



May 2023 Monthly Update  
North Dakota Pipeline Authority  
Justin J. Kringstad  
May 12, 2023

# US Williston Basin Oil Production - 2022

| MONTH     | ND        | Eastern MT* | SD    | TOTAL     |
|-----------|-----------|-------------|-------|-----------|
| January   | 1,091,931 | 51,895      | 2,709 | 1,146,535 |
| February  | 1,095,503 | 51,165      | 2,742 | 1,149,410 |
| March     | 1,129,936 | 54,580      | 2,709 | 1,187,225 |
| April     | 908,697   | 54,118      | 2,338 | 965,153   |
| May       | 1,062,228 | 52,545      | 2,648 | 1,117,421 |
| June      | 1,099,366 | 63,258      | 2,764 | 1,165,388 |
| July      | 1,073,624 | 60,604      | 2,774 | 1,137,002 |
| August    | 1,075,801 | 60,526      | 2,756 | 1,139,083 |
| September | 1,126,138 | 58,110      | 2,679 | 1,186,927 |
| October   | 1,122,122 | 54,178      | 2,621 | 1,178,921 |
| November  | 1,098,415 | 56,582      | 2,682 | 1,157,679 |
| December  | 957,864   | 56,715      | 2,199 | 1,016,778 |

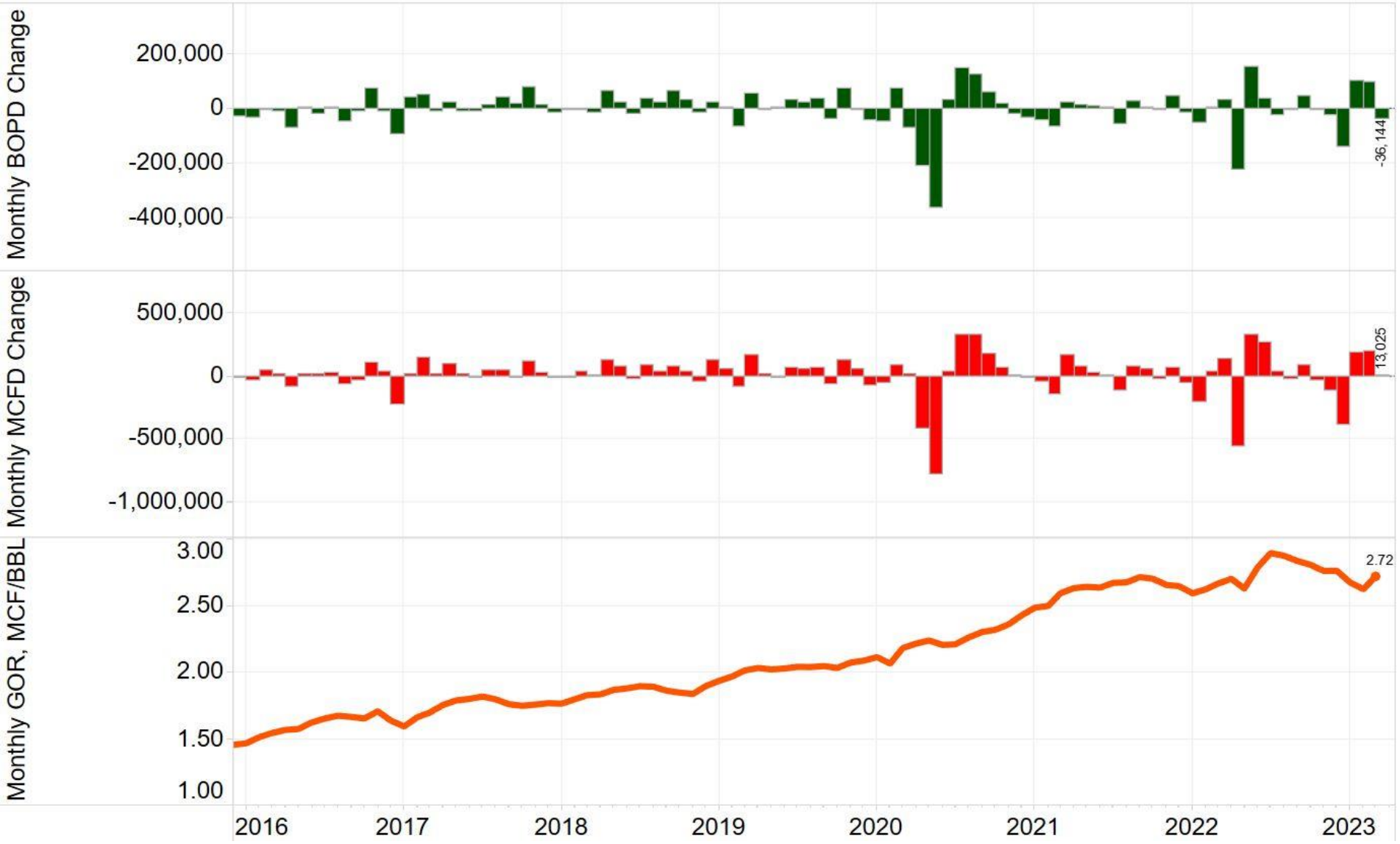


# US Williston Basin Oil Production - 2023

| <b>MONTH</b> | <b>ND</b> | <b>Eastern MT*</b> | <b>SD</b> | <b>TOTAL</b> |
|--------------|-----------|--------------------|-----------|--------------|
| January      | 1,061,106 | 60,015             | 2,610     | 1,123,731    |
| February     | 1,158,837 | 62,345             | 2,475     | 1,223,657    |
| March        | 1,122,693 |                    |           |              |
| April        |           |                    |           |              |
| May          |           |                    |           |              |
| June         |           |                    |           |              |
| July         |           |                    |           |              |
| August       |           |                    |           |              |
| September    |           |                    |           |              |
| October      |           |                    |           |              |
| November     |           |                    |           |              |
| December     |           |                    |           |              |

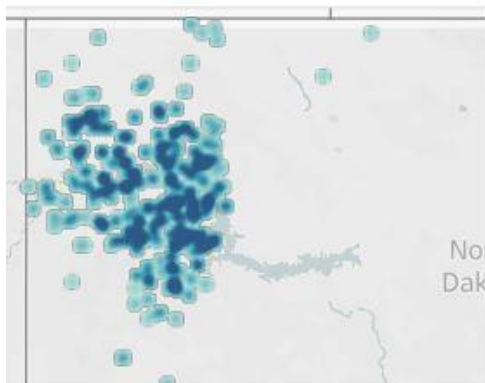


# North Dakota Monthly Production Change

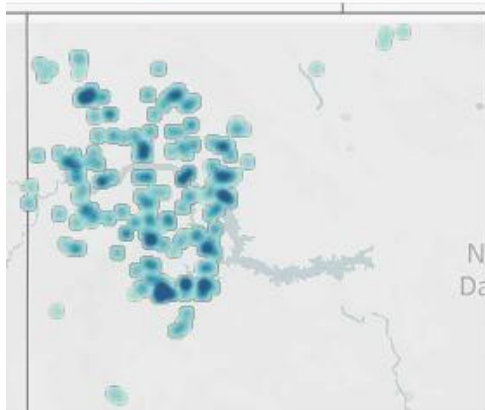
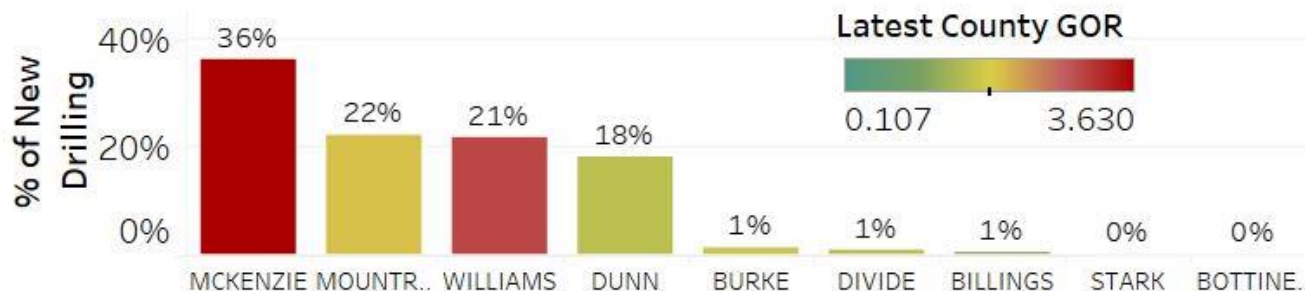




