

# Order of Operations Presentation

## House Finance Committee

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### Department of Revenue

February 9, 2023

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Chief Economist

Alaska Department of Revenue

**Colleen Glover**

Director, Tax Division

Alaska Department of Revenue



# Acronyms

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ANS – Alaska North Slope

ANWR – Arctic National Wildlife Refuge

Avg – Average

Bbl – Barrel

CBRF – Constitutional Budget Reserve Fund

CIT – Corporate Income Tax

DOR – Department of Revenue

FY – Fiscal Year

GVPP – Gross Value at Point of Production

GVR – Gross Value Reduction

NPR-A – National Petroleum Reserve Alaska

OCS – Outer Continental Shelf

PTV – Production Tax Value

SB21 – Senate Bill 21, passed in 2013

TAPS – Trans Alaska Pipeline System

Ths - Thousands



# Agenda

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- Oil and Gas Revenue Sources
  - How production tax fits in
  - FY 2021 – FY 2025 oil and gas revenues
- Production Tax Calculation “Order of Operations”
  - Detailed walk-through of each step of tax calculation for FY 2024
  - Defining commonly used terms
  - Focus on North Slope oil
  - FY 2021 – FY 2025 comparison



# Disclaimer

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- Alaska's severance tax is one of the most complex in the world and portions are subject to interpretation and dispute.
- These numbers are rough approximations based on public data, as presented in the Fall 2022 Revenue Sources Book and other revenue forecasts.
- This presentation is solely for illustrative general purposes.
  - Not an official statement as to any particular tax liability, interpretation, or treatment.
  - Not tax advice or guidance.
- Some numbers may differ due to rounding.



# Oil and Gas Revenue Sources

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- Royalty – based on gross value of production
  - Plus bonuses, rents, and interest
  - Paid to Owner of the land: State, Federal, or Private
  - Usually 12.5% or 16.67% in Alaska, but rates vary
- Corporate Income Tax – based on net income
  - Paid to State (9.4% top rate)
  - Paid to Federal (21% top rate)
  - Only C-Corporations\* pay this tax
- Property Tax – based on value of oil & gas property
  - Paid to State (2% of assessed value or “20 mills”)
  - Paid to Municipalities – credit offsets state tax paid
- Production Tax – based on “production tax value”
  - Paid to State – calculation to follow



\* C-Corporation is a business term that is used to distinguish the type of business entity, as defined under subchapter C of the federal Internal Revenue Code.

# Oil and Gas Revenue Sources: Five-Year Comparison of State Revenue

	History		Current Year	Forecast	
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
<b>ANS oil price (\$/bbl)</b>	\$54.14	\$91.41	\$88.45	\$81.00	\$77.00
<b>ANS production (thb bbl/ day)</b>	486.1	476.5	491.7	503.7	503.3
Property Tax*	\$ 119.2	\$ 122.4	\$ 116.3	\$ 114.0	\$ 112.0
Corporate Income Tax	(19.4)	297.5	390.0	320.0	285.0
Production Tax	388.9	1,809.3	1,618.4	1,236.9	1,019.7
Royalties	1,066.5	1,807.3	1,810.6	1,706.8	1,639.3
CBRF Settlements	35.0	21.1	145.0	20.0	20.0
NPR-A Shared revenue	15.8	16.7	32.1	52.3	66.5
<b>Total</b>	<b>\$ 1,606.1</b>	<b>\$ 4,074.3</b>	<b>\$ 4,112.4</b>	<b>\$ 3,450.1</b>	<b>\$ 3,142.4</b>



Revenue amounts in \$ millions.

\*Property Tax does not include municipal share.

Note: Numbers may not add due to rounding.

