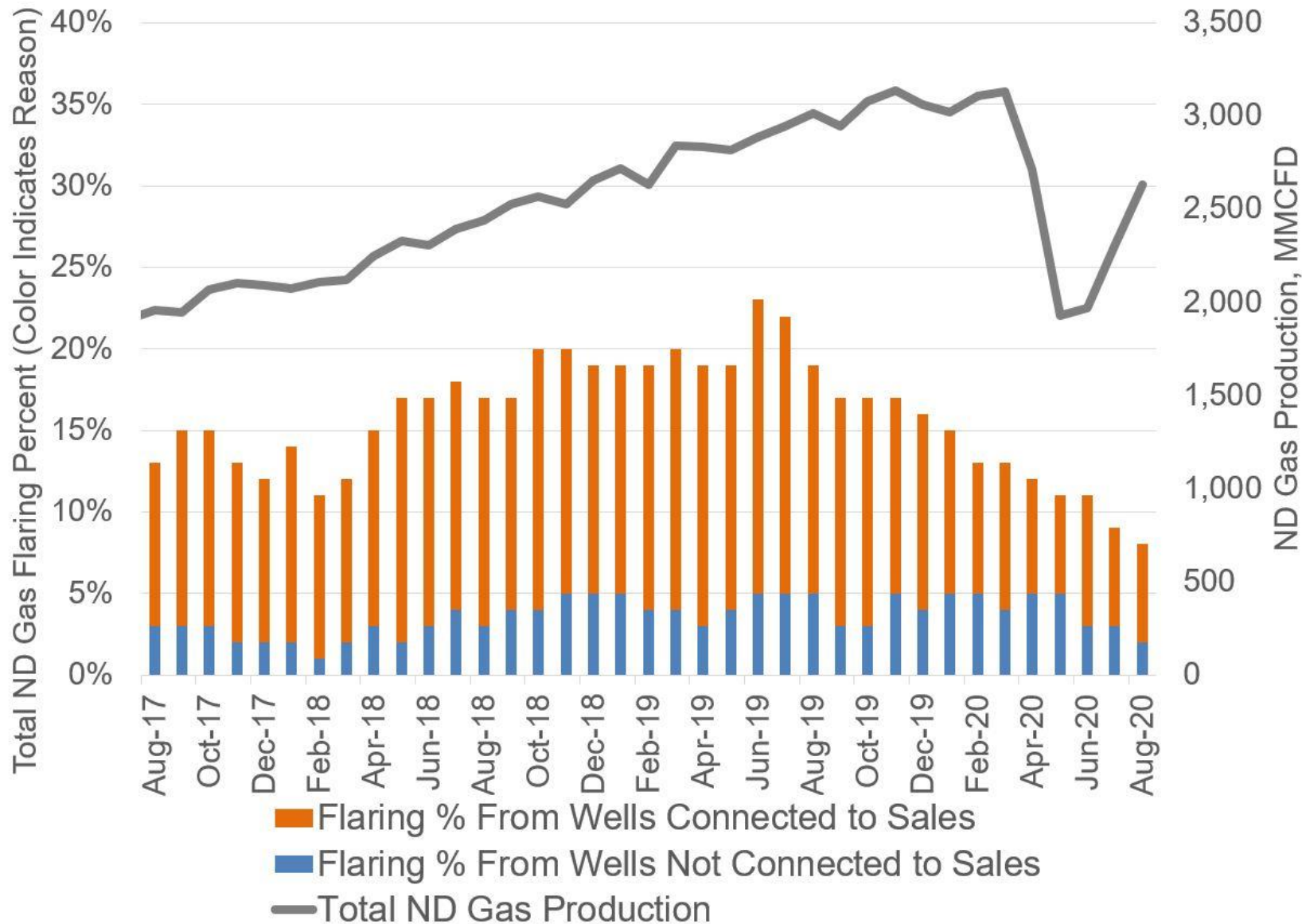
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