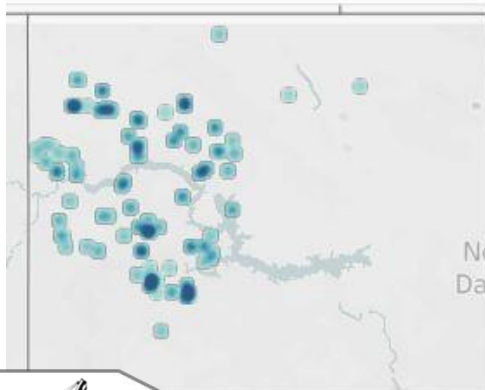
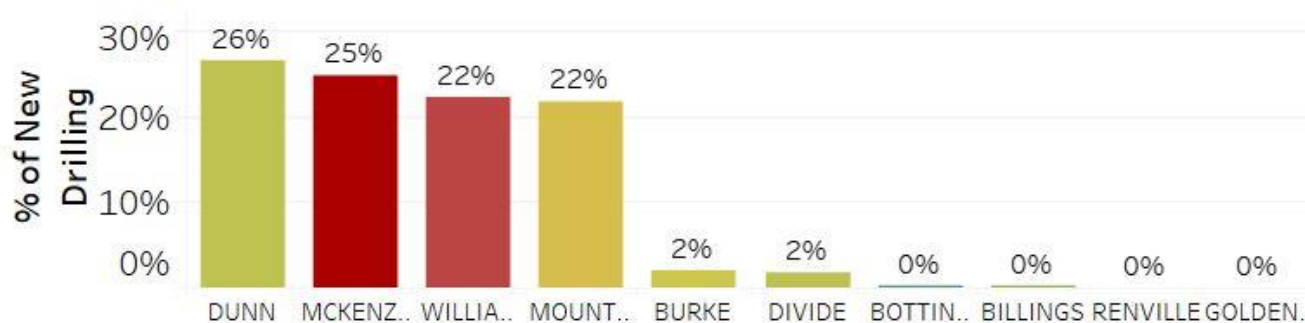
# Near-term GOR Influenced by Drilling Location



