

# COMMENTS ON HCS CSSB 305 (FIN)

House Finance Committee

April 15, 2010

Alaska Department of Revenue

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# Concerns Regarding HCS CSSB 305(FIN)

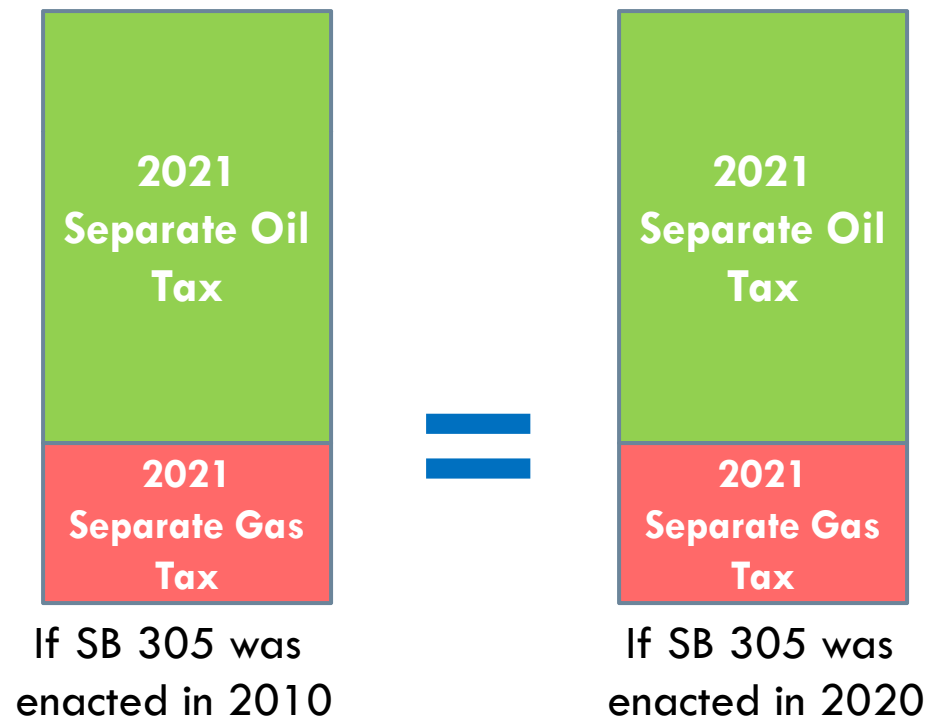
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- **Decoupling is not necessary at this time**
  - ▣ SB 305 could be passed at anytime in the next 10 years, and the result would be the same
- **SB 305 “locks-in” a lower gas production tax obligation**
  - ▣ Would reduce the state’s negotiating flexibility in the coming years
    - We could always lower the gas tax after “lock-in”, but we might not be able to raise it
- **SB305 is a significant overall tax increase**
  - ▣ It sends the Producers and the rest of the world the wrong message about Alaska’s interest in promoting a gasline project

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**If SB 305 were enacted in 2020, the resulting state revenue would be the same as if it were enacted in 2010**

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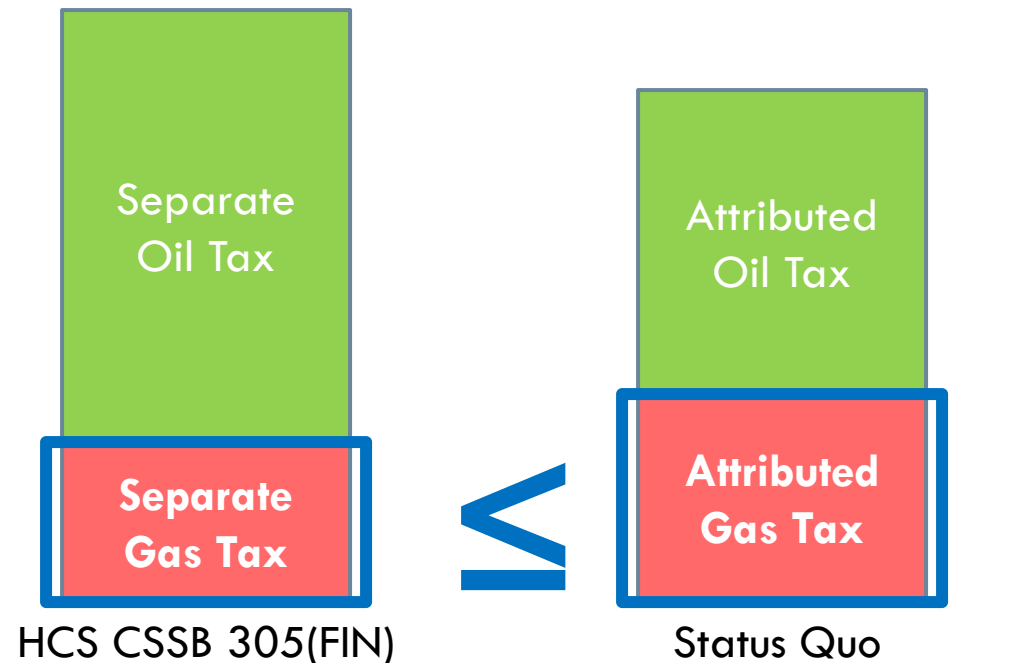
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# In All of the Modeling Cases Run:

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**The Gas Tax Obligation “Locked-in” by  
SB 305 is lower than Status Quo\***

\* It is equal only when the gas tax obligation in both instances is zero



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# Sample Cases

## Comparing SB 305, PPT, and Status Quo

### Assumptions

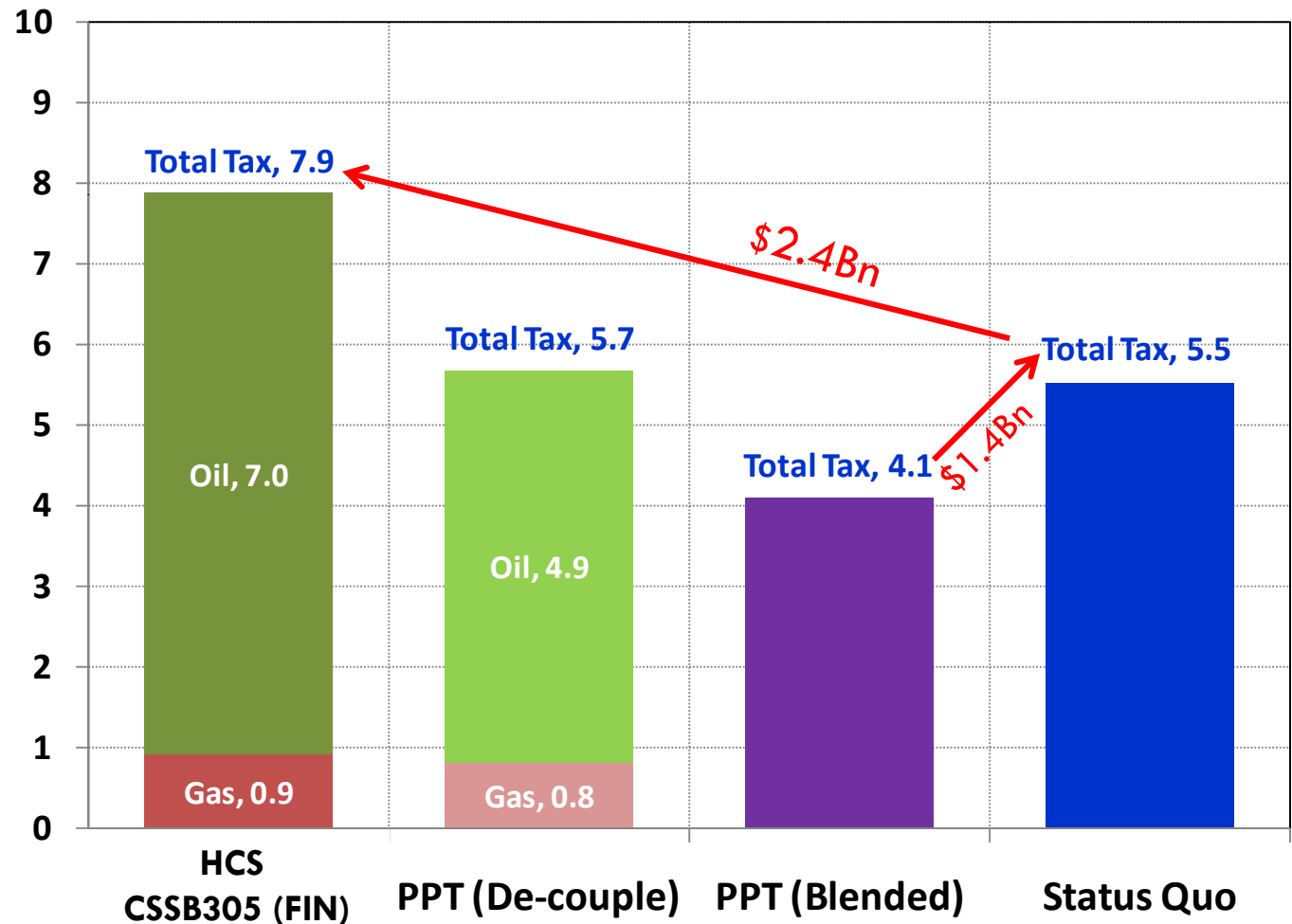
Oil: 500 Mbbl/d and Gas: 4.5 Bcf/d  
Capex: \$2.2Bn and Opex: \$2.2Bn  
Cost Allocation: PoP

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\$120/\$8  
(15:1)

