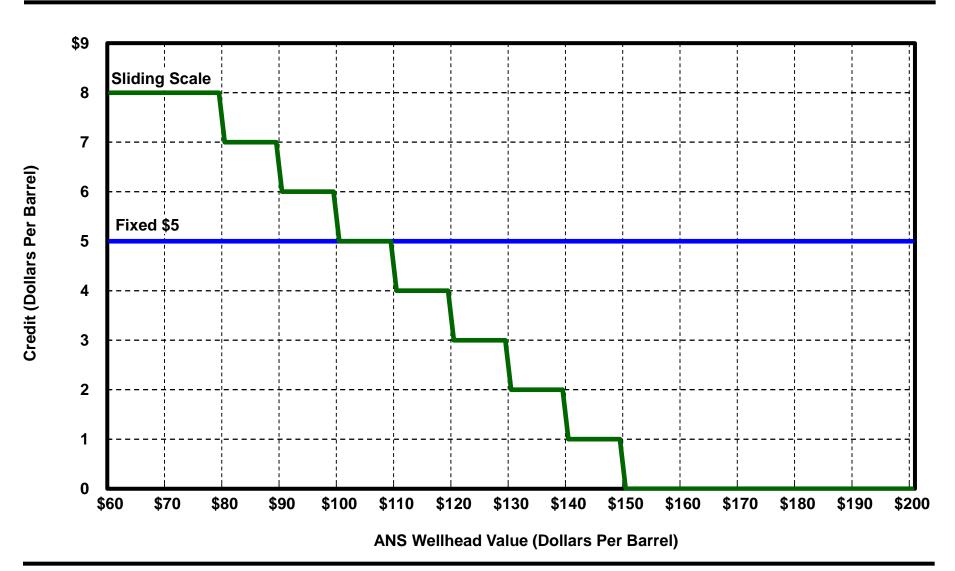


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ACES, CS SB21 (FIN) and HCS SB21 (RES) Working Draft

Barry Pulliam Managing Director Econ One Research, Inc.

April 2, 2013





Tax Calculation Using Sliding Scale Production Credit (Volumes Not Subject to Gross Value Reduction)



West Coast Price (\$/Bbl)		\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00	\$130.00	\$140.00	\$150.00	\$160.00
Transportation (\$/Bbl)	-	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Gross Value (\$/Bbl)	=	\$50.00	\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00	\$130.00	\$140.00	\$150.00
Lease Expenditures (\$/Bbl)	-	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Per-Barrel Taxable Value (\$/Bbl)	=	\$20.00	\$30.00	\$40.00	\$50.00	\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00
Taxable Barrels (Bbls)	х	100	100	100	100	100	100	100	100	100	100	100
Total Production Tax Value (\$)	=	\$2,000	\$3,000	\$4,000	\$5,000	\$6,000	\$7,000	\$8,000	\$9,000	\$10,000	\$11,000	\$12,000
Tax Rate (Percent)	х	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%
Production Tax Before Credit (\$)	=	\$700	\$1,050	\$1,400	\$1,750	\$2,100	\$2,450	\$2,800	\$3,150	\$3,500	\$3,850	\$4,200
Per Barrel Production Credit (\$/Bbl)		\$8.00	\$8.00	\$8.00	\$7.00	\$6.00	\$5.00	\$4.00	\$3.00	\$2.00	\$1.00	\$0.00
Total Production Credit (\$)	-	\$800	\$800	\$800	\$700	\$600	\$500	\$400	\$300	\$200	\$100	\$0
Production Tax After Credit (\$)	=	\$0	\$250	\$600	\$1,050	\$1,500	\$1,950	\$2,400	\$2,850	\$3,300	\$3,750	\$4,200
Effective Tax Rate After Credit (%)		0.0%	8.3%	15.0%	21.0%	25.0%	27.9%	30.0%	31.7%	33.0%	34.1%	35.0%
Effective Tax Rate on Gross Value (%	6)	0.0%	4.2%	8.6%	13.1%	16.7%	19.5%	21.8%	23.8%	25.4%	26.8%	28.0%