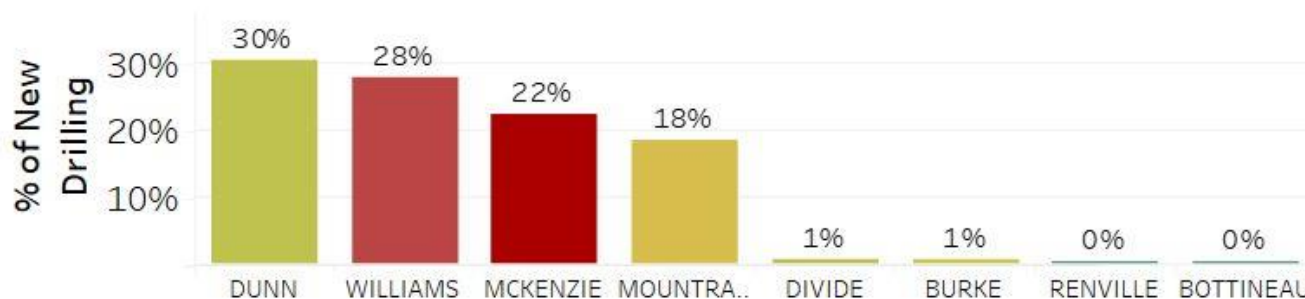
2019 Rig Location and County GOR



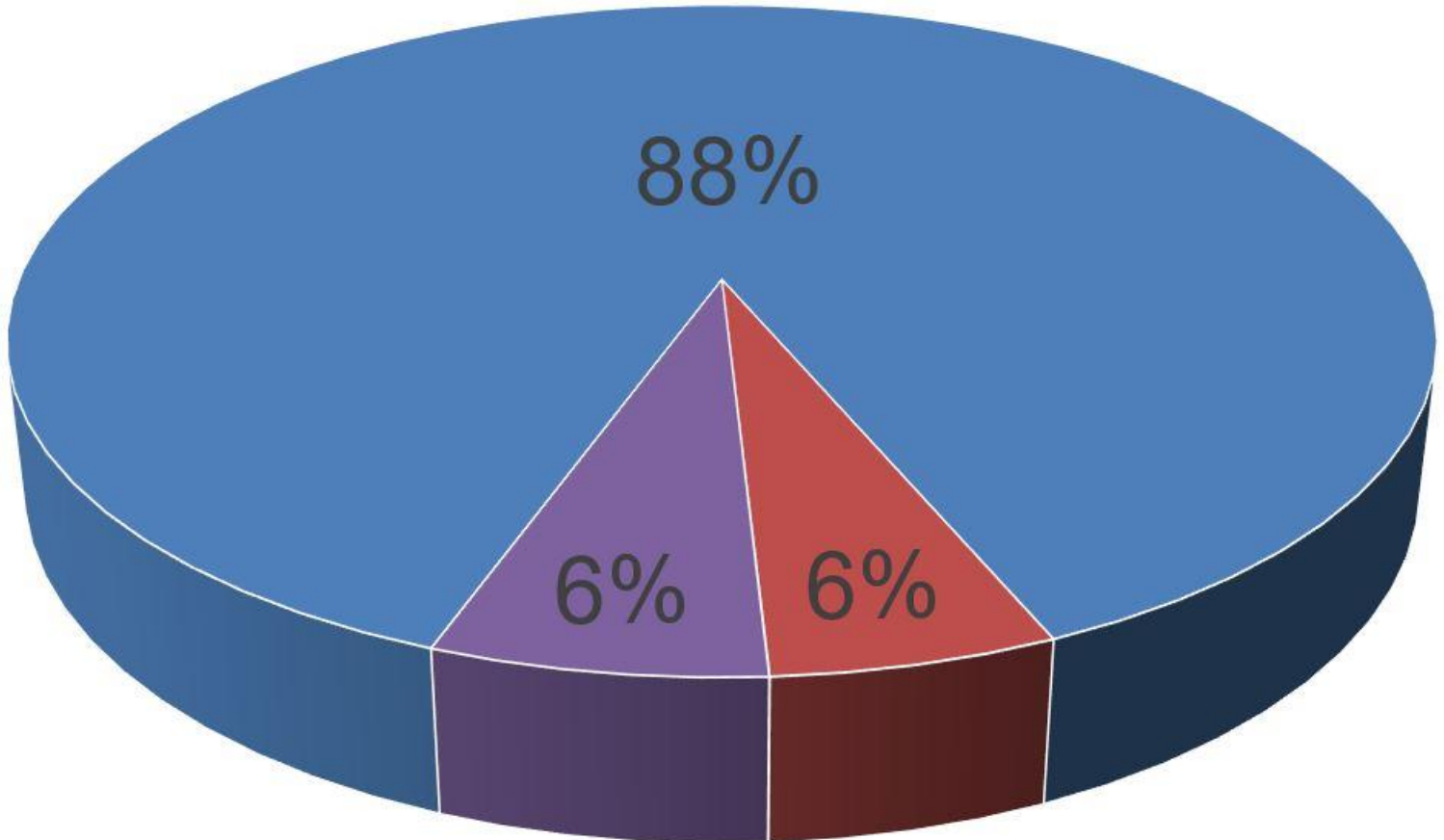
2022 Rig Location and County GOR



2023 (YTD) Rig Location and County GOR



# Estimated Williston Basin Oil Transportation

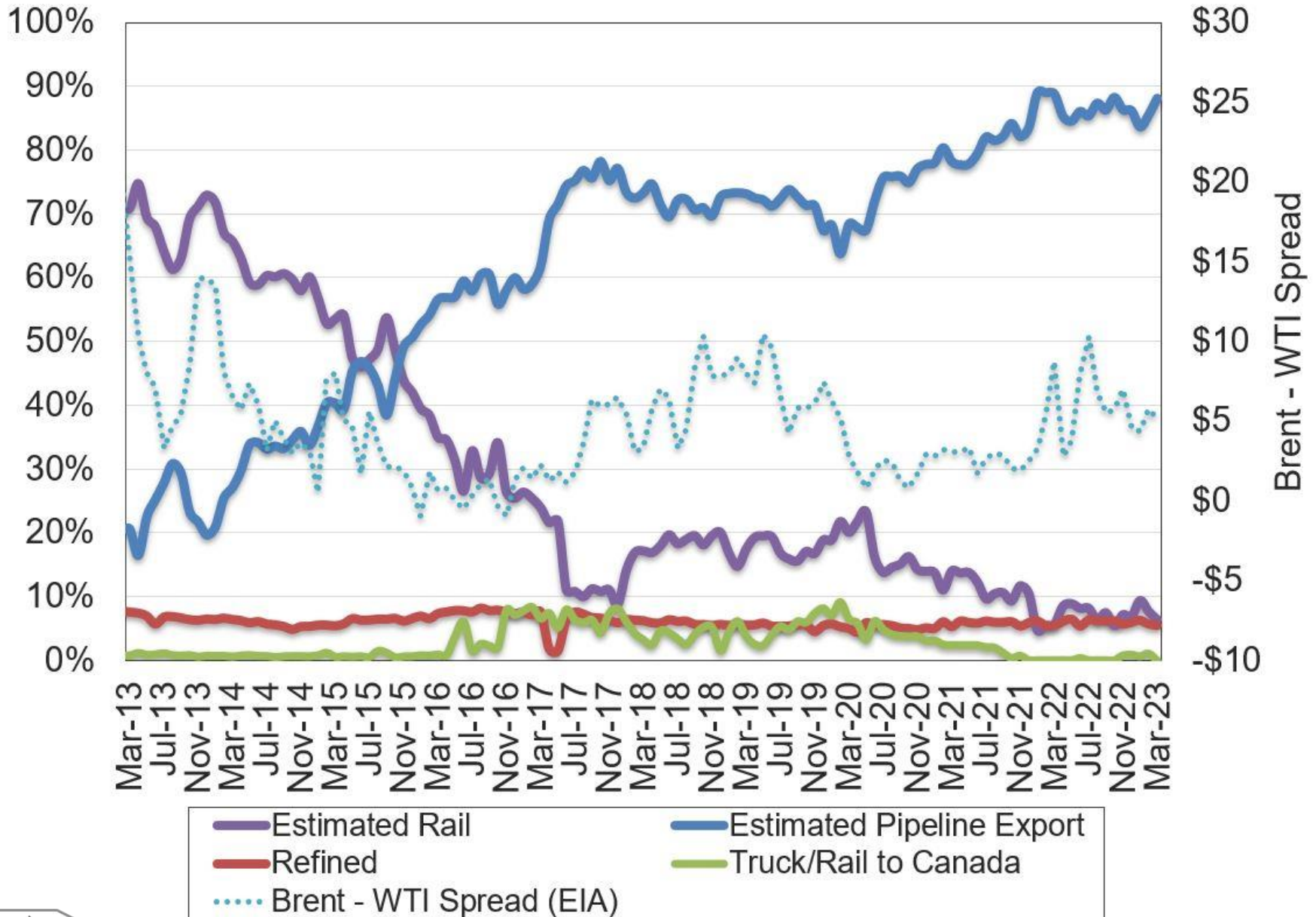