# Fiscal System: Overall Order of Operations

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Royalties (State, Federal, or Private)



Property Tax



Production Tax



State Corporate Income Tax



Federal Corporate Income Tax





# Production Tax “Order of Operations”: FY 2024

<i>Avg ANS Oil Price (\$/bbl) &amp; Daily Production (ths bbls)</i>	Per Barrel	Barrels	Value (\$ million)	
	\$81.00	503.7	\$40.8	
<b>Total Annual Production/Value</b>	\$81.00	184,337	\$14,931.3	
Royalty, Federal, and Other Barrels		(23,662)	(\$1,916.6)	
<b>Taxable Barrels</b>	\$81.00	160,675	\$13,014.7	
Downstream (Transportation) Costs (\$/bbl)	(\$9.37)		(\$1,505.5)	
<b>Gross Value at Point of Production (GVPP)</b>	\$71.63	160,675	\$11,509.2	
<b>North Slope Lease Expenditures</b>				
Deductible Operating Expenditures	(\$16.06)		(\$2,581.0)	
Deductible Capital Expenditures	(\$11.47)		(\$1,842.6)	
Total Lease Expenditures	(\$27.53)		(\$4,423.6)	
<b>Production Tax Value (PTV)</b>	\$44.10	160,675	\$7,085.6	
<b>Production Tax</b>			<u>Min Tax Floor</u>	<u>Net Tax</u>
Gross Value or Production Tax Value			\$11,509.2	\$7,085.6
Gross Value Reduction (GVR)			\$0.0	(\$145.8)
<b>GVPP or PTV after GVR</b>			\$11,509.2	\$6,939.8
<b>Tax rate</b>			4%	35%
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Other items / adjustments	\$0.10		\$16.9	
<b>Total Tax paid to the state</b>	\$7.70	160,675	\$1,236.9	
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## 1. Royalty and Taxable Barrels



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**2. Gross Value  
At Point of  
Production  
(GVPP)**



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## 3. Lease Expenditures



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**4. Production  
Tax Value (PTV)**



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**5. Gross  
Minimum Tax  
Floor**



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**6. Net Tax and  
Gross Value  
Reduction (GVR)**



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**7. Tax Credits  
Against  
Liability**





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**8. Adjustments  
and Total Tax Paid**

