### Alaska Oil and Gas Production Tax Calculation ("Order of Operations")



Presented by

Bruce Tangeman, Commissioner Designee Dan Stickel, Chief Revenue Economist Department of Revenue, Tax Division

April 15, 2019 – House Resources Committee

#### Acronyms used in this presentation

- ANS Alaska North Slope
- Avg Average
- Bbl Barrel
- CBRF Constitutional Budget Reserve Fund
- CIT Corporate Income Tax
- DOR Department of Revenue
- GVPP Gross Value at Point of Production
- GVR Gross Value Reduction
- Min Minimum
- NPR-A National Petroleum Reserve Alaska
- PTV Production Tax Value
- Ths Thousands
- FY Fiscal Year

#### Overview

- Oil and Gas revenue sources how production tax fits in oFY 2017 – FY 2021 oil and gas revenues
- Production tax calculation "order of operations"
  - oDetailed walk-through of each step of tax calculation
  - oFocus on North Slope oil
  - oFY 2017 FY 2021 comparison
- Distribution of Cash Flows for North Slope oil

#### Disclaimer

- 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 spring 2019 forecasts and other revenue forecasts.
- We are economists, not auditors. This presentation is not an official statement of the Department as to any particular tax liability, interpretation, or treatment. This is not tax advice or guidance. This presentation is solely for illustrative general purposes.

#### Oil and Gas Revenue Sources

- Royalty based on gross value of production oplus bonuses, rents & interest oPaid to owner of the land: State, Federal, or private oUsually 12.5% in Alaska, but rates vary
- Corporate Income Tax based on net income oPaid to State (9.4% top rate)
   oPaid to Federal (21% top rate, used to be 35%)
   oOnly C-corporations pay this tax \*
- Property Tax based on value of oil & gas property oPaid to State (2% of assessed value or "20 mills" oPaid to Municipalities – credit offsets state tax paid
- Production Tax based on "production tax value"
   Paid to State calculation to follow

<sup>\* &</sup>quot;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 – 5 year comparison of state revenue

	FY	FY 2017		FY 2018		FY 2019		FY 2020		2021
ANS oil price (\$/bbl)	\$	49.43	\$	63.61	\$	69.80	\$	66.00	\$	66.00
ANS production (ths bbl/day)		526.4		518.4		511.5		529.5		511.7
Property Tax *	\$	120	\$	122	\$	123	\$	121	\$	116
Corporate Income Tax	\$	(59)	\$	66	\$	195	\$	210	\$	210
Production Tax	\$	134	\$	750	\$	735	\$	525	\$	511
Royalties	\$	1,021	\$	1,365	\$	1,453	\$	1,298	\$	1,242
CBRF Settlements	\$	482	\$	121	\$	125	\$	150	\$	125
NPR-A Shared revenue	\$	1	\$	24	\$	8	\$	11	\$	10
Total	\$	1,700	\$	2,448	\$	2,639	\$	2,314	\$	2,214

Revenue amounts in \$ millions. Source: DOR Spring 2019 forecast.

<sup>\*</sup> Property Tax is does not include municipal share.

	Per Barrel	Barrels	Value (\$	million)
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5		
Total Annual Production/Value		193,782	\$12,7	<b>789.6</b>
Royalty and Federal barrels		(21,595)	(\$1,4	125.3)
Taxable barrels		172,187	\$11,3	864.4
Downstream (Transportation) Costs (\$/bbl)	(\$8.81)	172,187	(\$1,5	516.3)
Gross Value at Point of Production (GVPP)	\$57.19	172,187	\$9,8	48.1
North Slope Lease Expenditures				
Deductible Operating Expenditures	(\$15.55)		(\$2,6	577.7)
Deductible Capital Expenditures	(\$11.71)		(\$2,0	)16.5)
Total Lease Expenditures	(\$27.26)	172,187	(\$4,694.2)	
Production Tax Value (PTV)	\$29.93		\$5,153.8	
Production Tax			Min Tax	Net Tax
Gross Value or Production Tax Value			\$9,848.1	\$5,153.8
Gross Value Reduction (GVR)			\$0.0	(\$128.0)
GVPP or PTV after GVR			\$9,848.1	\$5,025.8
Tax rate			4%	35%
Tax before credits	\$2.29 (Min) / \$	10.22 (Net)	\$393.9	\$1,759.0
Higher of minimum or net tax			\$1,7	59.0
Per-taxable-barrel credits	-\$7.29		(\$1,2	255.7)
Other credits against liability			(\$22.0)	
Total Tax after credits	\$2.80		\$481.3	
Other items / adjustments			\$43.4	
Total Tax paid to the state			\$524.7	
Non-Deductible Lease Expenditures - carried forward			\$82	3.6