At these prices, SB 305 is a larger tax increase than going from PPT to ACES

### State Production Tax Revenue



# Sample Cases

## Comparing SB 305, PPT, and Status Quo

### Assumptions

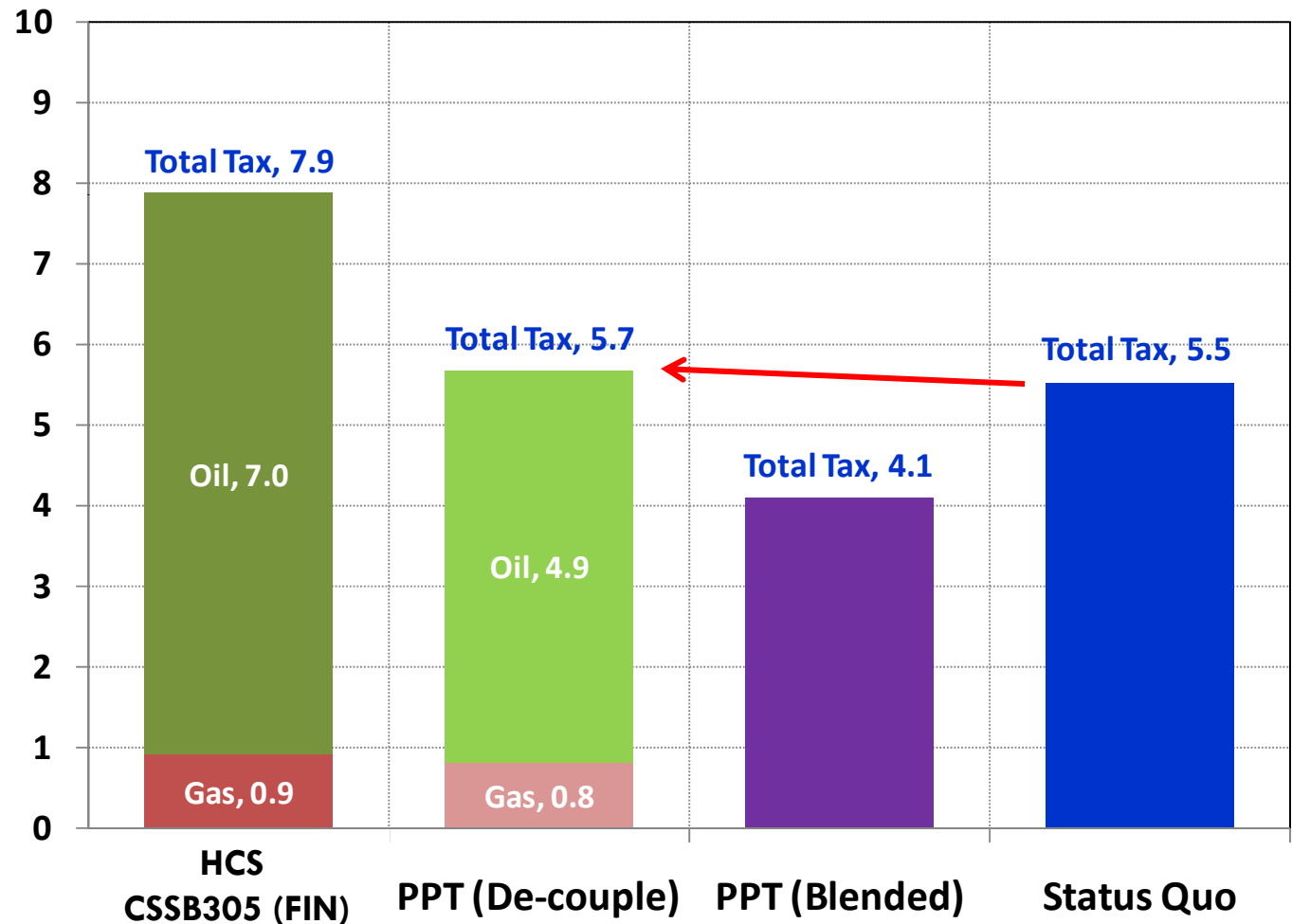
Oil: 500 Mbbl/d and Gas: 4.5 Bcf/d  
Capex: \$2.2Bn and Opex: \$2.2Bn  
Cost Allocation: PoP

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\$120/\$8  
(15:1)