# Order of Operations: Five Year Comparison

	ACTUAL FY 2021		ACTUAL FY 2022		Current Year FY 2023		Forecast FY 2024		Forecast FY 2025	
	Value (\$ million)		Value (\$ million)		Value (\$ million)		Value (\$ million)		Value (\$ million)	
Total Annual Production/Value	\$9,605.1		\$15,897.9		\$15,875.9		\$14,931.3		\$14,144.2	
Royalty, Federal, and Other Barrels	(\$1,196.2)		(\$1,995.2)		(\$2,006.1)		(\$1,916.6)		(\$1,855.6)	
Taxable Barrels	\$8,408.9		\$13,902.7		\$13,869.7		\$13,014.7		\$12,288.6	
Transportation Costs	(\$1,427.9)		(\$1,486.3)		(\$1,555.2)		(\$1,505.5)		(\$1,506.7)	
Gross Value at Point of Production	\$6,981.0		\$12,416.4		\$12,314.6		\$11,509.2		\$10,781.9	
North Slope Lease Expenditures										
Deductible Operating Expenditures	(\$2,135.0)		(\$2,270.7)		(\$2,493.4)		(\$2,581.0)		(\$2,650.0)	
Deductible Capital Expenditures	(\$1,390.5)		(\$1,310.7)		(\$1,638.2)		(\$1,842.6)		(\$1,761.9)	
Total Lease Expenditures	(\$3,525.5)		(\$3,581.4)		(\$4,131.6)		(\$4,423.6)		(\$4,411.9)	
Production Tax Value (PTV)	\$3,455.5		\$8,835.0		\$8,183.0		\$7,085.6		\$6,370.0	
Production Tax	Min Tax Floor	Net Tax	Min Tax Floor	Net Tax	Min Tax Floor	Net Tax	Min Tax Floor	Net Tax	Min Tax Floor	Net Tax
Gross Value or Production Tax Value	\$6,981.0	\$3,455.5	\$12,416.4	\$8,835.0	\$12,314.6	\$8,183.0	\$11,509.2	\$7,085.6	\$10,781.9	\$6,370.0
Gross Value Reduction (GVR)	\$0.0	(\$66.3)	\$0.0	(\$202.3)	\$0.0	(\$192.6)	\$0.0	(\$145.8)	\$0.0	\$0.0
GVPP or PTV after GVR	\$6,981.0	\$3,389.2	\$12,416.4	\$8,632.7	\$12,314.6	\$7,990.4	\$11,509.2	\$6,939.8	\$10,781.9	\$6,370.0
Tax rate	4%	35%	4%	35%	4%	35%	4%	35%	4%	35%
Tax before credits	\$279.2	\$1,186.2	\$496.7	\$3,021.5	\$492.6	\$2,796.6	\$460.4	\$2,428.9	\$431.3	\$2,229.5
Higher of minimum tax floor or net tax	\$1,186.2		\$3,021.5		\$2,796.6		\$2,428.9		\$2,229.5	
Per-taxable-barrel credits	(\$748.8)		(\$1,017.6)		(\$1,134.6)		(\$1,208.2)		(\$1,238.2)	
Other credits against liability	(\$26.6)		(\$113.7)		(\$130.4)		(\$0.7)		(\$0.7)	
Total Tax after credits	\$410.8		\$1,890.1		\$1,531.6		\$1,220.0		\$990.6	
Other items / adjustments	(\$21.8)		(\$80.7)		\$86.8		\$16.9		\$29.1	
Total Tax paid to the state <sup>1</sup>	\$389.0		\$1,809.4		\$1,618.4		\$1,236.9		\$1,019.7	
Net New Lease Expenditures Earned and Carried Forward	\$389.7		\$417.1		\$696.6		\$881.9		\$796.1	
Total Carried Forward Lease Expenditures	\$485.2		\$902.3		\$1,598.9		\$2,480.8		\$3,276.9	
Effective Tax Rate	11%		20%		20%		17%		16%	

<sup>1</sup> Amount includes hazardous release surcharge for FY 2021 but not FY 2022+

<sup>1</sup> Amount includes hazardous release surcharge for FY 2021 but not FY 2022+



# Illustration Assuming a Single North Slope Taxpayer: FY 2024

	Per Barrel	Barrels	Value (\$ million)	
<b>Avg ANS Oil Price (\$/bbl) &amp; Daily Production (ths bbls)</b>	\$81.00	503.7	\$40.8	
<b>Total Annual Production/Value</b>	\$81.00	184,337	\$14,931.3	
Royalty, Federal, and Other Barrels		(23,662)	(\$1,916.6)	
<b>Taxable Barrels</b>	\$81.00	160,675	\$13,014.7	
Downstream (Transportation) Costs (\$/bbl)	(\$9.37)		(\$1,505.5)	
<b>Gross Value at Point of Production (GVPP)</b>	\$71.63	160,675	\$11,509.2	
<b>North Slope Lease Expenditures</b>				
Deductible Operating Expenditures	(\$16.06)		(\$2,581.0)	
Deductible Capital Expenditures	(\$11.47)		(\$1,842.6)	
Total Lease Expenditures	(\$27.53)		(\$4,423.6)	
<b>Production Tax Value (PTV)</b>	\$44.10	160,675	\$7,085.6	
<b>Production Tax</b>			<u>Min Tax Floor</u>	<u>Net Tax</u>
Gross Value or Production Tax Value			\$11,509.2	\$7,085.6
Gross Value Reduction (GVR)			\$0.0	(\$142.8)
<b>GVPP or PTV after GVR</b>			\$11,509.2	\$6,942.8
Tax rate			4%	35%
<b>Tax before credits</b>			\$460.4	\$2,430.0
<b>Higher of minimum tax floor or net tax</b>	\$15.12	160,675	\$2,430.0	
GVR Per-taxable-barrel credits	(\$5.00)	9,967	(\$49.8)	
Non-GVR Per-taxable barrel credits	(\$8.00)	150,708	(\$1,205.7)	
<b>Total Tax after credits</b>	\$7.31	160,675	\$1,174.5	
Other items/adjustments			\$16.2	
<b>Total Tax paid to state</b>	\$7.41	160,675	\$1,190.7	