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1. Royalty & Taxable Barrels

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Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$82	23.6	

2. Gross Value At Point of Production (GVPP)

			•		
	Per Barrel	Barrels	Value (\$	million)	
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5			
Total Annual Production/Value		193,782	\$12.7	789.6	
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Total Tax after credits	\$2.80		\$481.3		
Other items / adjustments			\$43.4		
Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$823.6		
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3. Lease Expenditures

	Per Barrel	Barrels	Value (\$	million)	
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5			
Total Annual Production/Value		193,782	\$12,789.6		
Royalty and Federal barrels		(21,595)	(\$1,4	125.3)	
Taxable barrels		172,187	\$11,3	364.4	
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Higher of minimum or net tax			\$1,7	59.0	
Per-taxable-barrel credits	-\$7.29		(\$1,2	255.7)	
Other credits against liability			(\$2	2.0)	
Total Tax after credits	\$2.80		\$481.3		
Other items / adjustments			\$43.4		
Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$82	23.6	

4. Production Tax Value (PTV)

	Per Barrel	Barrels	Value (	million)
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5		
Total Annual Production/Value		193,782	\$12,7	789.6
Royalty and Federal barrels		(21,595)	(\$1,4	425.3)
Taxable barrels		172,187	\$11,	364.4
Downstream (Transportation) Costs (\$/bbl)	(\$8.81)	172,187	(\$1,!	516.3)
Gross Value at Point of Production (GVPP)	\$57.19	172,187	\$9,8	48.1
North Slope Lease Expenditures				
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Deductible Capital Expenditures	(\$11.71)		(\$2,0	016.5)
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Production Tax			<u>Min Tax</u>	<u>Net Tax</u>
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Other credits against liability			(\$22.0)	
Total Tax after credits	\$2.80		\$481.3	
Other items / adjustments			\$43.4	
Total Tax paid to the state			\$524.7	
Non-Deductible Lease Expenditures - carried forward			\$82	23.6

**5. Gross Minimum** Tax

	Per Barrel	Barrels	Value (\$	million)	
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5			
Total Annual Production/Value		193,782	\$12,7	89.6	
Royalty and Federal barrels		(21,595)	(\$1,4	25.3)	
Taxable barrels		172,187	\$11,3	64.4	
Downstream (Transportation) Costs (\$/bbl)	(\$8.81)	172,187	(\$1,5	516.3)	
Gross Value at Point of Production (GVPP)	\$57.19	172,187	\$9,8	48.1	
North Slope Lease Expenditures					
Deductible Operating Expenditures	(\$15.55)		(\$2,6	577.7)	
Deductible Capital Expenditures	(\$11.71)		(\$2,0	)16.5)	
Total Lease Expenditures	(\$27.26)	172,187	(\$4,6	594.2)	
Production Tax Value (PTV)	\$29.93		\$5,1	53.8	
Production Tax			<u>Min Tax</u>	Net Tax	
Gross Value or Production Tax Value			\$9,848.1	\$5,153.8	
Gross Value Reduction (GVR)			\$0.0	(\$128.0)	
GVPP or PTV after GVR			\$9,848.1	\$5,025.8	
Tax rate			4%	35%	
Tax before credits	\$2.29 (Min) / \$	10.22 (Net)	\$393.9	\$1,759.0	
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Other credits against liability			(\$22.0)		
Total Tax after credits	\$2.80		\$481.3		
Other items / adjustments			\$43.4		
Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$823.6		