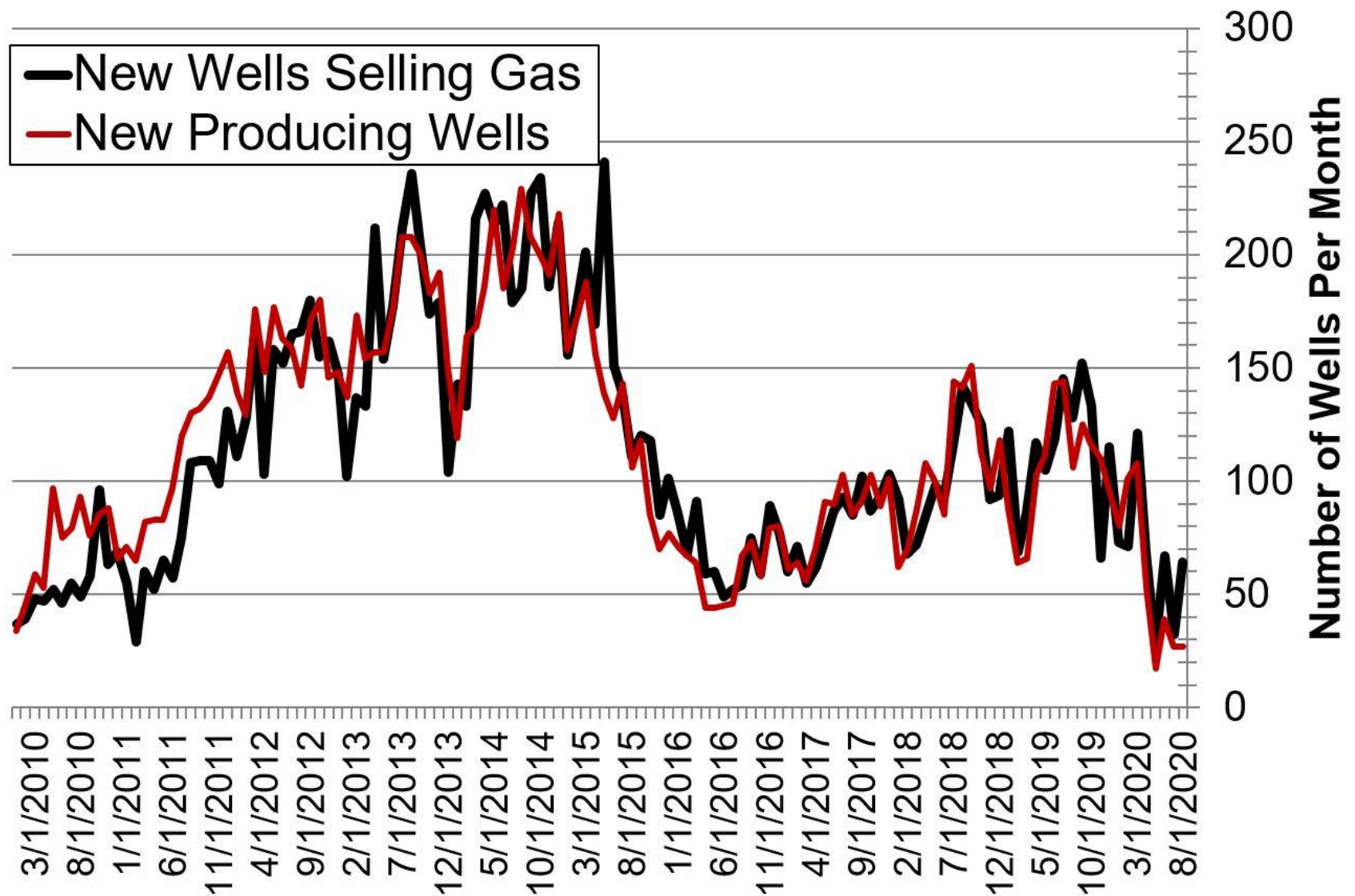
August 2020 Data – Non-Confidential Wells



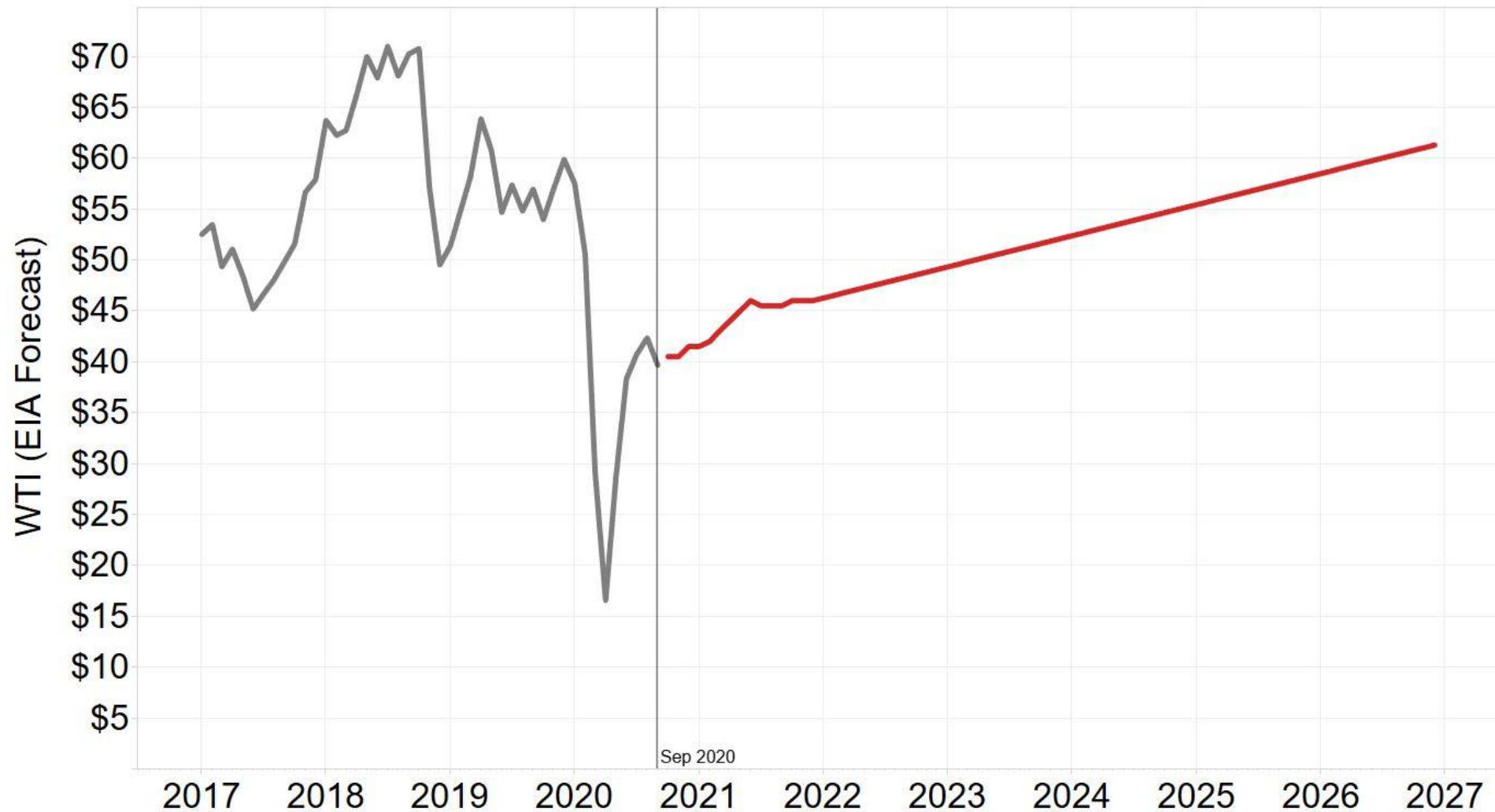