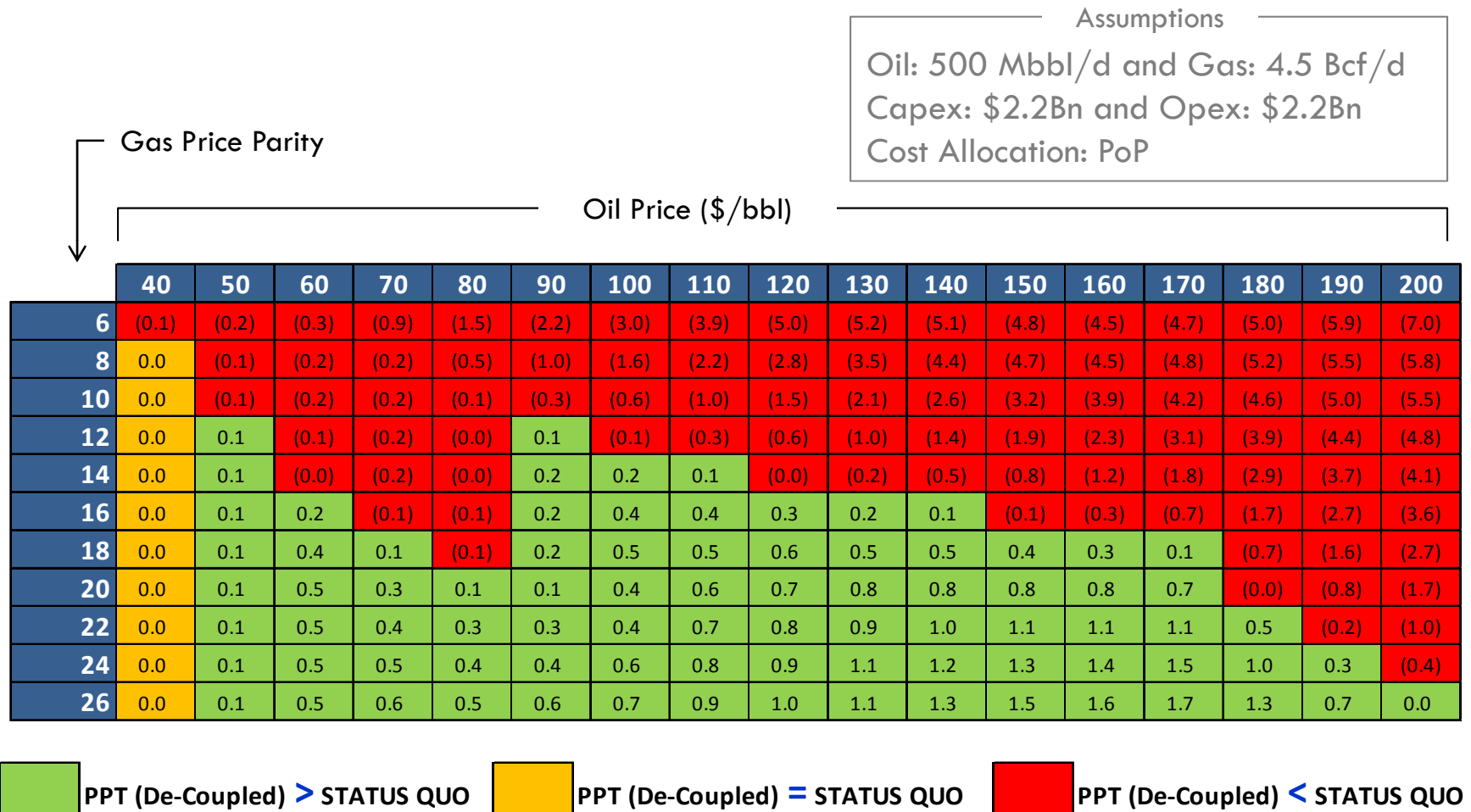
Yet, the Status Quo brings in nearly the same tax revenue as would have been generated if the PPT system had been decoupled

### State Production Tax Revenue



At nearly all cases less than 1 4:1 parity,  
Status Quo (combined) brings in more revenue than PPT  
decoupled (as much as \$7 billion more)

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# What is the “Problem” Being Solved by SB305?

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*Is It?: That the “dilution” of oil taxes caused by gas production will be “locked-in” at the AGIA Open Season*

□ Reality (Based on the Dept of Law analysis):

- Only the gas production tax obligation (not the rate) is “locked-in” at the open season;
- The legislature can change the oil tax system anytime before or after the open season;
- The so-called “\$2 billion loss” will only occur if three things happen:
  1. We are successful in achieving a large capacity gas pipeline;
  2. The price of oil and gas remain far apart (defying fundamental economic principles); AND
  3. **The next 5 Legislatures decide that it is appropriate to leave the current tax system as is.**



# What is the “Problem” Being Solved by SB305?

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2

*Is It?: That any “dilution” of oil taxes caused by mixing in a lower value hydrocarbon is an unacceptable “loss” of oil tax revenue?*

□ Response:

- Should the Legislature react similarly when a large volume heavy oil project is proposed?
  - It will have the same dynamic; highly profitable sweet crude will be diluted, thus reducing its profitability and its progressivity tax rate
  - State will “lose” oil tax revenue due to the introduction of heavy oil

# What is the “Problem” Being Solved by SB305?

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*Is It?: That under the status quo, at high oil/gas price parity, the state is at risk of seeing a reduction of overall production tax revenue when they “flip the gas switch”?*

□ Response:

- Legislature has 10 years to decide if it wants to take on that risk in exchange for a gasline;
- If it is not an acceptable risk, then there are a number of alternative options (including decoupling) that could be carefully considered.



## One Alternative Approach To Address the Revenue “Loss” when you “Flip the Gas Switch”

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- Establish in the current tax system a **minimum tax** equal to a separate oil tax (i.e. The combined tax cannot be lower than what the separate oil tax would be).
- ▣ Preserves the economic incentive nature of the current system, while protecting the state’s downside risk in the case of high price parity;
- ▣ Does not require significant structural changes to the current system, such as cost allocation.