- Pipeline Export 0%
- Refined
- Truck/Rail to Canada
- Estimated Rail

March 2023

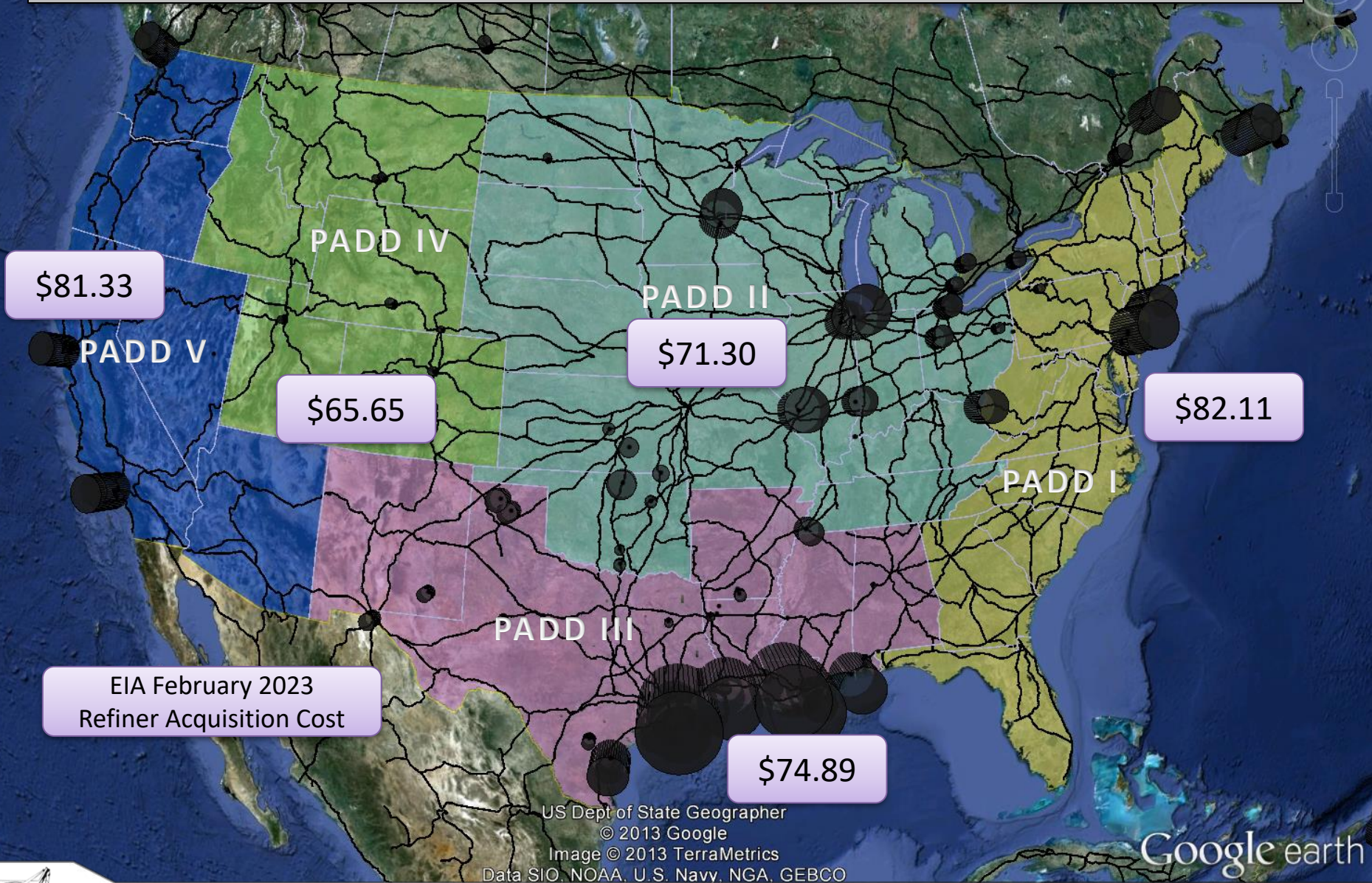


# Estimated Williston Basin Oil Transportation





# Major Rail Lines and Refineries

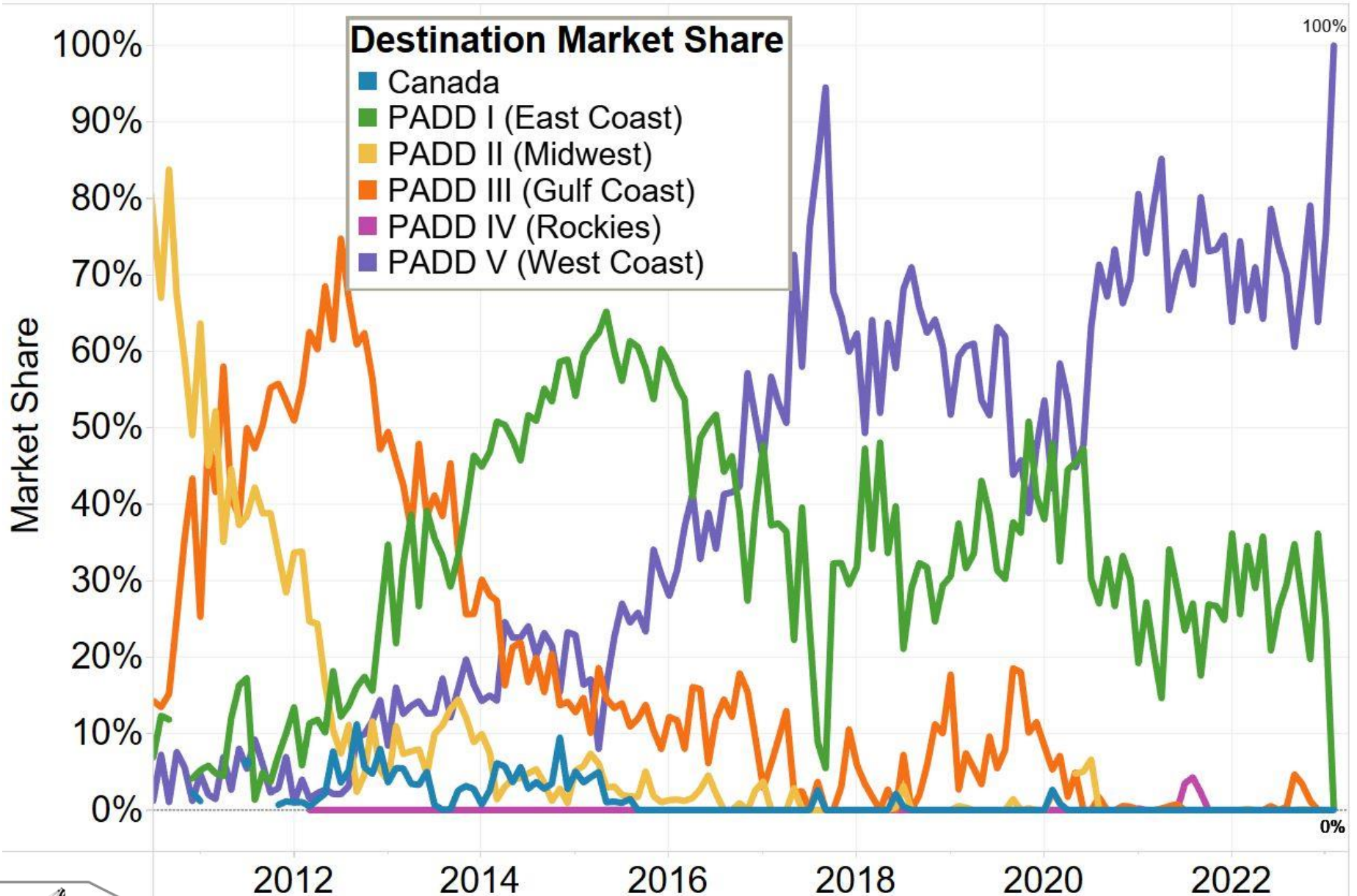