Tax Calculation Using Fixed \$5 Production Credit (Volumes Subject to Gross Value Reduction)



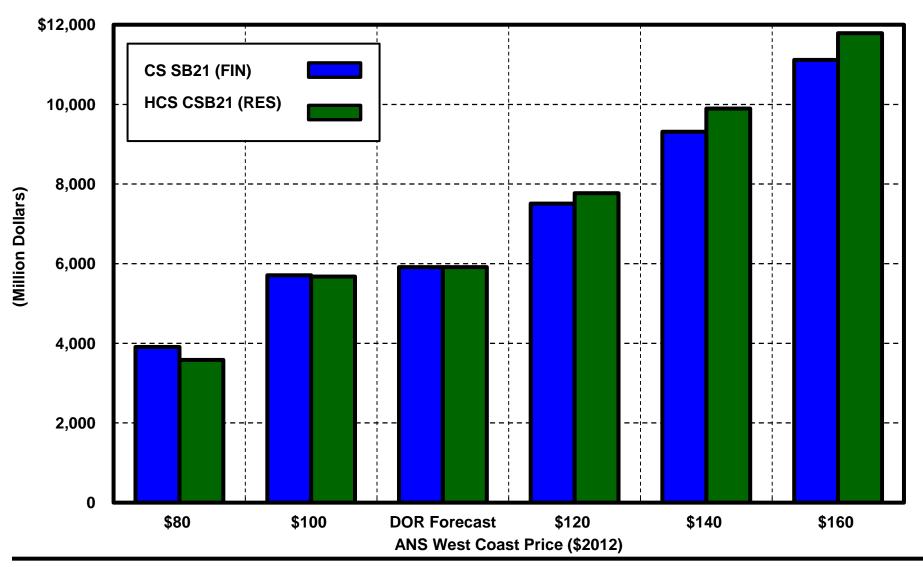
West Coast Price (\$/Bbl)		\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00	\$130.00	\$140.00	\$150.00	\$160.00
Transportation (\$/Bbl)	-	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Gross Value (\$/Bbl)	=	\$50.00	\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00	\$130.00	\$140.00	\$150.00
Lease Expenditures (\$/Bbl)	-	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Per-Barrel Taxable Value (\$/Bbl)	=	\$20.00	\$30.00	\$40.00	\$50.00	\$60.00	\$70.00	\$80.00	\$90.00	\$100.00	\$110.00	\$120.00
Taxable Barrels (Bbls)	x	100	100	100	100	100	100	100	100	100	100	100
Total Production Tax Value (\$)	=	\$2,000	\$3,000	\$4,000	\$5,000	\$6,000	\$7,000	\$8,000	\$9,000	\$10,000	\$11,000	\$12,000
Gross Value Reduction (%)		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Gross Value Net of GVR (\$/Bbl)		\$40.00	\$48.00	\$56.00	\$64.00	\$72.00	\$80.00	\$88.00	\$96.00	\$104.00	\$112.00	\$120.00
Lease Expenditures (\$/Bbl)	-	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Per-Barrel Taxable Value Net of GVR (\$/Bbl)	=	\$10.00	\$18.00	\$26.00	\$34.00	\$42.00	\$50.00	\$58.00	\$66.00	\$74.00	\$82.00	\$90.00
Taxable Barrels (Bbls)	х	100	100	100	100	100	100	100	100	100	100	100
Total Production Tax Value (\$)	=	\$1,000	\$1,800	\$2,600	\$3,400	\$4,200	\$5,000	\$5,800	\$6,600	\$7,400	\$8,200	\$9,000
Tax Rate (Percent)	х	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%
Production Tax Before Credit (\$)	=	\$350	\$630	\$910	\$1,190	\$1,470	\$1,750	\$2,030	\$2,310	\$2,590	\$2,870	\$3,150
Per Barrel Production Credit (\$/Bbl)		\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00
Total Production Credit (\$)	-	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Production Tax After Credit (\$)	=	\$0	\$130	\$410	\$690	\$970	\$1,250	\$1,530	\$1,810	\$2,090	\$2,370	\$2,650
Effective Tax Rate After Credit (%)		0.0%	4.3%	10.3%	13.8%	16.2%	17.9%	19.1%	20.1%	20.9%	21.5%	22.1%
Effective Tax Rate on Gross Value (%)		0.0%	2.2%	5.9%	8.6%	10.8%	12.5%	13.9%	15.1%	16.1%	16.9%	<mark>17.7%</mark>

