Response to Request from Rep. Tuck

COMPARISON OF REVENUE FROM PPT (DE-COUPLED) VERSUS STATUS QUO

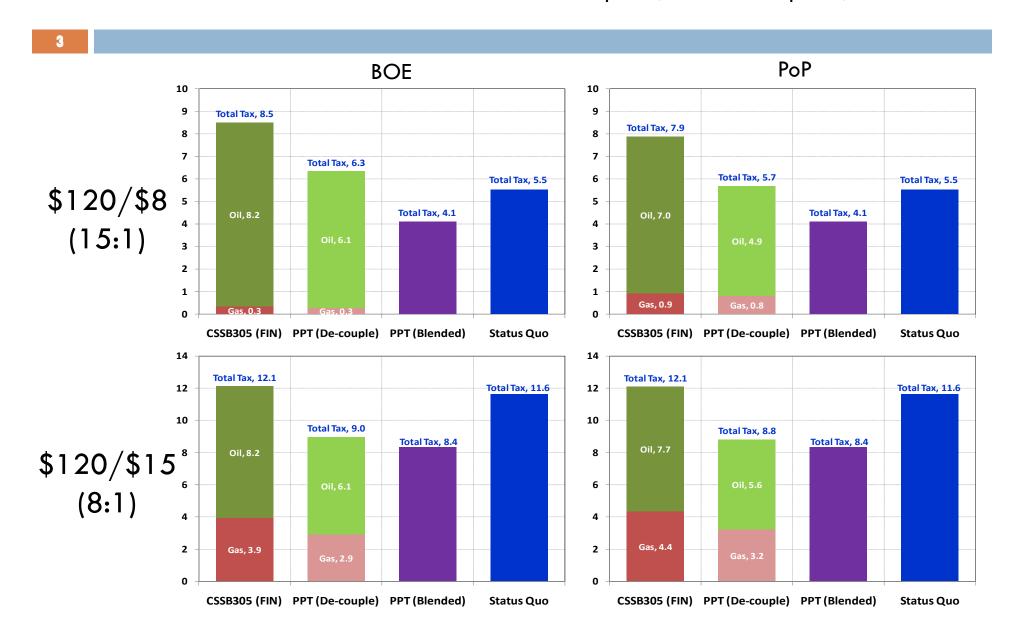
Description of the Analysis

- Compared the Overall State tax revenue generated by the status quo combined tax (ACES) versus the PPT tax system as if it had been de-coupled.
- Primary difference between the two:
 - PPT progressivity calculation kicks off at \$40 profit per barrel, and has a slope of .25% per dollar; compared to status quo of a \$30 kick off, and .4% slope;
 - PPT base tax rate was 22.5% compared to 25% status quo.

State Production Tax Revenue

Example Cases

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

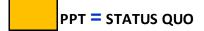


Total Tax Take Comparison

- Model Assumptions:
 - One year snapshot
 - 4.5 Bcf/d and either 500 Mbbl/d or 200 Mbbl/d
 - □ Total Opex = \$2.2 Bn and Total Capex = \$2.2 Bn
- Ran multiple cases varying oil price from 40 to 200
 \$/bbl and gas price parity from 6 to 26
- Ran the above cases for each of BOE, PoP and Fixed cost allocation methodology

Total Tax PPT ("de-coupled") less Status Quo Cost Allocation: BOE Basis

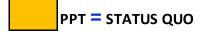
Oil: 500 Mbbl/d and Gas: 4.5 Bcf/d **Gas Price Parity** Capex: \$2.2Bn and Opex: \$2.2Bn Oil Price (\$/bbl) 120 50 60 70 80 90 100 110 130 140 150 160 170 180 190 200 (4.9) (4.8) (5.0) (0.2) (0.3) (8.0) (1.5) (2.2) (3.0)(3.9) (5.2) (5.1) (4.6)(4.7) (5.9) (7.0) (0.2) (1.4) (2.7) (3.4)(4.5) (4.5) (5.2) (5.9) 0.4 (0.3)(2.0)(4.2) (4.9)(8.0)(5.6)(1.1) (2.9)0.4 0.2 (0.3)(0.6)(1.7)(2.3) (3.7)(4.2) (4.6)(5.1)(5.5)0.4 0.1 0.0 0.4 0.7 0.4 0.2 0.3 0.4 0.3 0.2 (0.4)(8.0)(1.3)(1.9)(3.0)(3.8)(4.3)(4.8)14 0.4 0.7 0.2 (0.5)0.7 0.6 0.5 0.5 0.7 0.7 0.6 0.4 (1.5)(2.7)(4.0)16 0.4 0.7 0.8 0.8 0.9 1.0 1.0 1.0 1.0 0.9 0.8 0.5 (0.3)(1.3)(3.3)(2.4)18 (0.3)0.4 0.7 1.0 1.0 1.0 1.1 1.3 1.3 1.3 1.4 1.4 1.4 1.2 0.5 (1.2)(2.3)20 0.4 0.7 1.1 1.1 1.2 1.3 1.5 1.7 1.6 1.7 1.8 1.8 1.7 1.1 0.4 (0.4)(1.3) 0.4 (0.5)0.7 1.1 1.3 1.3 1.5 1.7 1.9 2.0 2.0 2.0 2.2 2.2 1.6 1.0 0.3 24 0.4 0.7 1.1 1.4 1.5 1.6 1.9 2.2 2.3 2.4 2.5 2.5 2.0 1.5 2.4 0.8 0.1 26 0.7 1.1 1.7 2.5 2.9 1.9 0.6





