### Progressivity in CS HB 2001 (O&G) with requested alternative information

Dan E. Dickinson November 2, 2007 House Resources

### **Progressivity Taxes**

DACE	PPT	ACES	HO&G
<u>BASE</u> Taxable bbls	244	244	244
ANS Market Trans	87.00 7.00	87.00 7.00	87.00 7.00
GVPP Lifting	80.00	80.00	80.00
PTV bbls time \$/bbl	<u>60.00</u> 14,640	60.00 GVPP: 14,640	80.00 19,520
Base	14,640	14,640	19,520

#### RATE (factor/dollar \* dollars over starting point)

Starting place	40.00	30.00	50.00
Price index	20.00	30.00	30.00
Factor/dollar	0.2500%	0.2000%	0.2250%
Prog Factor	5.00%	6.00%	6.75%

<u>Tax = Rate *</u>	<u>Base</u>		
Тах	732.00	878.40	1,317.60
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## **Progressivity Taxes** (using 10/30 Daily Price and DOR cost and volume assumptions)

	PPT	ACES		HO&G
<u>BASE</u>				
Taxable bbls	230.5	230.5		230.5
ANS Market	89.09	89.09		89.09
Trans	6.73	6.73		6.73
GVPP	82.36	82.36	_	82.36
Lifting/Upstream	18.57	18.57		-
PTV	63.79	63.79	GVPP:	82.36
bbls time \$/bbl	14,704	14,704	-	18,984
Base	14,704	14,704	-	18,984
RATE (factor/dollar * dollars over starting point)				
Starting place	40.00	30.00		50.00
Price index	23.79	33.79		32.36
Factor/dollar	0.2500%	0.2000%	-	0.2250%
Prog Factor	5.95%	6.76%	_	7.28%
Progressivity Tax = Progressivity Rate * Progressivity Base				
Тах	874.50	993.67		1,382.22
Original Tax	732.00	878.40	=	1,317.60
Delta (increase)	142.50	115.27		64.62

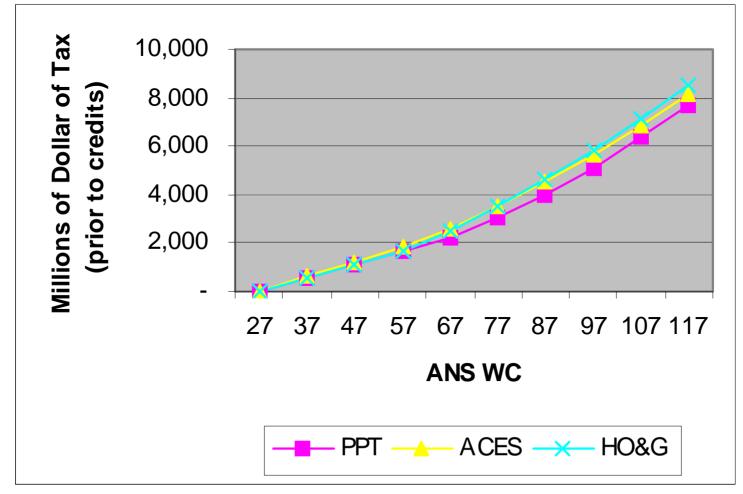
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## Are costs closer to \$15 or \$20 a barrel?

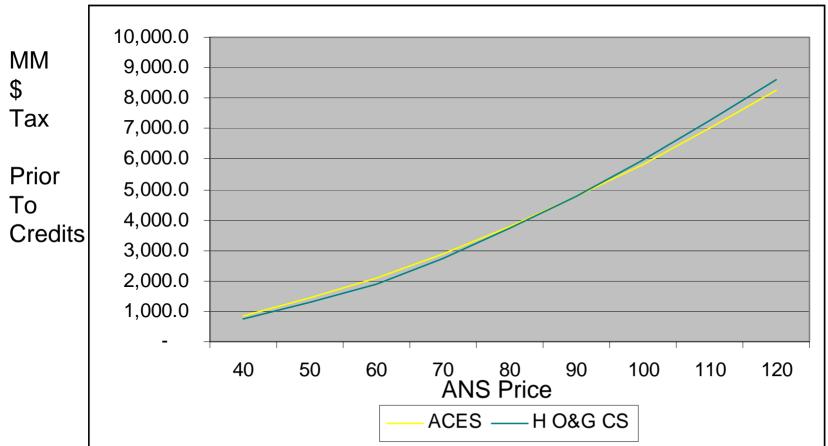
	Alternative Ca	alculations	Econ One
	No Royalty	Removing	"All
	Effect	Royalty	Details"
Opex - (in millions) (from DOR)	2,146	2,146	4,264
Capex - (in millions) (from DOR)	2,137	2,137	
Total - \$ numerator	4,283	4,283	
Daily Volumes (millions) (from DOR)	0.722	0.722	
Days in year	365	365	
Annual Volumes (millions)	263.5	263.5	
Royalty Effect (estimate)	1	0.875	
Bbl Denominator	263.5	230.6	230.5
\$/bbl "Actual" costs 30 cents per barrel highe	16.25 er	18.57	18.50

11/2/2007

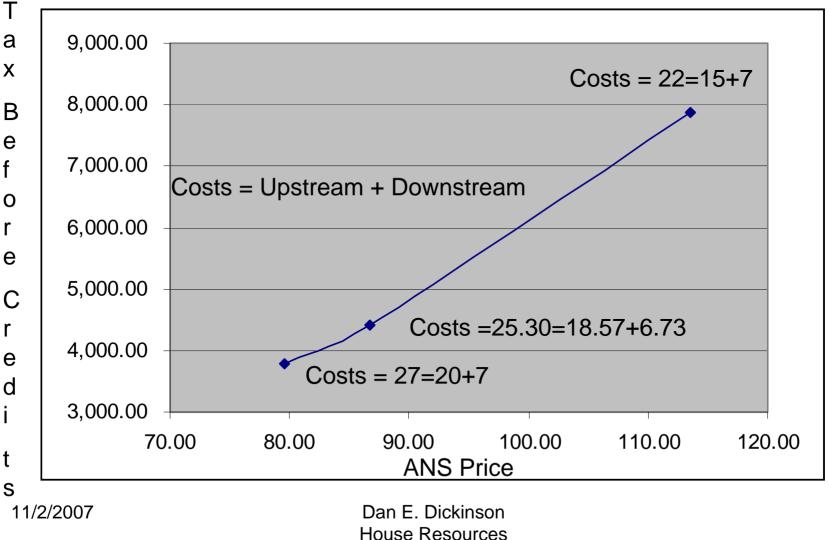
# Progressivity Studies 10/28/07 (\$7 downstream costs, \$20 upstream)



### Cross Over Point, ACES and H O&G CS (using 10/30 Daily Price and DOR cost and volume assumptions)



#### Cross Over Points (ANS price, millions of dollars of tax before credits) where HO&G CS revenues exceed ACES using different costs



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### Algebraic Description of Progressivity

- R = Progressivity rate (per dollar per barrel above starting point)
- G = Gross Value at Point of Production of Taxable Oil
- N = Upstream Costs
- TB = Taxable Barrels
- Gross Progressivity
- Progressivity Tax = R \* (G/TB 50) \* G
- Net Progressivity (ACES would use 30 instead of current 40)
- Progressivity Tax = R \* ((G-N)/TB 40) \* (G-N)