# Closing Observations

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- ❑ Passing such a large tax increase just before our two upcoming open seasons sends a confusing message about the state's desire for a gasline
- ❑ SB 305 locks in a lower gas production tax obligation, thus reducing the state's negotiating flexibility
- ❑ SB305 could be passed after the open season without legal restriction or economic limitation

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# Technical Comments

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- ❑ Pg. 4, Line 30: Missing a “)”
- ❑ Pg. 8, Ln. 6: change “of a lease or property” to “of the lease or property”
- ❑ Pg. 9, Lns. 3, 15, and 28: change “if that land, lease, or property” to “if that land or lease or property”
- ❑ Pg. 14, Ln. 9: delete the word “taxable”
- ❑ Pg. 14, Lns. 10, 12, 14, 16, 18, 20, and 22: insert “during that calendar year” following the word “produced” on each line
- ❑ Pg. 14, Lns. 21 and 23: insert “other than gas used in the state” at the end of each subsection
- ❑ Pg. 14, Ln. 24: Following (g), insert “For purposes of this section,”
- ❑ Pg. 14, Ln. 25: delete “or to leases or properties for the purposes of determining production tax value”
- ❑ Pg. 15, Ln. 10: delete “from each lease or property”

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# Technical Concern

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## □ Pg. 14, Sec. 8:

- This new section allocates the costs incurred within a lease or property prior to commencement of sustained production so that those costs get allocated to existing production.
- These costs are allocated to production within one of the defined “segments” (NS oil, CI oil, CI gas, In-state gas, etc.)
- However, it does not make it clear that the costs are allocated only within the “segment” in which they were incurred.

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## **Back-up Materials**

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# Robust Economic Modeling of SB 305

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- The “\$2 billion loss” argument is based on a narrow window of possible oil to gas price relationships (i.e. 15:1);
- To be prudent, you need to analyze a wide range of potential oil prices and oil to gas price relationships.



## Modeling SB 305

Oil Price Range 40 to 200 \$/bbl

Gas Price Parity Range 6 to 26

Oil Production 500 Mbbbl/d

Gas Production 4.5 Bcf/d

Total OPEX \$ 2.2 Billions

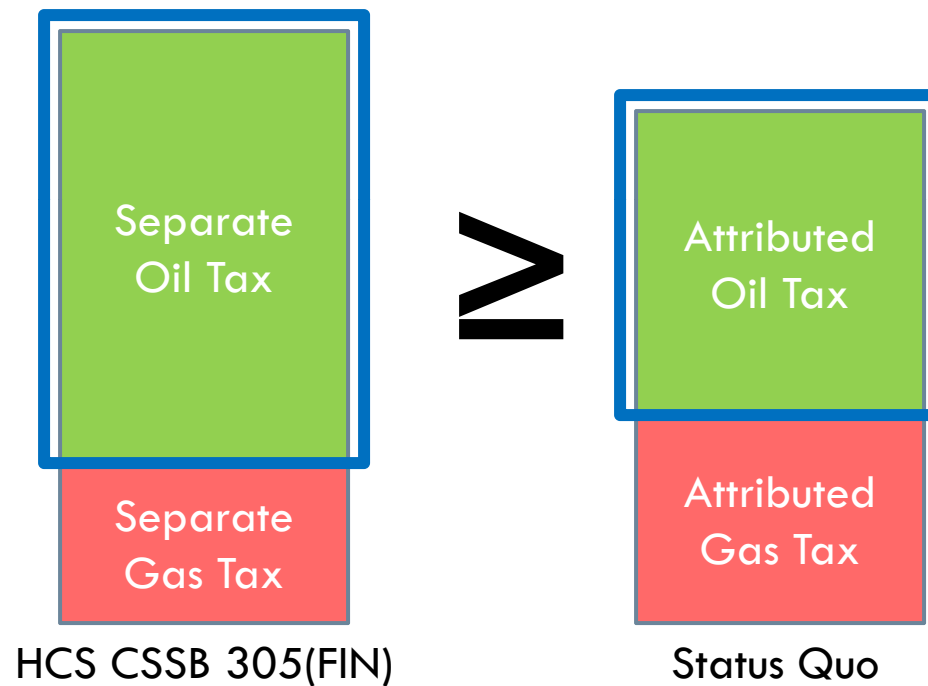
Total CAPEX \$ 2.2 Billions

Costs allocated on the basis of the proportion of the gross value at the point of production (PoP basis).