# Estimated ND Rail Export Volumes

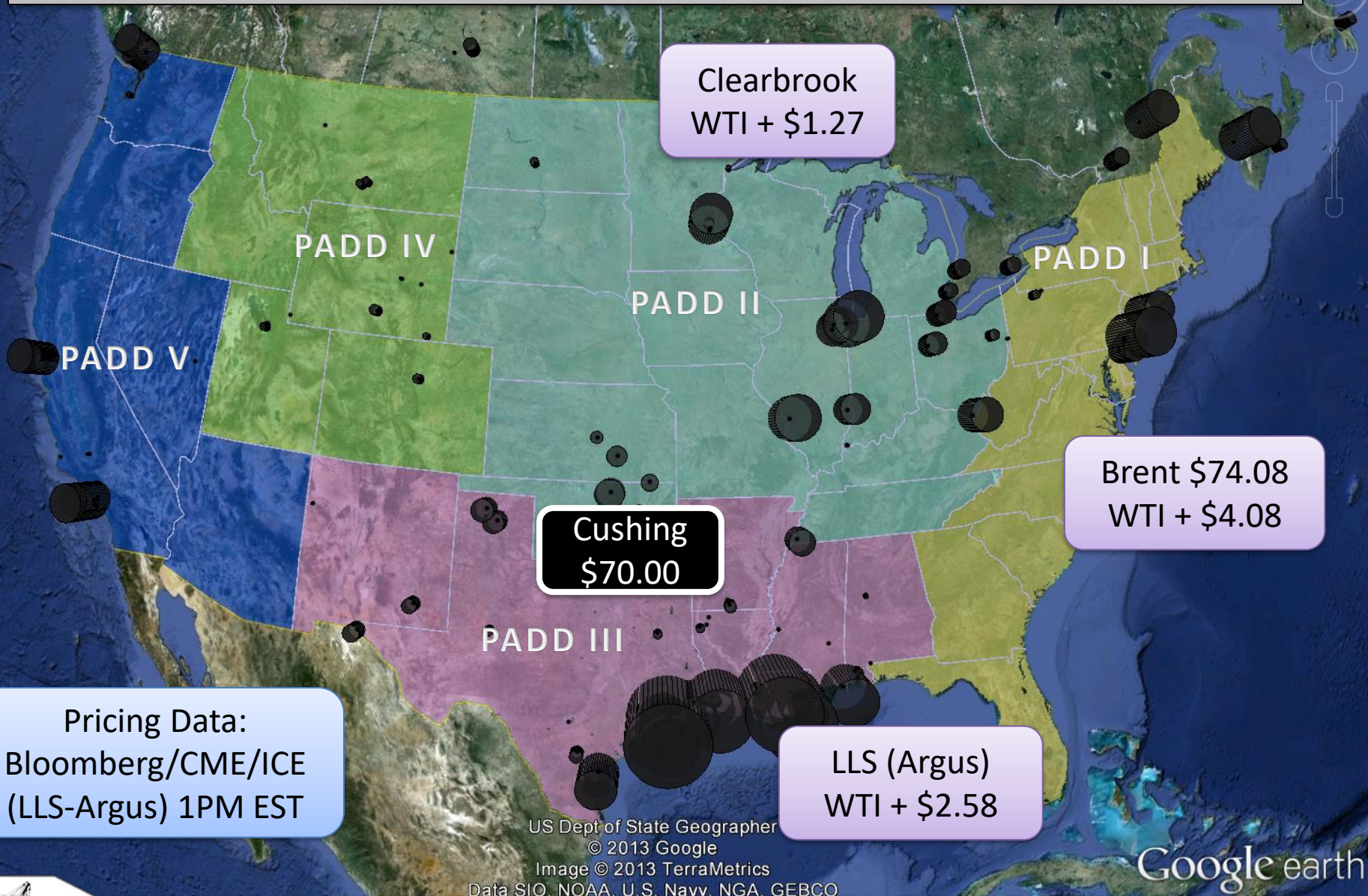


# Rail Destinations Market Share (Feb. 2023)



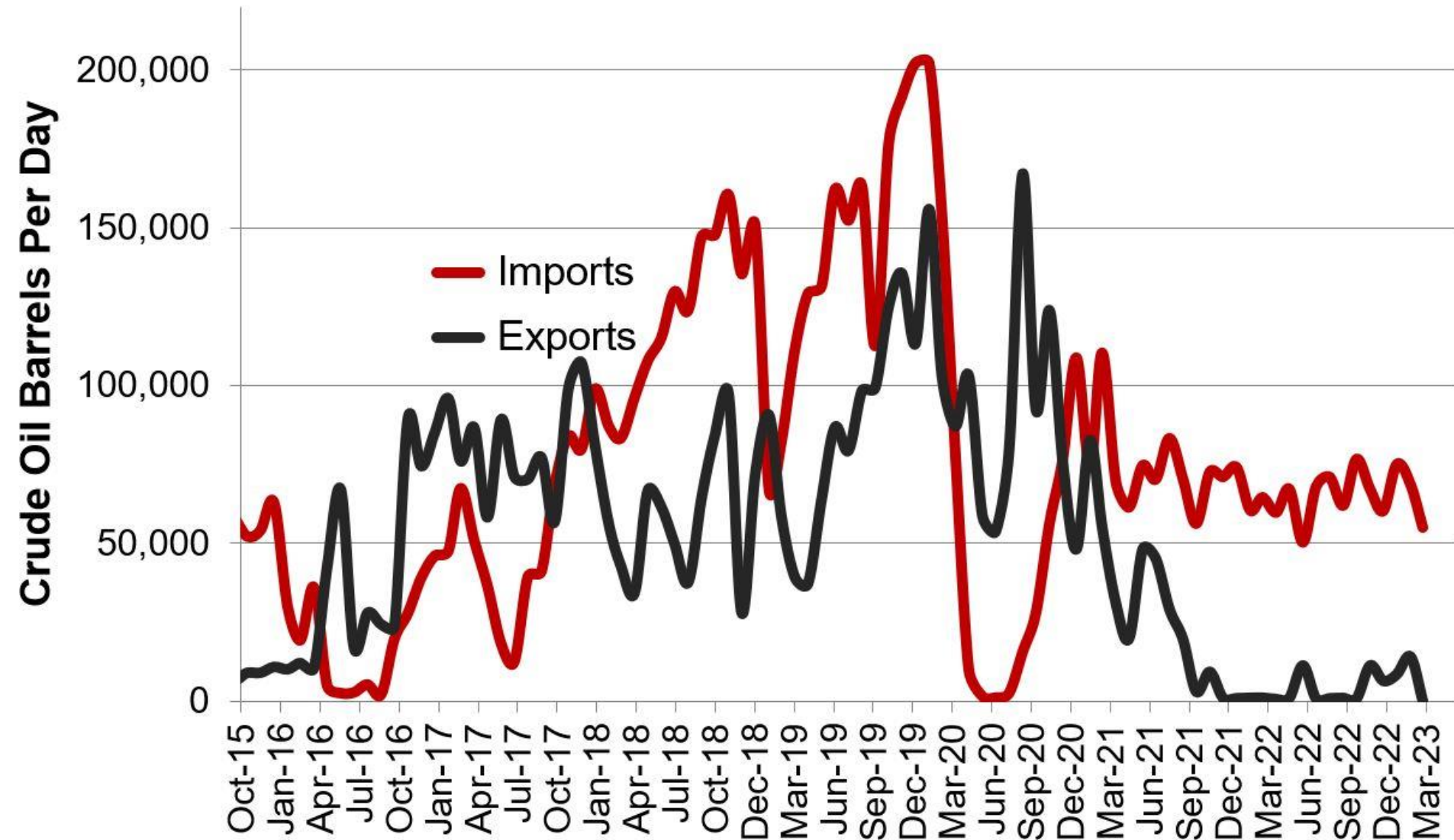


# Crude Oil Prices – May 12, 2023





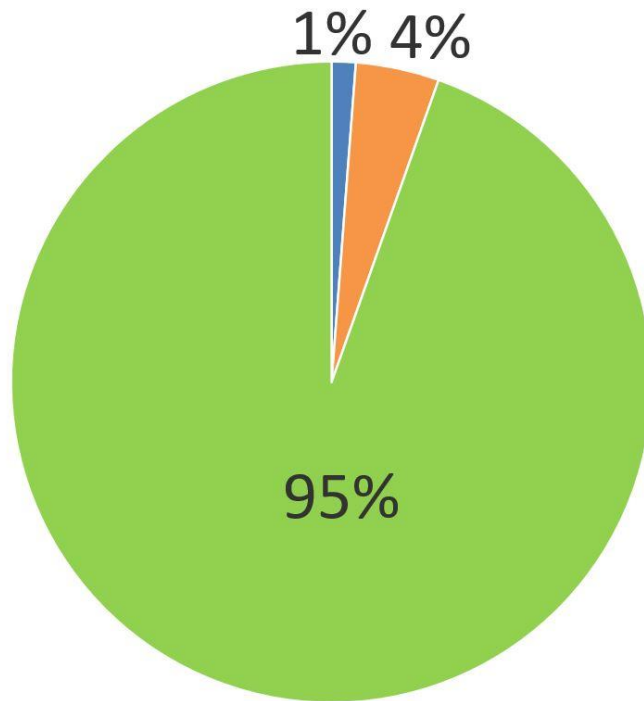
# Williston Basin Truck/Rail Imports and Exports with Canada



