SENATE APPROPRIATIONS

SB 2345

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ND Oil Production: EIA Price Deck

- Base (EIA Oil Price & 75% Activity Level)
- High (EIA Oil Price & 90% Pre-COVID Activity)
- Low (EIA Price -$10/bbl & 75% Activity Level)

Continental Resources Sep. 2018 (30-40 Billion Barrels Recoverable)

NDPA Forecast

J.J. Kringstad - North Dakota Pipeline Authority
ND Gas Production: GOR Assumption

![Graph showing ND Gas Production: GOR Assumption](image-url)
Major Residue Gas Pipeline Infrastructure
Gas Transmission Expected to Limit Oil Production

- ND Gas Capped 4.475BCFD (250 MMCFD Residue Solution)
- ND Gas Capped 4.1BCFD (Current Capacity)
Gas Transmission Expected to Limit Oil Production

- ND Gas Capped 4.475BCFD (250 MMCFD Residue Solution)
- ND Gas Capped 4.1BCFD (Current Capacity)
- GOR

NDPA Base Forecast
Gas Transmission Expected to Limit Oil Production

- Oil Production: Gas Capped at 4.475 BCFD
- Oil Production: Gas Capped at 4.1 BCFD
- Incremental Oil With 250MMCFD Residue Solution
Incremental Oil & Gas Taxes*: 250 MMCFD Residue Gas Solution

*NDPA Calculation at $65 Wellhead Oil
Incremental Oil & Gas Taxes*: 250 MMCFD Residue Gas Solution

*NDPA Calculation at $65 Wellhead Oil
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Supplemental Slides
Natural Gas Processing

Raw Natural Gas (1400+ BTU) → Processing Plant

Consumer Quality Dry Natural Gas ("Residue")

Methane 57.67%

NGL’S (8-12 gpm)

Ethane 19.94%

Y-Grade or Fractionated

Propane 11.33%

Butane 3.80%

Natural Gasoline 1.29%
Northern Border Pipeline
Northern Border – BTU Calculations*

- **Base Case: Ethane Capture - NB Net 1,100 BTU - ~80 mbpd C2 Capture Required**
- **Low Case: Ethane Capture - NB Net 1,100 BTU - ~80 mbpd C2 Capture Required**

*Includes Proposed 2020 Tariff Timeline to 1,100*