**In All of the Cases Run:**

**Oil Taxes after SB 305 are greater than or equal to the Status Quo**

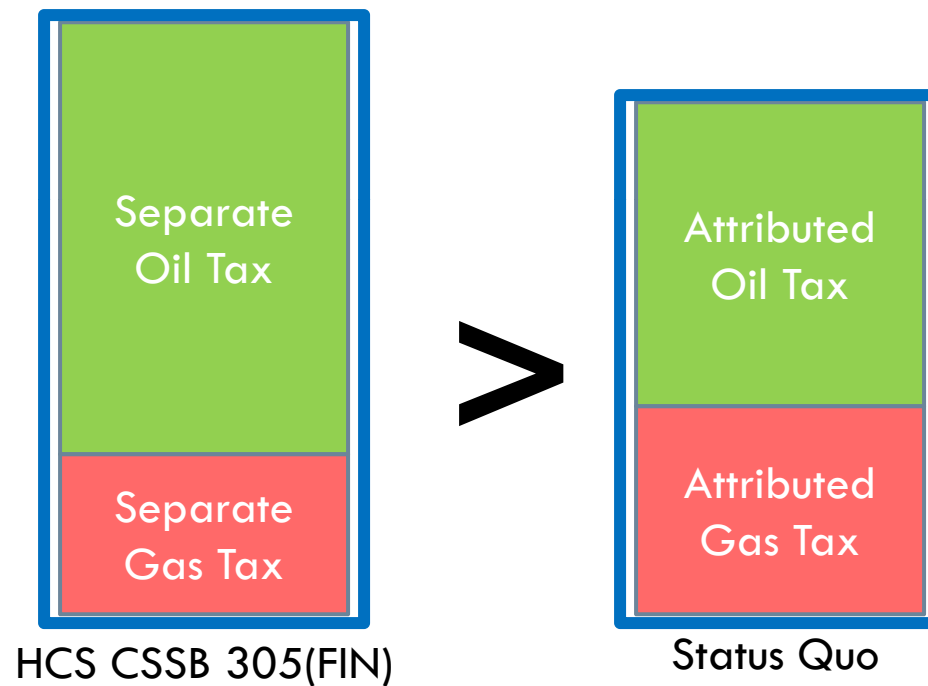
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**In over 90% of the Cases Run:  
Overall Oil and Gas Taxes after SB 305 are greater than the Status  
Quo**

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# Sample Cases

## Comparing SB305 and Status Quo

### Total Tax Revenue, and Gas Tax Obligations

#### Assumptions

Oil: 500 Mbbbl/d and Gas: 4.5 Bcf/d

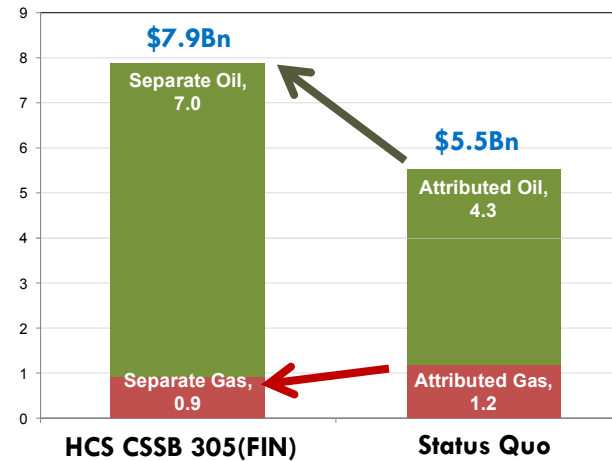
Capex: \$2.2Bn and Opex: \$2.2Bn

Cost Allocation: PoP

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State Production Tax Revenue

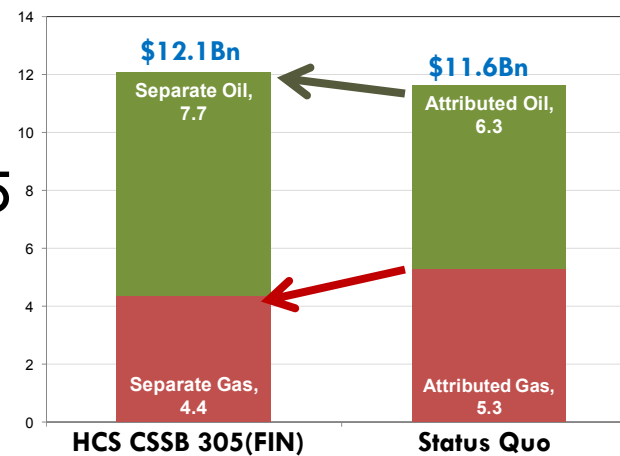
\$120/\$8  
(15:1)



Overall Tax and  
Oil Tax Increase

Gas Tax Decrease

\$120/\$15  
(8:1)