*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

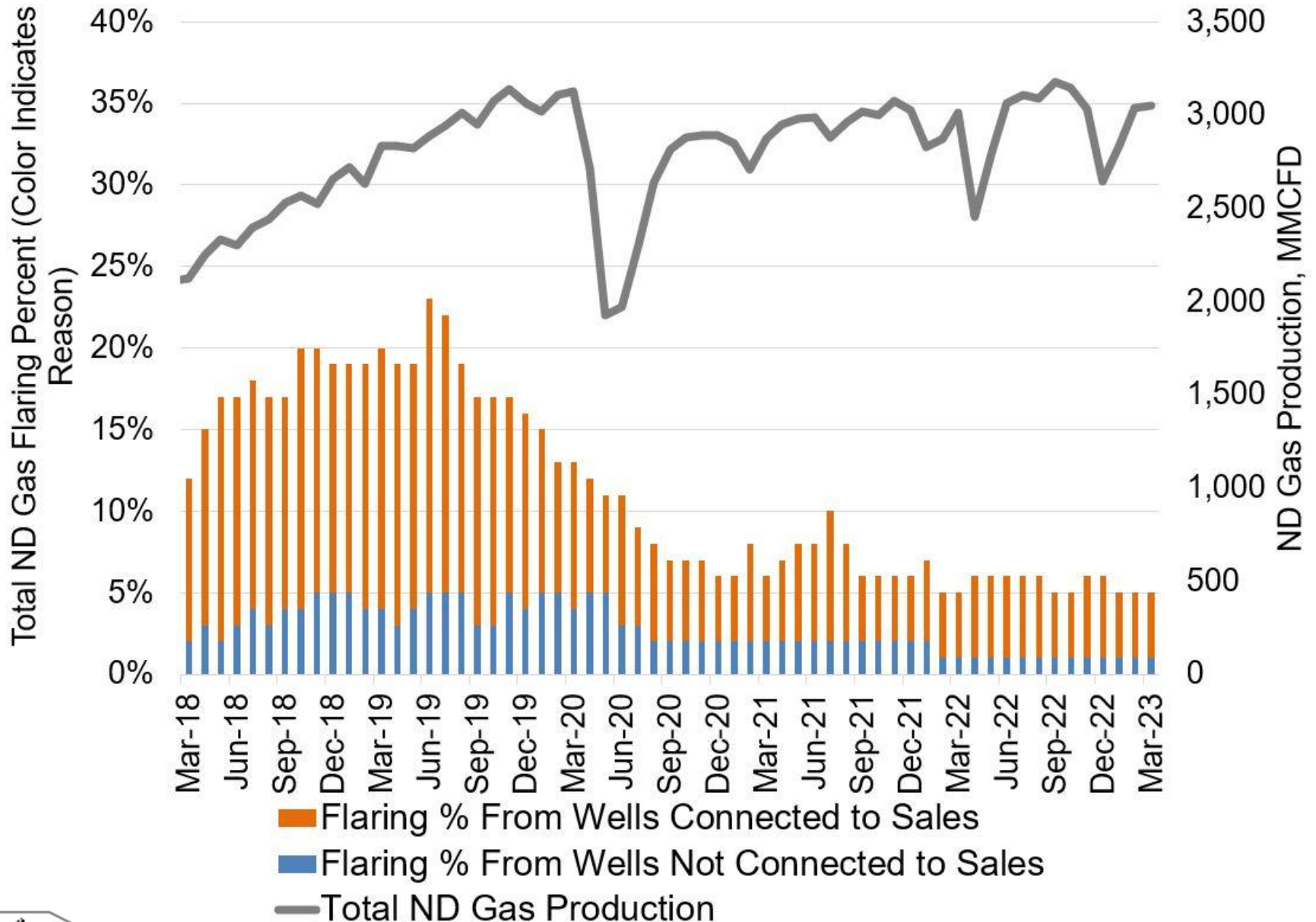
**Blue** – Lack of pipelines

**Orange** – Challenges on existing infrastructure

March 2023 Data – Non-Confidential Wells

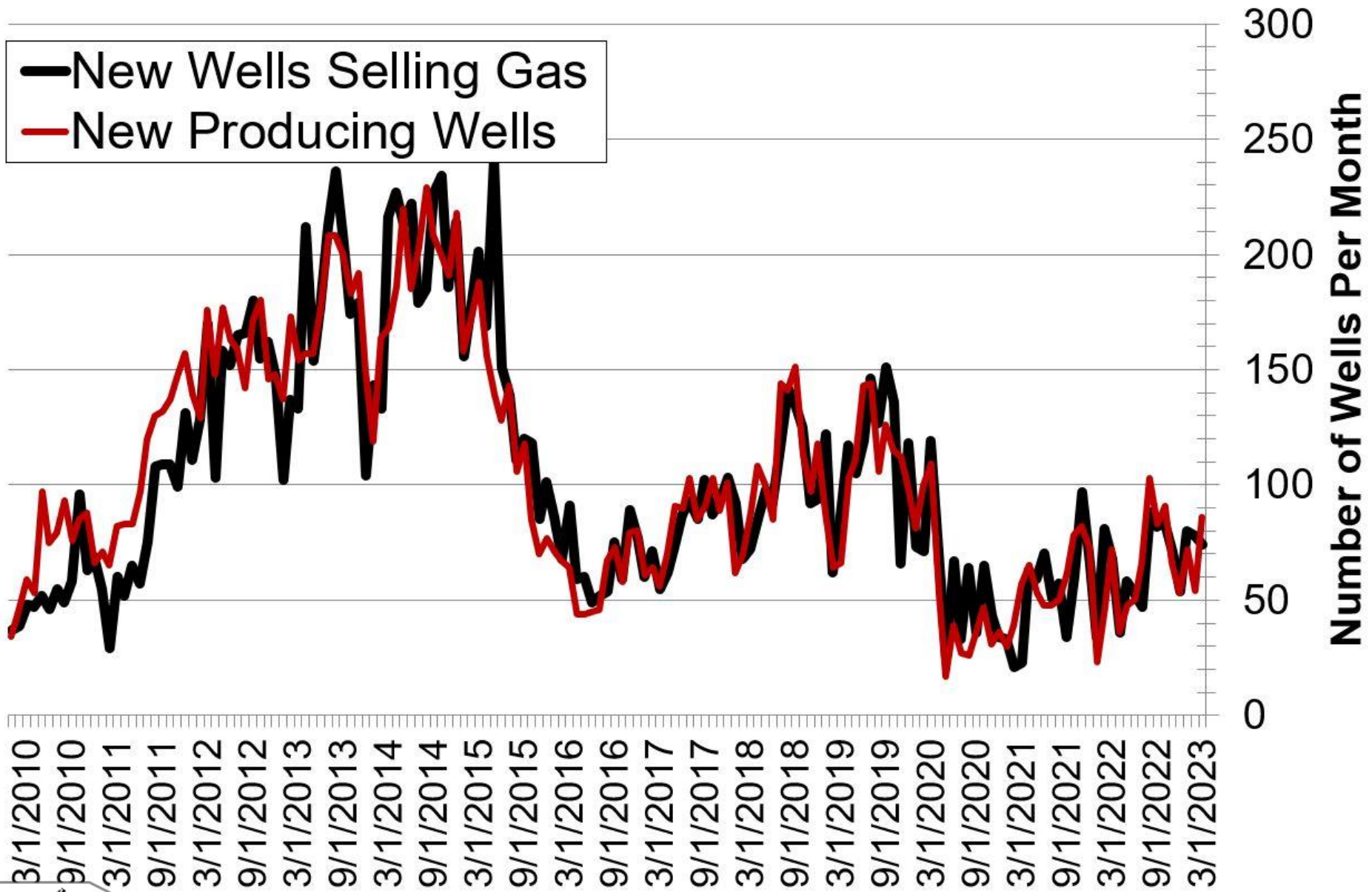


# Solving the Flaring Challenge



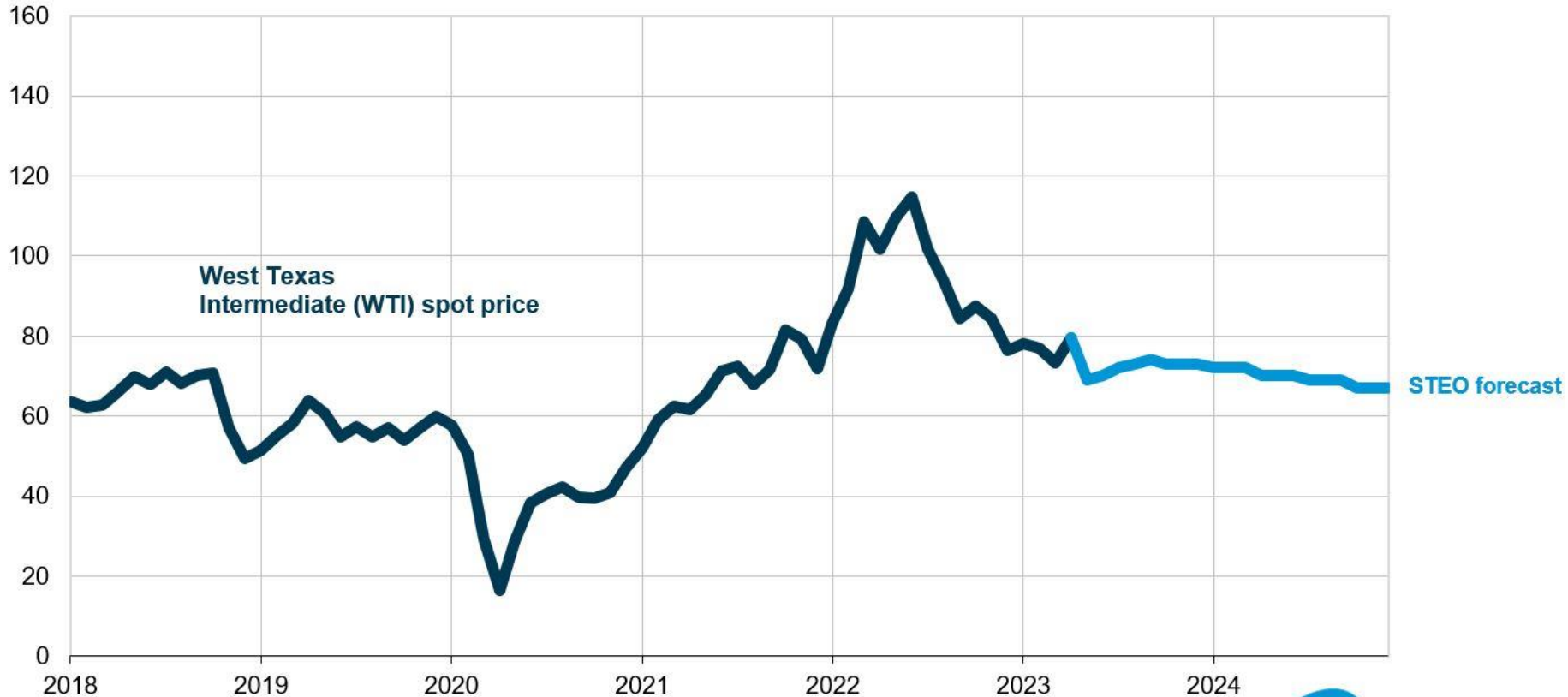


# Solving the Flaring Challenge



# EIA Oil Price Forecast: May 2023

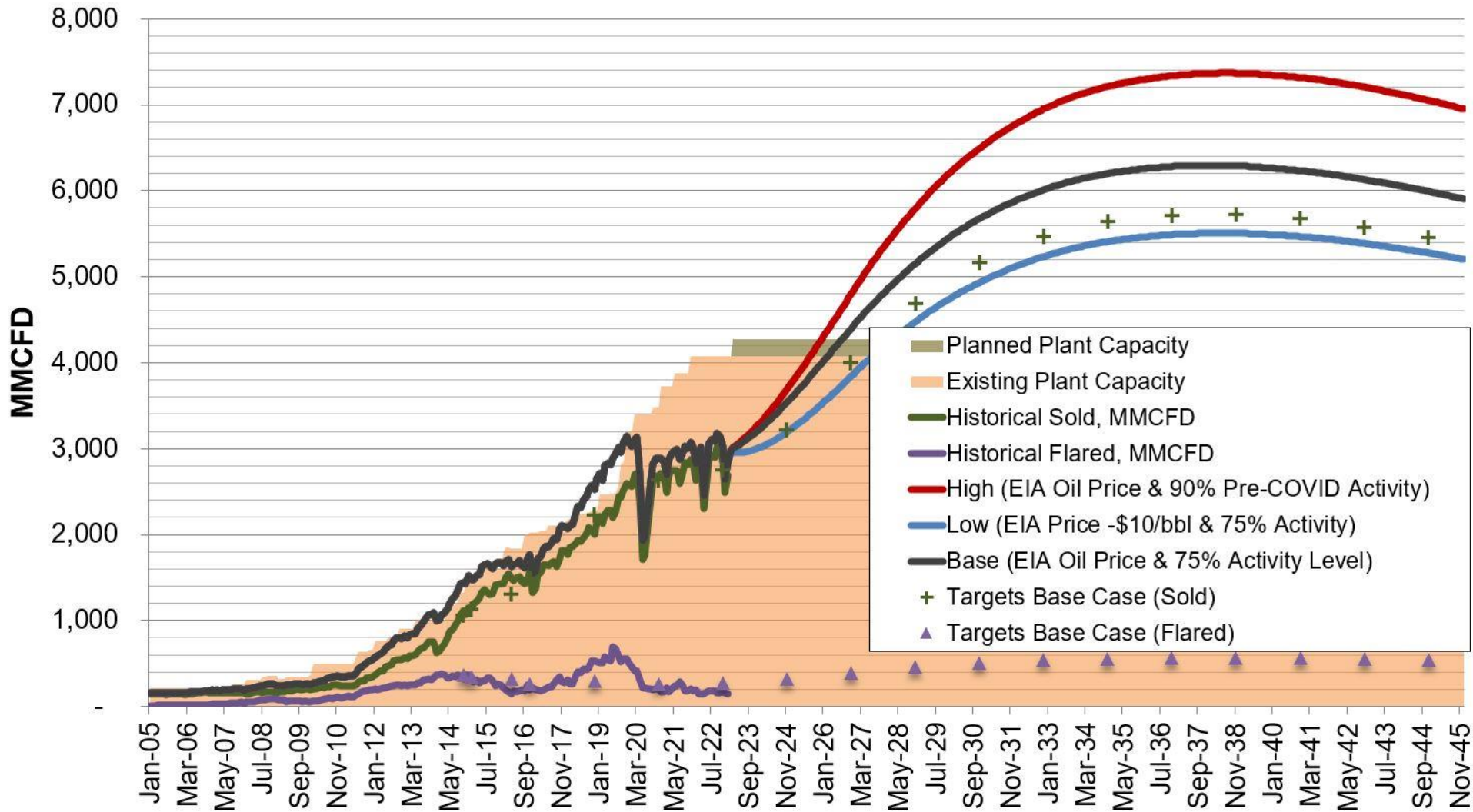
## West Texas Intermediate (WTI) crude oil price dollars per barrel