Average Government Take for All Existing Producers (FY2015-FY2019)



\$2012	Government Take							
ANS WC	35%/							
Price	Sliding Scale	35% / \$5	ACES					
(\$2012 /Bbl)		(Percent)						
(1)	(2)	(3)	(4)					
\$60	57.8%	63.0%	61.6%					
\$70	59.8%	63.7%	62.2%					
\$80	61.6%	64.1%	64.1%					
\$90	63.1%	64.3%	66.2%					
\$100	64.4%	64.5%	68.5%					
\$110	65.3%	64.7%	70.7%					
\$120	65.8%	64.8%	72.8%					
\$130	66.4%	64.9%	73.8%					
\$140	66.8%	65.0%	74.5%					
\$150	67.0%	65.0%	75.1%					
\$160	66.9%	65.1%	75.7%					
\$170	66.8%	65.1%	76.3%					
\$180	66.7%	65.2%	77.0%					
\$190	66.7%	65.2%	77.6%					
\$200	66.6%	65.2%	78.2%					

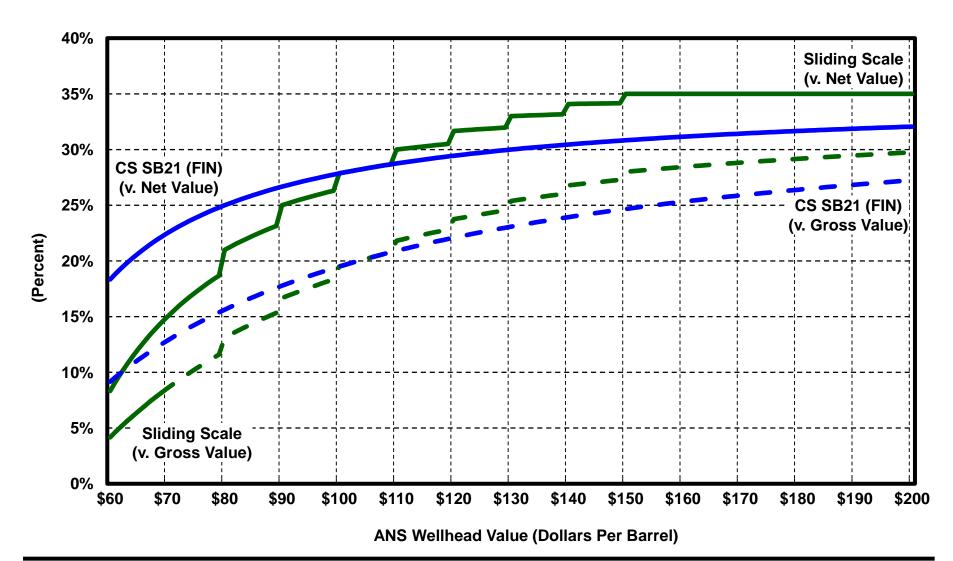
State Revenues CS SB21 (FIN) v. HCS CSB21 (RES) w/ Proposed Sliding Scale for All Existing Producers (Annual Average FY2015 - FY2019)