6. Net Tax and Gross Value Reduction (GVR)

	Per Barrel	Barrels	Value (\$	million)	
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5			
Total Annual Production/Value		193,782	\$12,789.6		
Royalty and Federal barrels		(21,595)		125.3)	
Taxable barrels		172,187	\$11,3	364.4	
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GVPP or PTV after GVR			\$9,848.1	\$5,025.8	
Tax rate			4%	35%	
Tax before credits	\$2.29 (Min) / \$	10.22 (Net)	\$393.9	\$1,759.0	
Higher of minimum or net tax			\$1,7	59.0	
Per-taxable-barrel credits	-\$7.29		(\$1,2	255.7)	
Other credits against liability			(\$22.0)		
Total Tax after credits	\$2.80		\$481.3		
Other items / adjustments			\$43.4		
Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$82	23.6	

7. Tax Credits against liability

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	Per Barrel	Barrels	Value (\$	million)	
Avg ANS Oil Price (\$/bbl) & Daily Production (ths bbls)	\$66.00	529.5			
Total Annual Production/Value		193,782	\$12,789.6		
Royalty and Federal barrels		(21,595)		125.3)	
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Tax before credits	\$2.29 (Min) / \$	10.22 (Net)	\$393.9	\$1,759.0	
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Total Tax after credits	\$2.80		\$481.3		
Other items / adjustments			\$43.4		
Total Tax paid to the state			\$524.7		
Non-Deductible Lease Expenditures - carried forward			\$82	23.6	

8. Adjustments and Total Tax Paid

### Order of Operations – 5 year comparison

	_	UAL 2017	ACTUAL FY 2018		Current Year FY 2019		Forecast FY 2020		Forecast FY 2021					
	Value (\$	million)	Value (\$ million)		Value (\$ million)		Value (\$ million)		Value (\$ million)					
<b>Total Annual Production/Value</b>	\$9,4	99.1	\$12,0	036.0	\$12,8	362.4	\$12,7	789.6	\$12,326.7					
Royalty and Federal barrels	(\$1,2	234.8)	(\$1,4	144.2)	(\$1,537.9)		(\$1,425.3)		(\$1,362.1)					
Taxable barrels	\$8,2	64.2	\$10,5	591.8	\$11,3	324.5	\$11,3	864.4	\$10,9	64.6				
Downstream (Transportation) Costs (\$/bbl)	(\$1,6	521.8)	(\$1,5	585.7)	(\$1,3	382.5)	(\$1,5	516.3)	(\$1,4	179.6)				
Gross Value at Point of Production (GVPP)	\$6,6	42.4	\$9,0	06.1	\$9,9	42.0	\$9,8	48.1	\$9,4	85.0				
North Slope Lease Expenditures										ļ				
Deductible Operating Expenditures	(\$2,8	335.6)	s) (\$2,581.0) (\$2,631.1)		(\$2,631.1)		(\$2,6	577.7)	(\$2,676.1)					
Deductible Capital Expenditures	(\$1,6	546.8)	(\$1,485.1)		(\$1,631.3)		(\$2,016.5)		(\$2,080.9)					
Total Lease Expenditures	(\$4,4	182.4)	(\$4,0	066.1)	(\$4,262.4)		(\$4,694.2)		(\$4,694.2)		(\$4,7	757.0)		
Production Tax Value (PTV)	\$2,160.0		\$4,9	\$4,940.0 \$5,679.6		\$5,679.6		\$5,679.6		\$5,679.6		\$5,153.8		28.0
Production Tax	Min Tax	Net Tax	Min Tax	Net Tax	Min Tax	Net Tax	Min Tax	Net Tax	Min Tax	Net Tax				
Gross Value or Production Tax Value	\$6,642.4	\$2,160.0	\$9,006.1	\$4,940.0	\$9,942.0	\$5,679.6	\$9,848.1	\$5,153.8	\$9,485.0	\$4,728.0				
Gross Value Reduction (GVR)	\$0.0	(\$73.4)	\$0.0	(\$91.1)	\$0.0	(\$96.3)	\$0.0	(\$128.0)	\$0.0	(\$126.3)				
GVPP or PTV after GVR	\$6,642.4	\$2,086.6	\$9,006.1	\$4,848.9	\$9,942.0	\$5,583.3	\$9,848.1	\$5,025.8	\$9,485.0	\$4,601.7				
Tax rate	4%	35%	4%	35%	4%	35%	4%	35%	4%	35%				
Tax before credits	\$265.7	\$730.3	\$360.2	\$1,697.1	\$397.7	\$1,954.2	\$393.9	\$1,759.0	\$379.4	\$1,610.6				
Higher of minimum or net tax	\$73	80.3	\$1,6	97.1	\$1,9	54.2	\$1,759.0		\$1,610.6					
Per-taxable-barrel credits	(\$53	36.0)	(\$1,0	027.0)	(\$1,2	241.5)	(\$1,2	255.7)	(\$1,1	121.7)				
Other credits against liability	(\$3	4.0)	(\$6	60.0)	(\$3	86.2)	(\$2	2.0)	(\$1	4.0)				
Total Tax after credits	\$16	0.3	\$61	.0.1	\$67	6.5	\$48	1.3	\$47	4.9				
Other items / adjustments	(\$2	5.8)	\$13	39.8	\$5	8.5	\$43	3.4	\$3!	5.7				
Total Tax paid to the state	\$13	4.5	\$74	9.9	\$73	5.0	\$52	4.7	\$51	0.6				
Non-Deductible Lease Expenditures - carried forward (or credit at 35% prior to 2018)	\$31	8.1	\$31	12.5	\$35	59.2	\$82	3.6	\$1,4.	25.6				