Total Tax PPT ("de-coupled") less Status Quo <u>Cost Allocation</u>: Point of Production (PoP) Basis

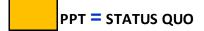
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Total Tax PPT ("de-coupled") less Status Quo Cost Allocation: BOE Basis

Oil: 200 Mbbl/d and Gas: 4.5 Bcf/d Gas Price Parity Capex: \$2.2Bn and Opex: \$2.2Bn Oil Price (\$/bbl) 50 90 120 130 200 70 60 80 100 110 140 150 160 170 180 190 (1.3) (3.2)(3.8) (0.1)(0.2)(0.3)(8.0)(1.8)(2.5)(4.0)(3.9)(3.6)(3.5)(3.4)(4.7)0.0 0.0 (0.1)(0.1)(1.0)(1.4)(1.8)(2.3)(2.9)(3.5)(3.7)(3.9)(4.0)(4.1)0.0 0.0 0.1 0.0 0.1 0.2 0.0 (0.2)(0.6)(0.9)(1.2) (1.6)(2.2) (2.9)(3.9)(3.6)12 0.0 (1.4)(2.6) 0.0 0.1 0.3 0.2 0.2 0.3 0.5 0.4 0.3 0.1 (0.1)(0.4)(0.9)14 0.0 0.0 0.1 0.3 0.5 0.4 0.6 0.7 0.8 0.7 0.7 0.5 (0.3)(8.0) (1.3) 0.4 0.2 16 0.0 0.0 0.1 0.3 0.6 0.7 0.6 0.8 1.0 1.1 1.1 1.1 0.6 0.2 18 0.0 0.0 0.1 0.3 0.6 0.9 0.9 0.8 0.9 1.0 1.3 1.4 1.5 1.3 1.1 0.8 0.5 20 0.0 0.0 0.1 0.3 0.6 0.9 1.1 1.1 1.2 1.3 1.6 1.8 1.7 1.5 1.0 1.1 1.3 0.0 0.6 1.5 0.0 0.1 0.3 0.9 1.2 1.2 1.3 1.4 1.7 1.9 1.8 1.4 24 0.0 2.1 0.0 0.1 0.3 0.6 0.9 1.2 1.4 1.5 1.6 1.7 1.9 2.1 2.0 1.7 26 0.0 0.0 0.1 0.3 0.6 0.9 1.2 1.5 1.6 1.7 1.9 2.0 2.2 2.3 2.1 2.1 2.0





Total Tax PPT ("de-coupled") less Status Quo <u>Cost Allocation</u>: Point of Production (PoP) Basis

Oil: 200 Mbbl/d and Gas: 4.5 Bcf/d **Gas Price Parity** Capex: \$2.2Bn and Opex: \$2.2Bn Oil Price (\$/bbl) 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 (3.2) (3.4) 0.0 (0.1)(0.2) (0.3) (0.9)(1.3) (1.9) (2.5) (4.0)(4.0) (3.8) (3.6)(3.5) (4.0) (4.7)(0.7)(1.5) (1.9)(3.0) (3.6) (3.7)(3.9)(4.1)0.0 0.0 (0.1)(0.1)(0.1)(1.1)(2.4)(4.0)10 (2.9)0.0 0.0 0.0 (0.1)(0.1)(0.2)(0.9)(1.2)(1.5)(1.9)(2.3)(3.8)0.0 0.0 0.0 0.0 (0.1)(0.1)0.1 0.0 (0.1)(0.4)(0.6)(0.9)(1.1)(2.7)14 0.0 (0.1)(0.1)0.0 0.0 0.0 (0.1)0.1 0.2 0.2 0.1 0.0 (1.5)16 0.0 0.0 0.0 0.0 0.0 (0.1)0.0 0.2 0.3 0.4 0.4 0.3 0.2 0.1 (0.6)18 0.0 0.0 0.0 0.0 0.0 0.0 (0.1)0.1 0.3 0.5 0.6 0.6 0.6 0.6 0.4 0.1 20 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.4 0.6 0.7 8.0 8.0 0.9 0.6 0.0 0.0 0.0 0.0 (0.1)0.0 0.0 0.0 0.0 0.2 0.4 0.6 0.8 0.9 1.0 1.1 1.0 24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 (0.1)0.1 0.3 0.5 0.8 1.2 1.2 1.0 1.1 26 0.0 0.0 0.0 0.5 1.2 1.4





Observations

- In many of the instances, the status quo combined tax would result in more overall tax revenue than PPT decoupled.
- Provides insight into the perception of the "appropriate" state share of oil and gas revenues once a major gas sale occurs.
- Results are an interesting reflection on whether the state is "losing" revenue under a combined tax system.