Solving the Flaring Challenge



Solving the Flaring Challenge



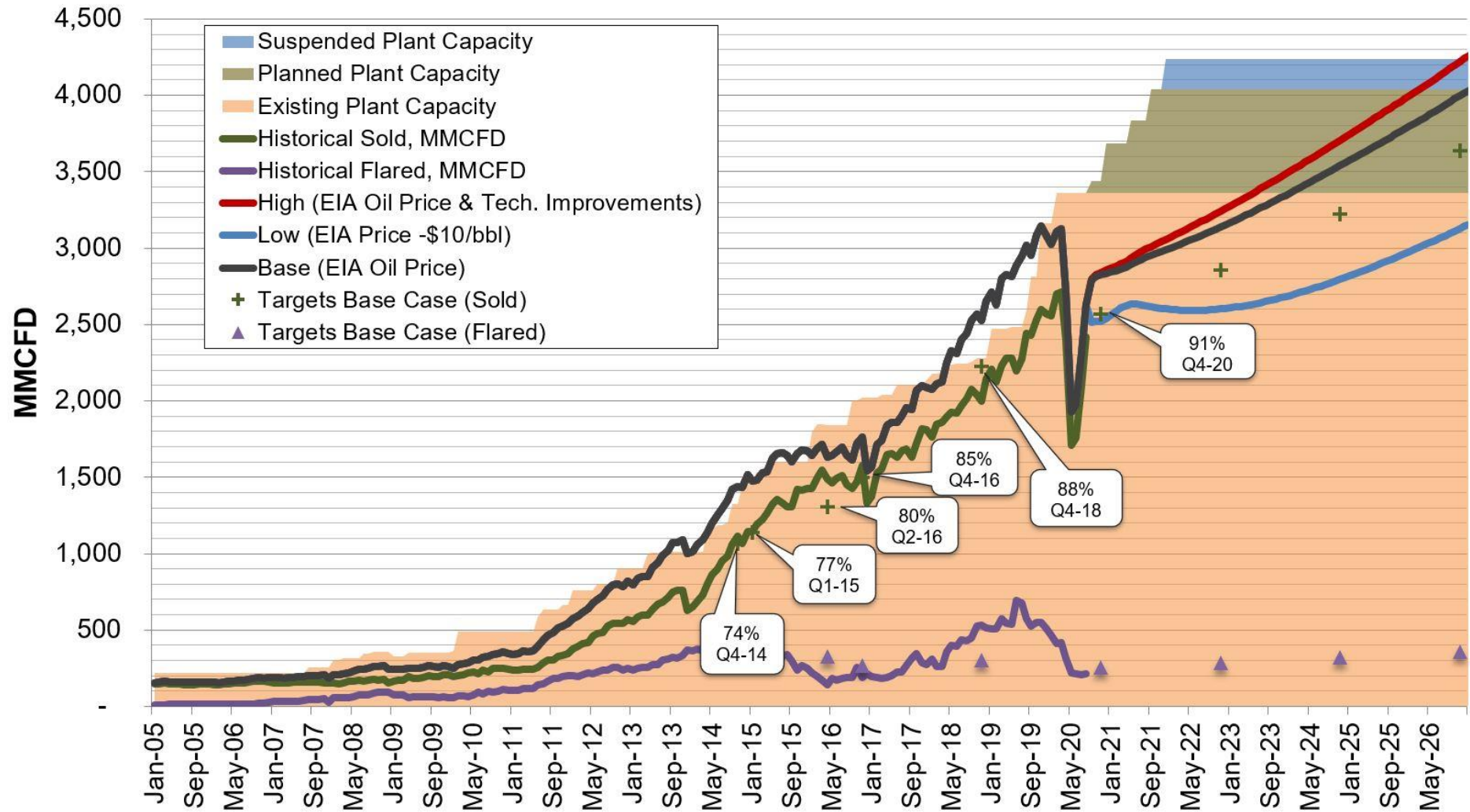
EIA Oil Price Forecast*