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

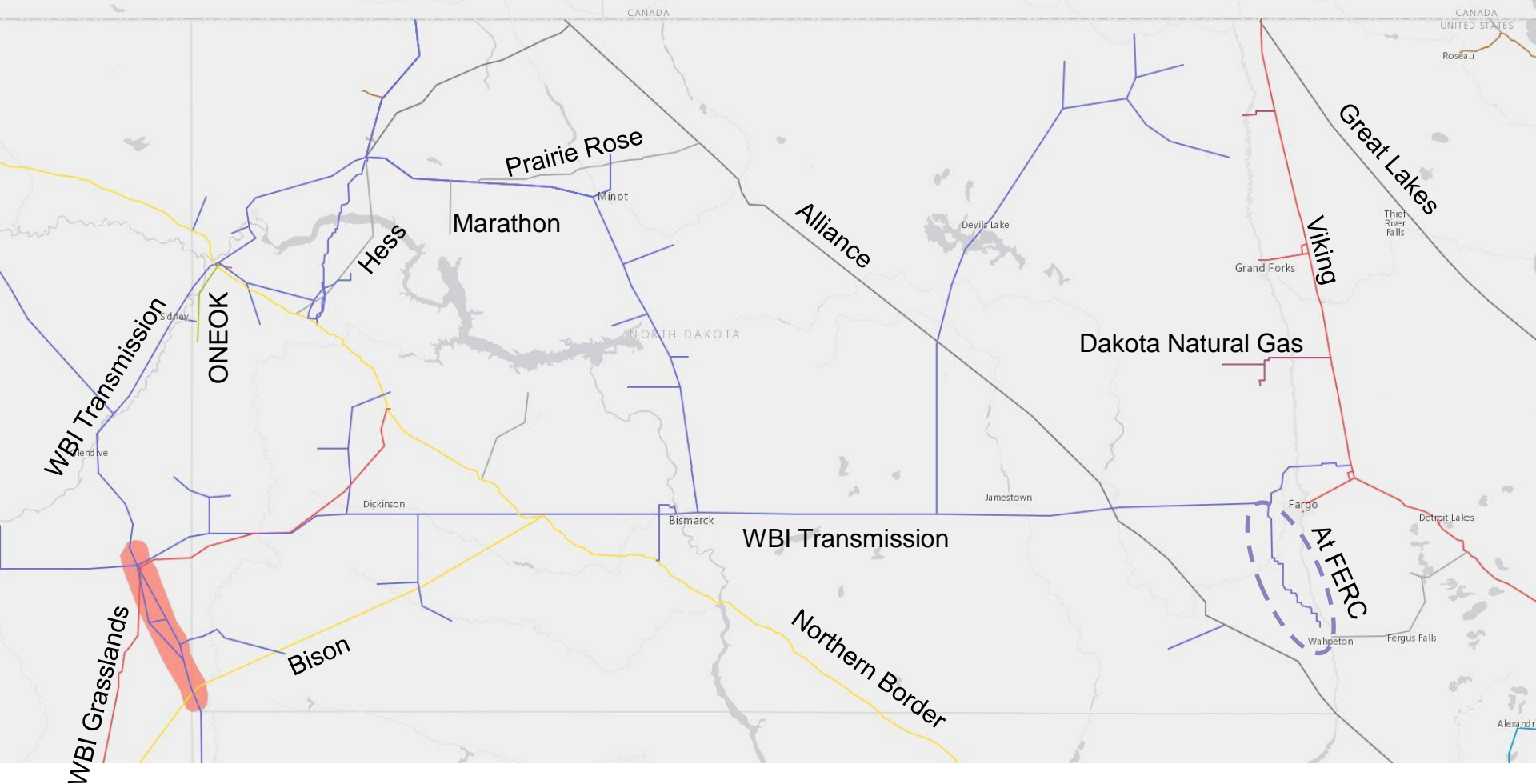


# Solving the Flaring Challenge

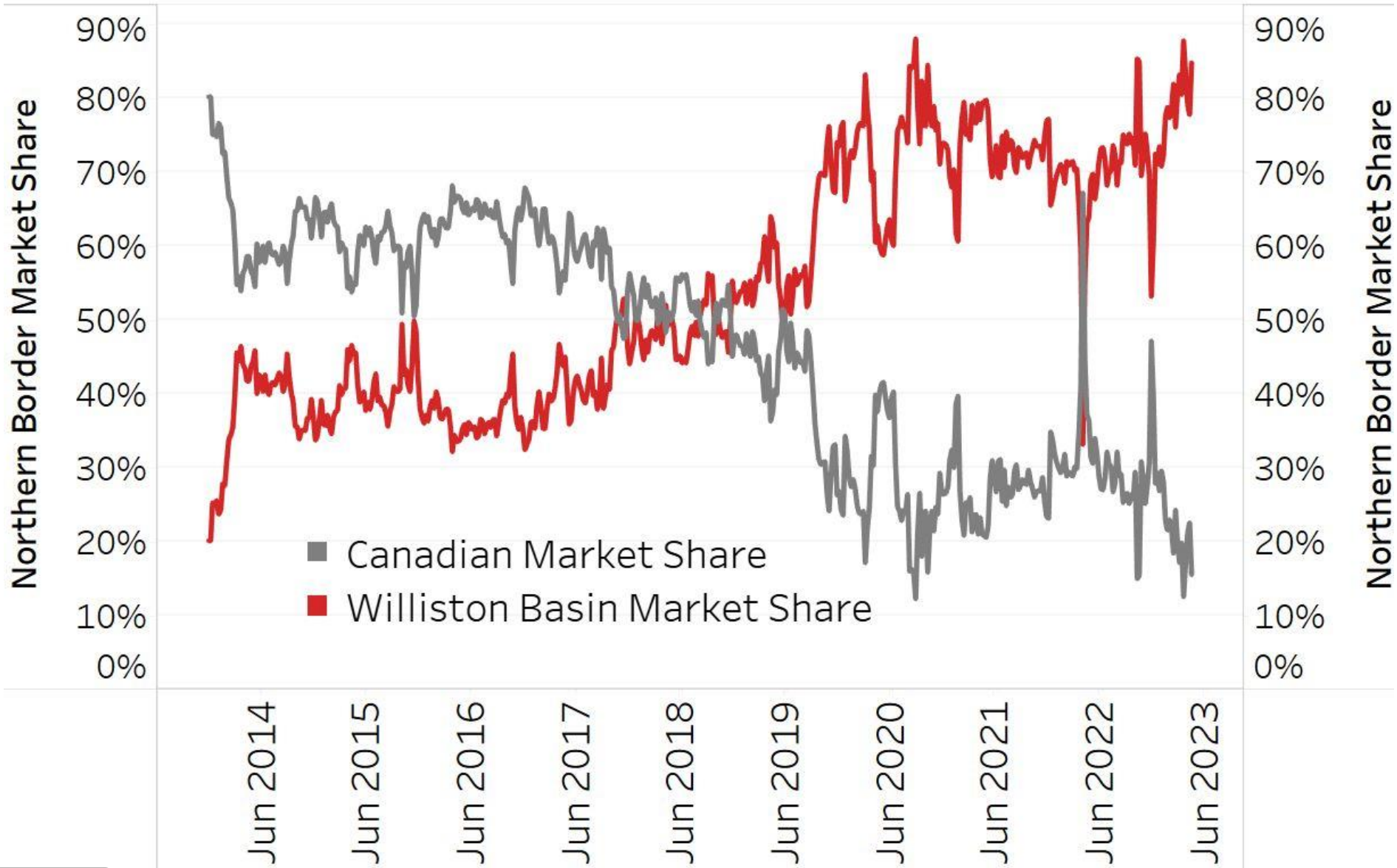




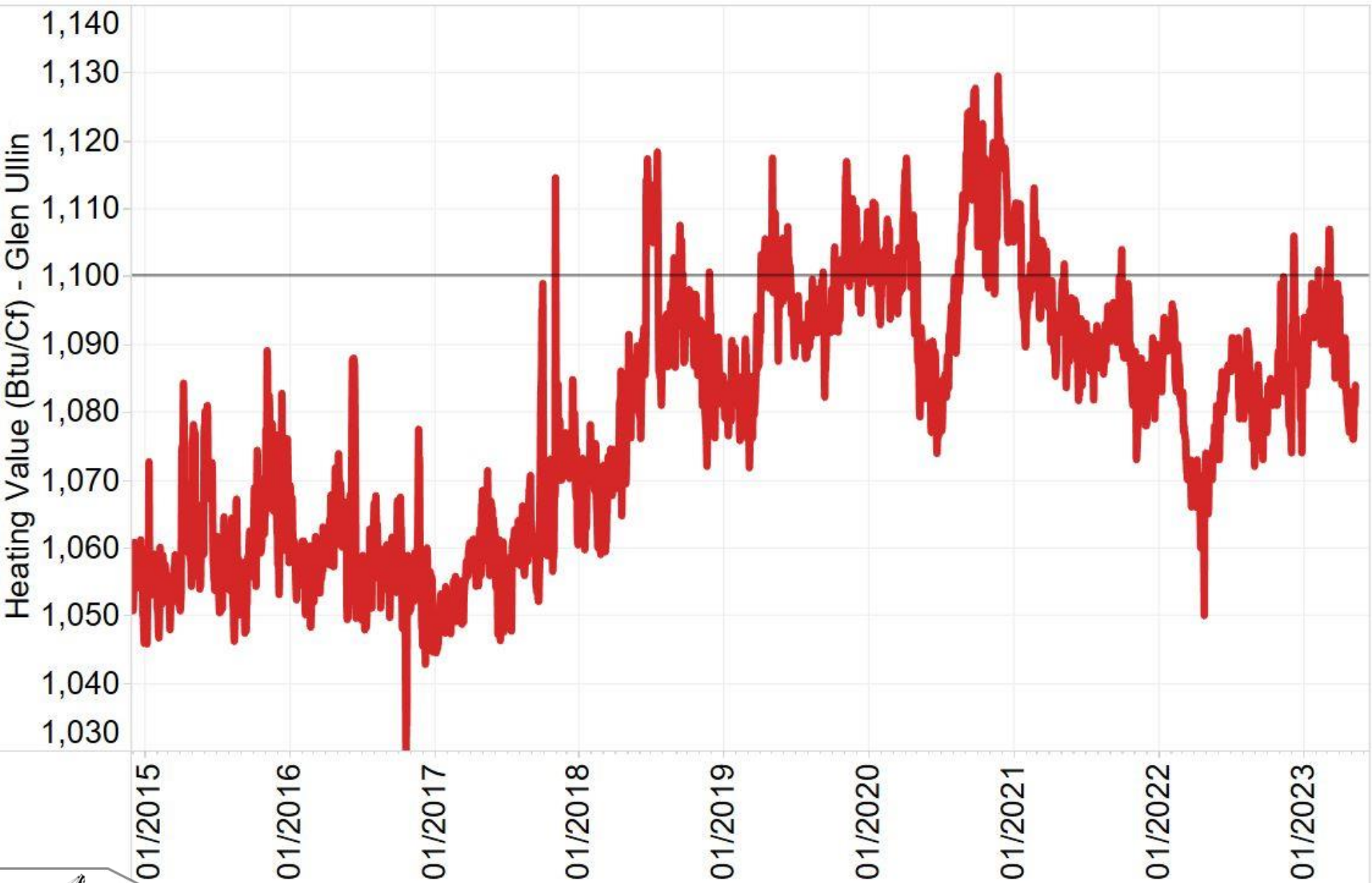