Single producer realizes full value of per-taxable-barrel credits

*This illustration assumes a single North Slope taxpayer for simplification and will not equate to the FY 2023 production tax estimate. In practice, the application of the per-taxable barrel credits will depend on the individual taxpayer's circumstances.*



# State Petroleum Revenue by Land Type

Land Lease Status	Revenue Component			
	Production Tax / Credits	Royalty	Corporate Income Tax	Property Tax
<b>Offshore beyond 6 miles Federal OCS</b>	Does not apply	Federal royalties applies; zero shared back to state (in Alaska; other states do receive shared royalties)	Not included in apportionment factor	Does not apply
<b>Offshore 3-6 miles Federal OCS 8(g) area</b>	Does not apply	Federal royalties applies; 27% shared back to state with no restrictions	Not included in apportionment factor	Does not apply
<b>State Lands</b>	All credits available; tax applies to all taxable production	State royalty applies	All property, production, and sales included in apportionment factor	Applies to all oil and gas property
<b>NPR-A Federal owned</b>	All credits available; tax applies to all taxable production	Federal royalty applies; 50% of royalties are shared back to state but must be used for benefit of local communities	All property, production, and sales included in apportionment factor	Applies to all oil and gas property
<b>ANWR Federal owned</b>	All credits available; tax applies to all taxable production	Federal royalty applies; 50% shared back to state with no restrictions (under current law)	All property, production, and sales included in apportionment factor	Applies to all oil and gas property
<b>Other Federal Land</b>	All credits available; tax applies to all taxable production	Federal royalties applies; 90% shared back to state with no restrictions	All property, production, and sales included in apportionment factor	Applies to all oil and gas property
<b>Private Land (including Alaska Native Corporations)</b>	All credits available; tax applies to all taxable production	Privately negotiated royalty applies; not shared with state. However state levies 5% gross tax on the value of private landowner royalty interest as part of production tax	All property, production, and sales included in apportionment factor	Applies to all oil and gas property