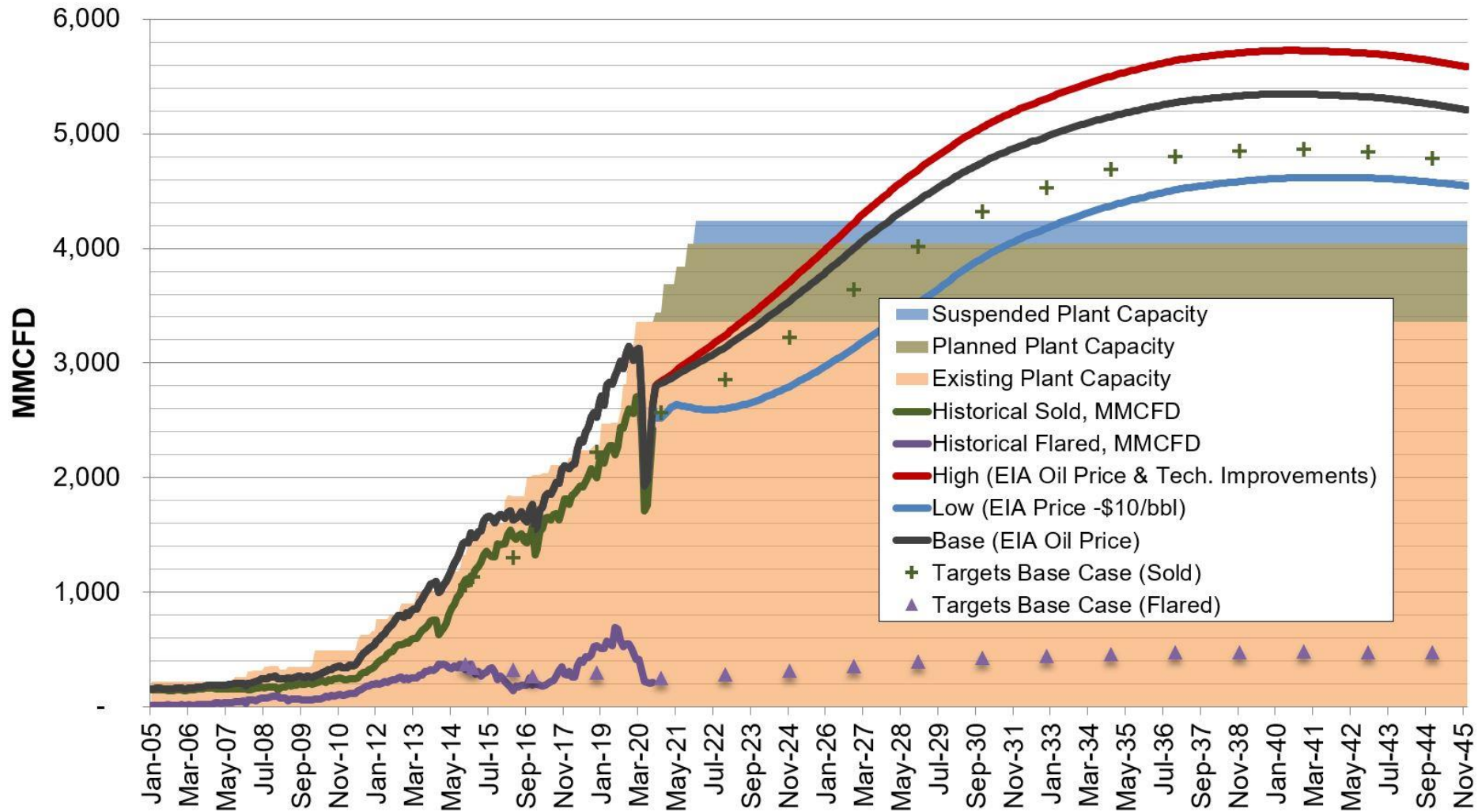
**EIA October 2020 SEO and January 2020 AEO Blend*