#### Thank You

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### Addendum – FY 2020 Distribution of Cash Flows

#### Distribution of Cash Flows – North Slope Oil

- Share of net cash flows after transportation costs and lease expenditures that go to government vs company
- Modeled two ways
   Typical non-GVR production
  - All No 11 Cl
  - oAll North Slope production and spending

# Distribution of Cash Flows – North Slope Oil Typical Non-GVR Production

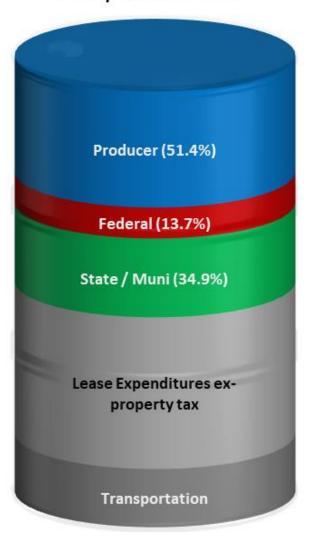
- Charts shown are produced using DOR "Snapshot" model
- Assumes a single company with all deductible costs
- Simplifying assumptions such as non-GVR oil only; North Slope only; etc.
- Transportation costs, production, and lease expenditures, and other assumptions from Spring 2019 forecast for FY 2020
- Prices are expressed in nominal terms

Transportation Costs (\$/bbl)	8.81
Royalty Rate	12.5%
State CIT Rate	6.50%
Federal CIT Rate	21.00%
Deductible Upstream CAPEX (\$/ total bbl)*  Deductible Upstream OPEX (\$/ total bbl)*  Total Upstream Costs (\$/ bbl)*	10.41 <u>13.82</u> 24.23
Daily Production (ths bbls / day) Property Tax (\$/bbl)	529.5 1.25