# Bakken Natural Gas Infrastructure



# Northern Border Pipeline Market Share

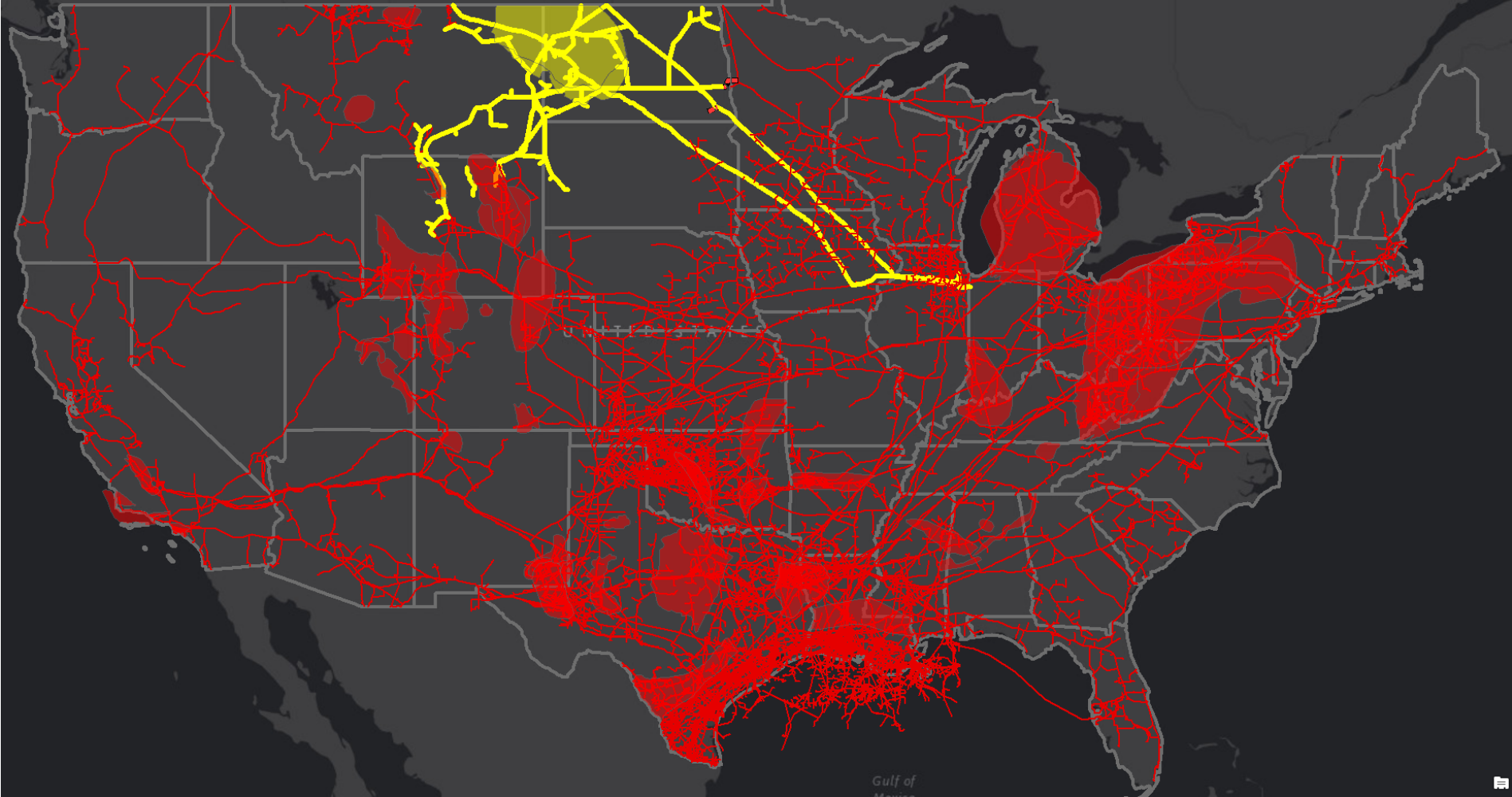


# Northern Border BTU at Glen Ullin, ND





# Bakken Natural Gas Infrastructure



# Contact Information

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