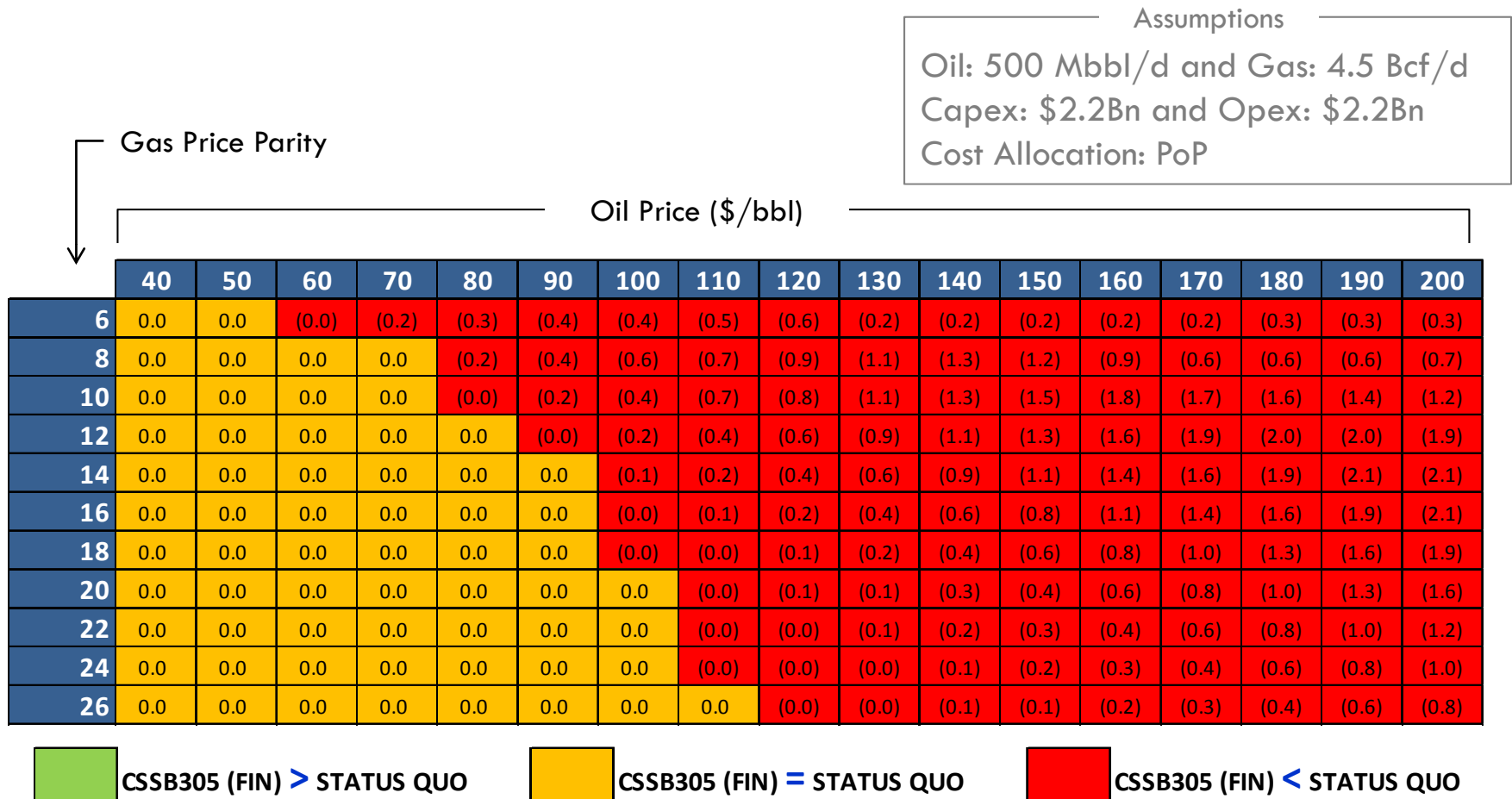
Overall Tax and  
Oil Tax Increase

Gas Tax Decrease

# Gas Tax

## HCS CSSB305 (FIN) less Status Quo\*

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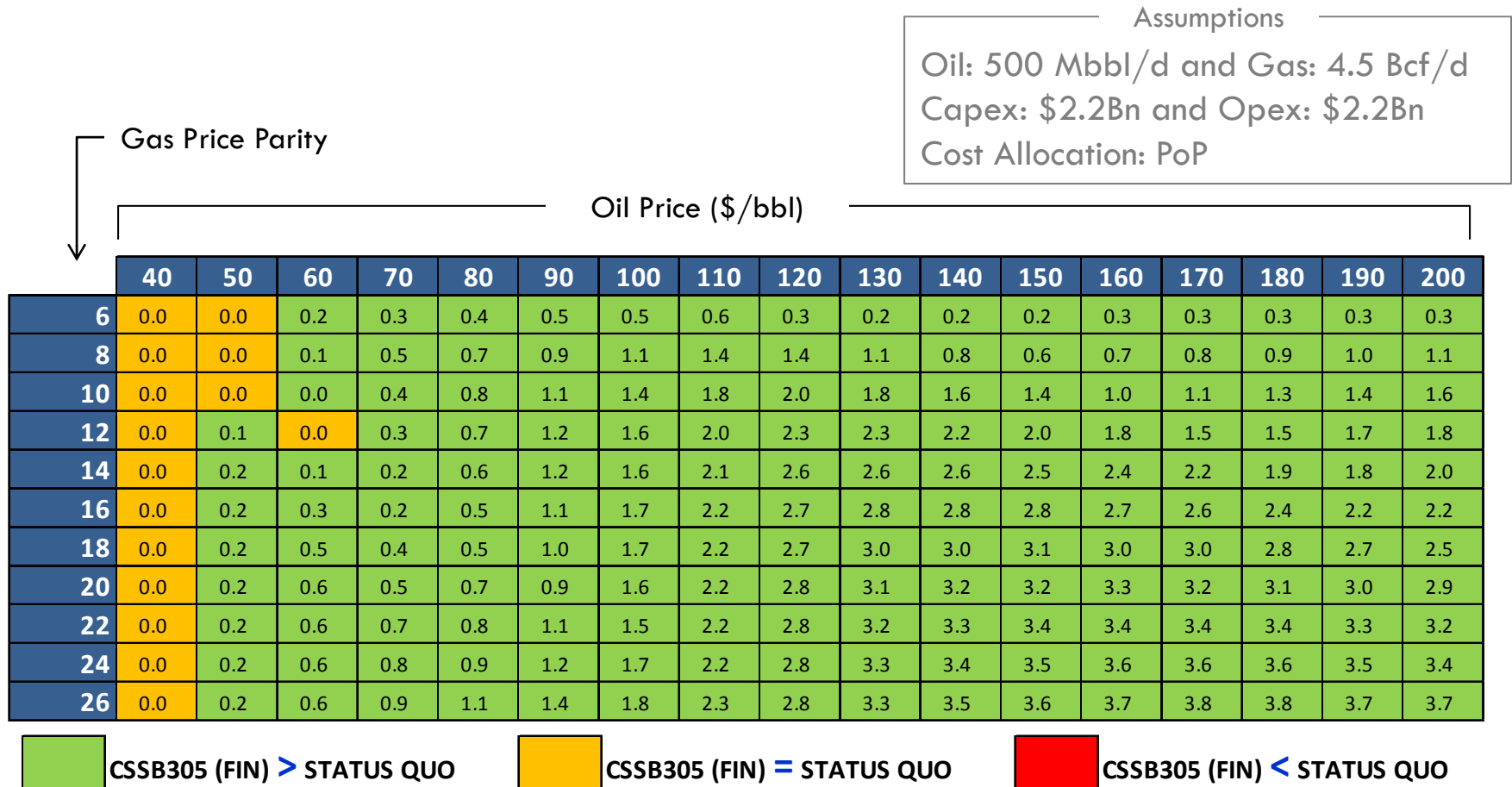


\*Gas Tax under the Status Quo equals Attributed Gas Tax

# Oil Tax

## HCS CSSB305 (FIN) less Status Quo\*

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\*Oil Tax under the Status Quo equals Total Tax less attributed gas tax

# Total Tax

## HCS CSSB305 (FIN) less Status Quo

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### Assumptions

Oil: 500 Mbbbl/d and Gas: 4.5 Bcf/d  
Capex: \$2.2Bn and Opex: \$2.2Bn  
Cost Allocation: PoP

Gas Price Parity

Oil Price (\$/bbl)

	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