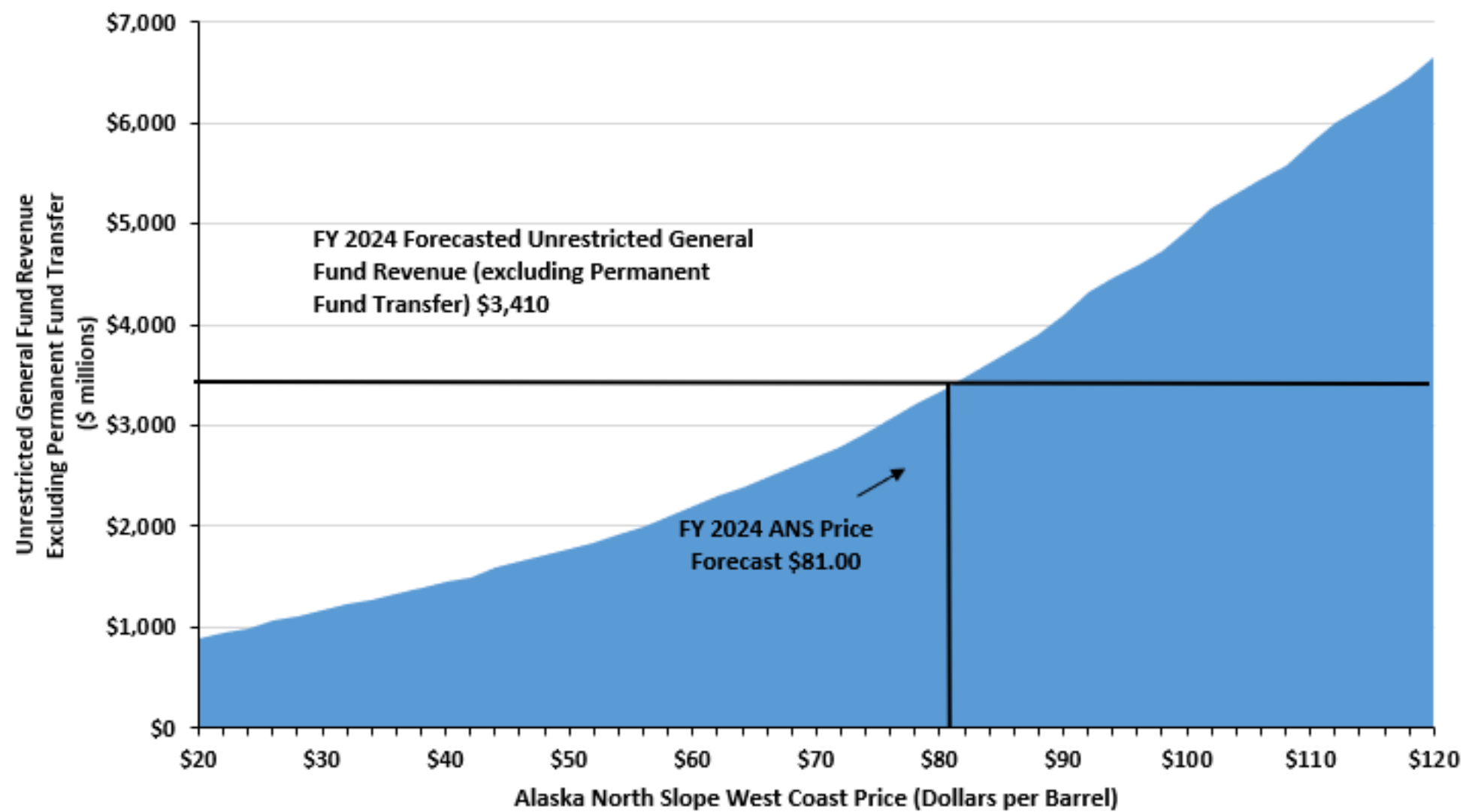
# Gross Value Reduction

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- Gross Value Reduction (GVR) is an incentive program for new fields.
- Available for the first seven years of production and ends early if ANS prices average over \$70 per barrel for any three years.
- Allows companies to exclude 20% or 30% of the gross value from the net production tax calculation.
- In lieu of sliding scale Non-GVR Per-Taxable Barrel Credit, qualifying production receives a flat \$5 GVR Per-Taxable-Barrel Credit.
- The \$5 GVR Per-Taxable-Barrel Credit can be applied to reduce tax liability below the minimum tax floor, assuming that the producer does not apply any sliding scale Non-GVR Per-Taxable Barrel Credits.