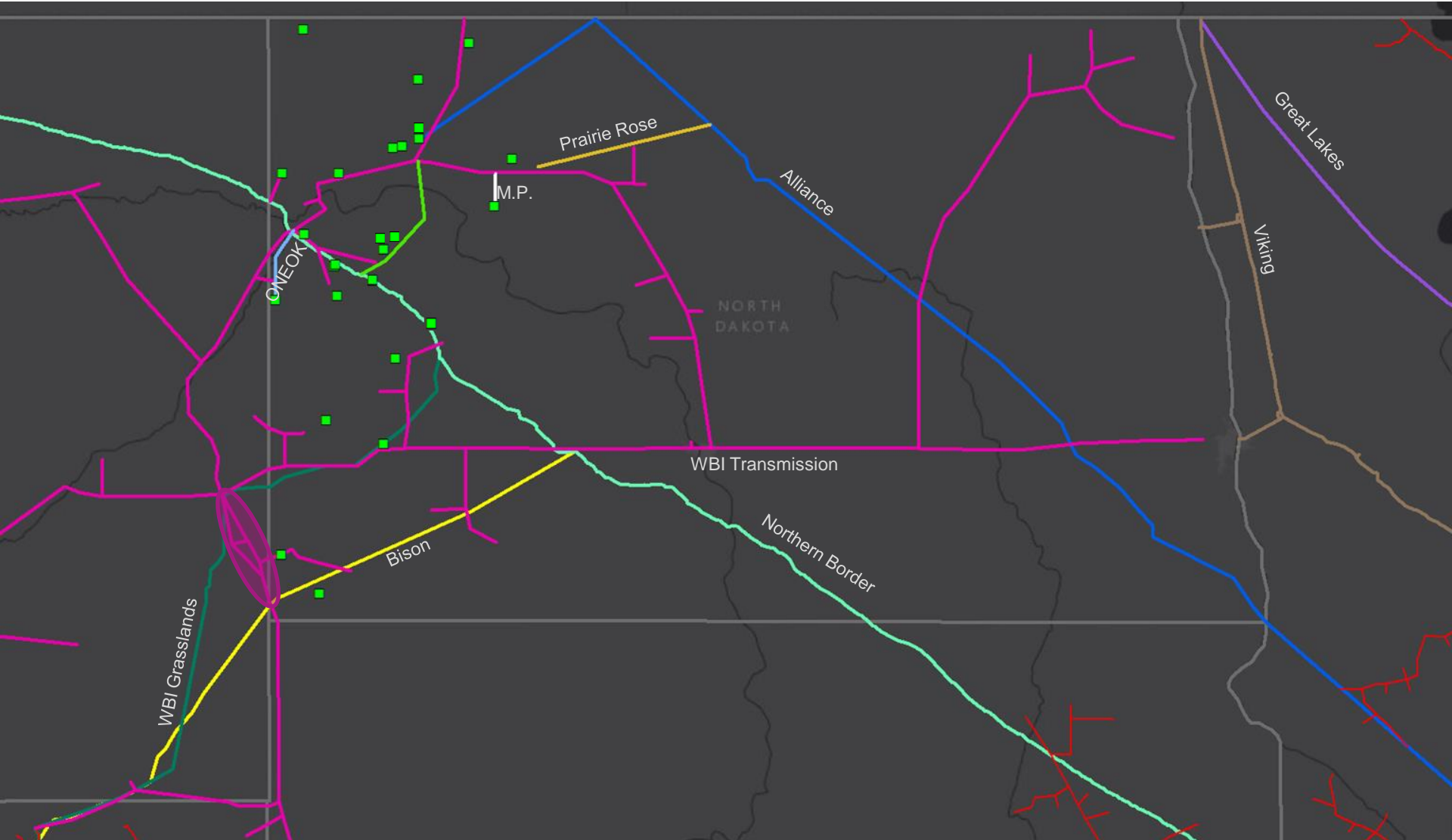
Solving the Flaring Challenge



Solving the Flaring Challenge



Major Gas Pipeline and Processing 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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