

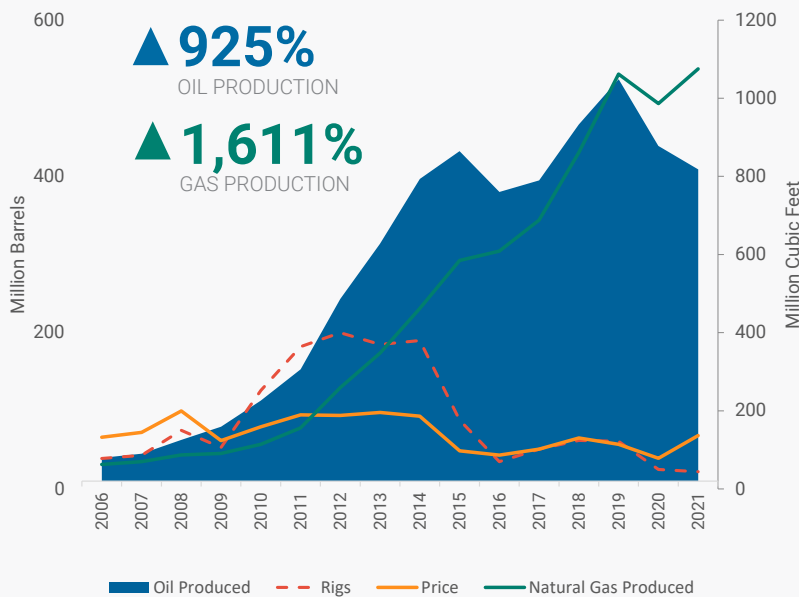
# OIL & GAS PRODUCTION IN NORTH DAKOTA



## A LEADING ENERGY PRODUCER

North Dakota has been an oil and gas producing state since 1951, but it is only recently that technology, particularly horizontal drilling and hydraulic fracturing, has unlocked the potential of the Bakken-Three Forks formations, making North Dakota a top oil producer for the nation.

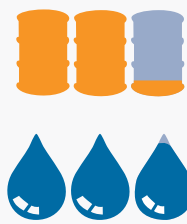
## HISTORICAL OIL PRODUCTION SINCE THE BAKKEN DISCOVERY



# 409 MILLION

BARRELS & 1 BILLION CUBIC FEET OF GAS PRODUCED IN 2021.

## AVERAGE DAILY PRODUCTION IN 2021



**1,120,549**  
BARRELS OF OIL

**2,945,351**  
MCF OF GAS

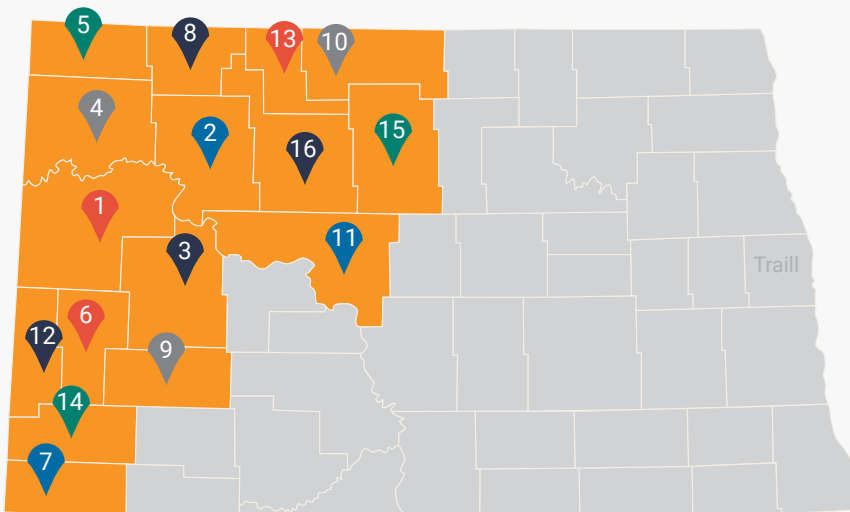
## 3RD LARGEST OIL-PRODUCING STATE

- Texas**
- New Mexico**
- North Dakota**

North Dakota is also a top 20 oil producer in the world.

## 16 COUNTIES ARE OIL AND GAS PRODUCERS

Oil and natural gas exploration has occurred in all but one of North Dakota's 53 counties: Traill County.



- |                             |                                |
|-----------------------------|--------------------------------|
| 1 McKenzie<br>438,230 bopd  | 9 Stark<br>5,765 bopd          |
| 2 Mountrail<br>234,388 bopd | 10 Bottineau<br>3,689 bopd     |
| 3 Dunn<br>226,579 bopd      | 11 McLean<br>1,780 bopd        |
| 4 Williams<br>150,445 bopd  | 12 Golden Valley<br>1,444 bopd |
| 5 Divide<br>14,070 bopd     | 13 Renville<br>1,315 bopd      |
| 6 Billings<br>10,946 bopd   | 14 Slope<br>635 bopd           |
| 7 Bowman<br>10,535 bopd     | 15 McHenry<br>142 bopd         |
| 8 Burke<br>7,361 bopd       | 16 Ward<br>49 bopd             |

bopd=barrels per day. Numbers are average production in 2021

## EFFICIENCY AND LONG-TERM PRODUCTION

Despite the downturn in the markets in recent years, production continues in North Dakota with many companies working to sustain production while increasing efficiencies and reducing costs. Today, a single rig can drill twice the wells of a rig in 2006 and the average well is producing twice as much oil.