# Petroleum Detail: UGF Relative to Price per Barrel (without POMV), FY 2024



## Petroleum Detail: UGF Relative to Price per Barrel (without POMV), FY 2024–FY 2026 \*

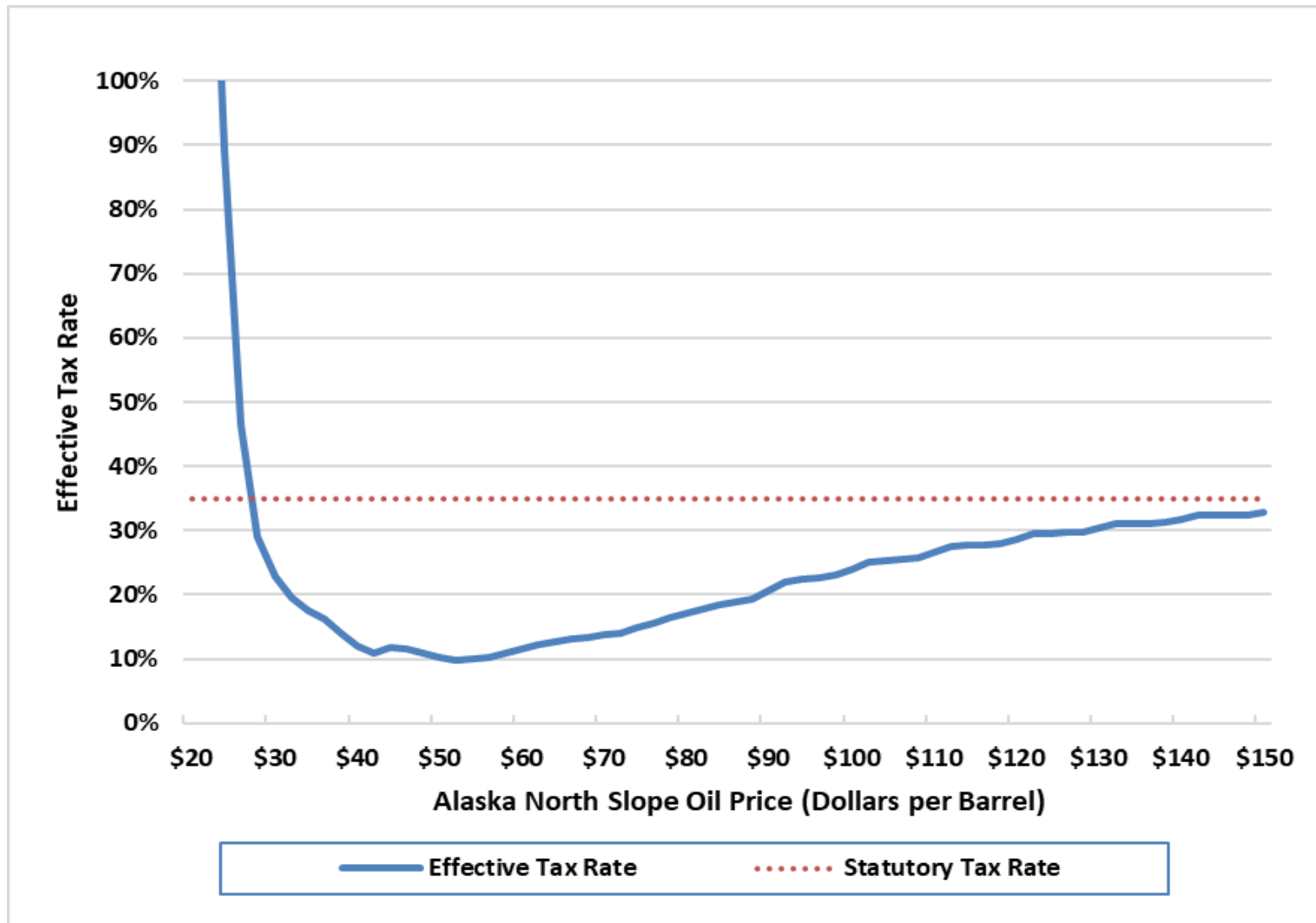
		Millions of Dollars		
	Alaska North Slope Dollars per Barrel	FY 2024	FY 2025	FY 2026
1	<b>Official Forecast</b>	3,410	3,124	2,965
2	20.00	890	900	910
3	30.00	1,170	1,160	1,170
4	40.00	1,440	1,430	1,450
5	50.00	1,770	1,780	1,790
6	60.00	2,190	2,190	2,160
7	70.00	2,690	2,680	2,650
8	80.00	3,340	3,330	3,310
9	90.00	4,100	4,150	4,120
10	100.00	4,940	4,960	5,000
11	110.00	5,790	5,850	5,820
12	120.00	6,660	6,720	6,680

\* Fall 2022 Revenue Sources Book Appendix A-1





## Petroleum Detail: Oil & Gas Production Tax Statutory and Effective Tax Rates, FY 2024



# THANK YOU

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