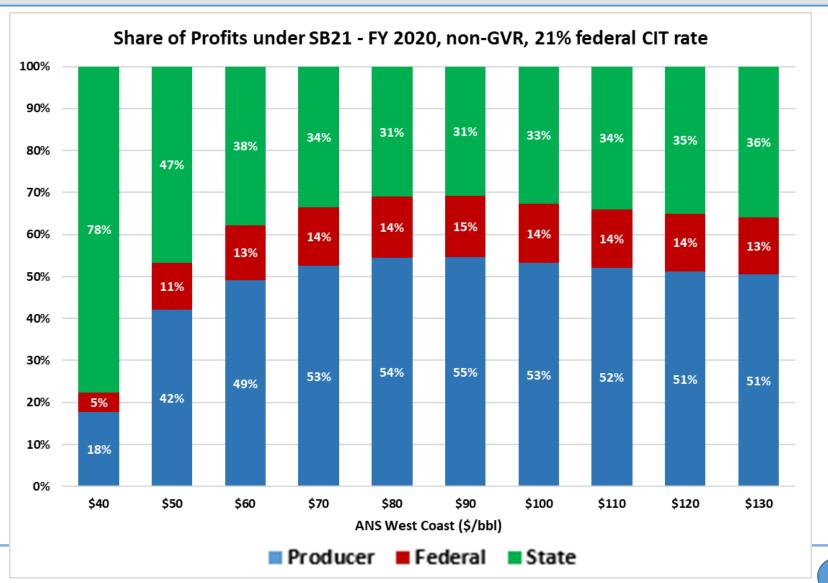
<sup>\*</sup> Upstream cost in this analysis is calculated per each barrel produced including royalty barrels. Costs represent total estimated deductible costs for FY 2020, and incorporate estimated industry spending in the Spring 2019 forecast.

# Distribution of Cash Flows from One Barrel of Typical Non-GVR Production

FY 2020 Allocation of Revenue and Profit on a barrel of oil under SB21 and \$66 ANS Price



# Government Take at Range of Prices from Typical Non-GVR Production



# Distribution of Cash Flows – North Slope Oil Using All Slope-wide Production and Costs

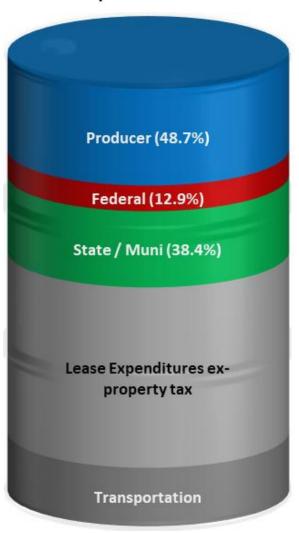
- Charts shown are produced using DOR "Snapshot" model
- Assumes a two companies with all costs (one GVR, one non-GVR)
- Simplifying assumptions such as oil only; North Slope only; etc.
- Transportation costs, production, and lease expenditures, and other assumptions from Spring 2019 forecast for FY 2020
- Prices are expressed in nominal terms

Transportation Costs (\$/bbl)	8.81
Royalty Rate	12.5%
State CIT Rate	6.50%
Federal CIT Rate	21.00%
TOTAL Upstream CAPEX (\$/ total bbl)*	14.02
TOTAL Upstream OPEX (\$/ total bbl)*	<u>14.46</u>
Total Upstream Costs (\$/ bbl)*	28.48
Daily Production (ths bbls / day)	529.5
GVR Production (ths bbls / day)	47.2
Property Tax (\$/bbl)	1.25

<sup>\*</sup> Upstream cost in this analysis is calculated per each barrel produced including royalty barrels. Costs represent total estimated deductible costs for FY 2020, and incorporate estimated industry spending in the Spring 2019 forecast.

### Distribution of Cash Flows from One Barrel, Using All Slope-wide Production and Costs

FY 2020 Allocation of Revenue and Profit on a barrel of oil under SB21 and \$66 ANS Price



## Government Take at Range of Prices, Using All Slope-wide Production and Costs