2006



AVERAGE RIG DRILLED NINE WELLS AND AVERAGE WELL PRODUCED 989 BARRELS PER YEAR.

2021



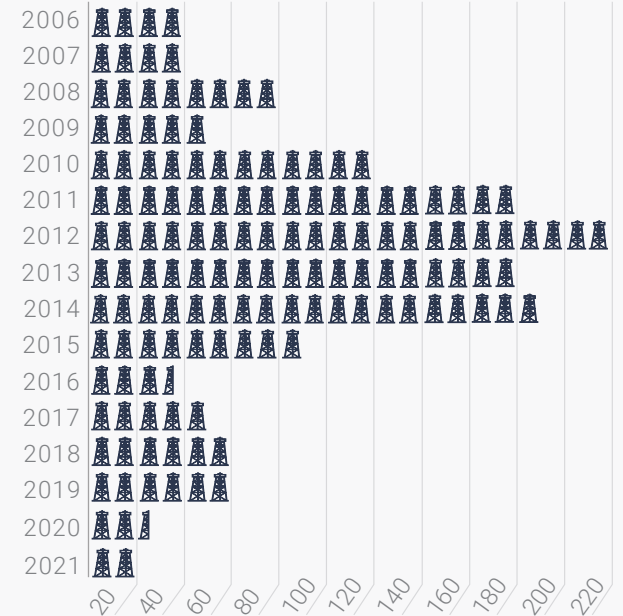
AVERAGE RIG CAN DRILL 25 WELLS AND AVERAGE WELL PRODUCES 2,109 BARRELS PER YEAR.

**17,128** PRODUCING WELLS IN 2021



**22** RIGS

on average operated in North Dakota in 2021. The all-time high was 218 rigs on May 29, 2012. Rig count, however, isn't a barometer of activity as technology and innovation have increased the amount of recoverable oil.



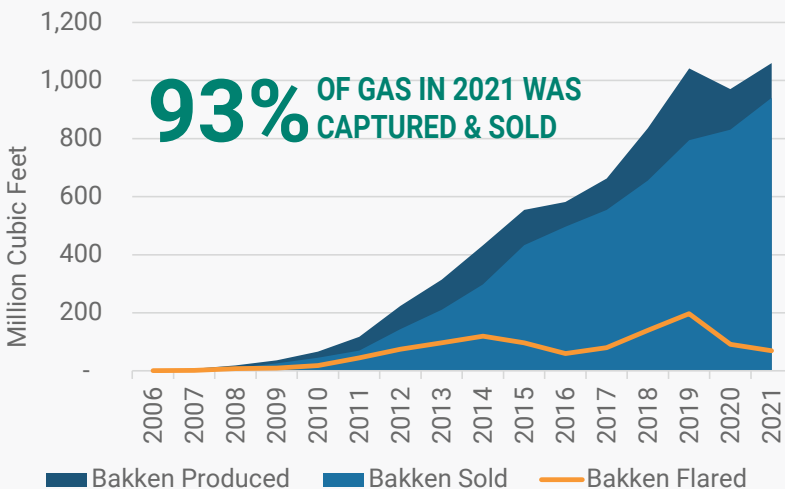
## GAS CAPTURE AND PROCESSING

**30** GAS PLANTS CURRENTLY OPERATING IN THE STATE

**4.04** BILLION CUBIC FEET PER DAY PROCESSING CAPACITY

**1,718%** INCREASE IN PROCESSING CAPACITY SINCE 2006

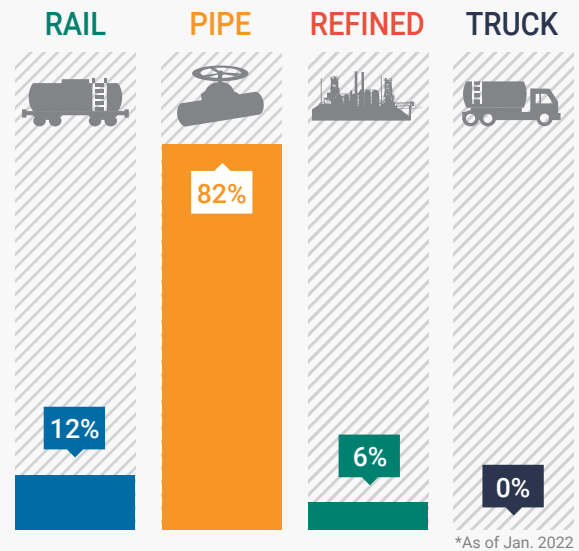
**\$25B** INVESTED IN NATURAL GAS INFRASTRUCTURE SINCE 2006



## REFINING AND TRANSPORTATION

Rail was once the predominant means of transporting oil to market, but today, more oil is shipped via pipelines helping alleviate truck and rail traffic and increasing the value of Bakken crude.

### PATHS TO MARKET\*



**911,000** BARRELS PER DAY total refining capacity from North Dakota's two refineries.