6	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	(0.3)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.1	0.5	0.5	0.5	0.6	0.6	0.5	(0.0)	(0.6)	(0.6)	(0.2)	0.3	0.3	0.4	0.4
10	0.0	0.0	0.0	0.4	0.8	0.9	1.0	1.1	1.1	0.8	0.4	(0.1)	(0.7)	(0.6)	(0.3)	(0.0)	0.4
12	0.0	0.1	0.0	0.3	0.7	1.1	1.4	1.6	1.7	1.4	1.1	0.7	0.2	(0.3)	(0.5)	(0.3)	(0.1)
14	0.0	0.2	0.1	0.2	0.6	1.2	1.6	1.9	2.2	2.0	1.7	1.4	1.0	0.6	0.0	(0.3)	(0.1)
16	0.0	0.2	0.3	0.2	0.5	1.1	1.6	2.1	2.5	2.4	2.3	2.0	1.6	1.3	0.8	0.3	0.1
18	0.0	0.2	0.5	0.4	0.5	1.0	1.7	2.1	2.6	2.7	2.7	2.5	2.3	1.9	1.5	1.1	0.6
20	0.0	0.2	0.6	0.5	0.7	0.9	1.6	2.2	2.7	2.9	2.9	2.9	2.7	2.5	2.1	1.8	1.3
22	0.0	0.2	0.6	0.7	0.8	1.1	1.5	2.2	2.8	3.1	3.1	3.1	3.0	2.9	2.6	2.3	1.9
24	0.0	0.2	0.6	0.8	0.9	1.2	1.7	2.2	2.8	3.2	3.3	3.3	3.3	3.2	3.0	2.8	2.5
26	0.0	0.2	0.6	0.9	1.1	1.4	1.8	2.3	2.8	3.3	3.4	3.5	3.5	3.4	3.3	3.1	2.9



CSSB305 (FIN) > STATUS QUO



CSSB305 (FIN) = STATUS QUO



CSSB305 (FIN) < STATUS QUO