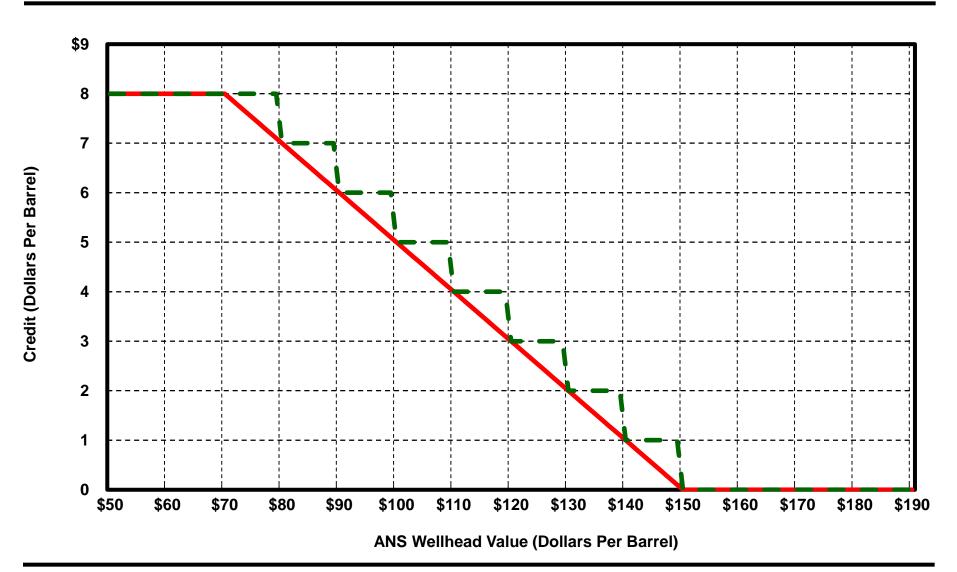


Effective Tax Rate Comparison CS SB21 (FIN) v. v. CS SB21 (FIN) with Sliding Credit Scale (Volumes Not Subject to Gross Value Reduction)



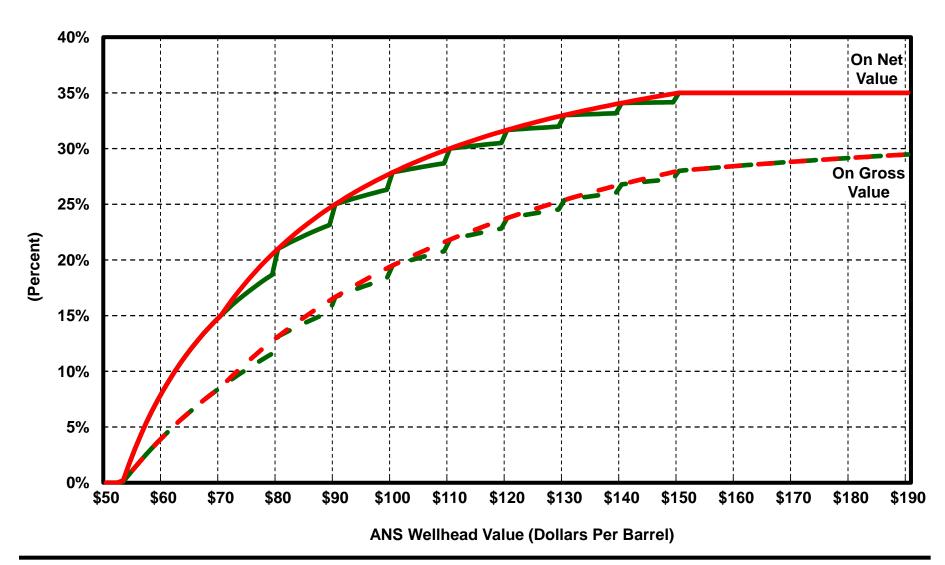


Sliding Scale Credit Stair-Stepped v. Smoothed





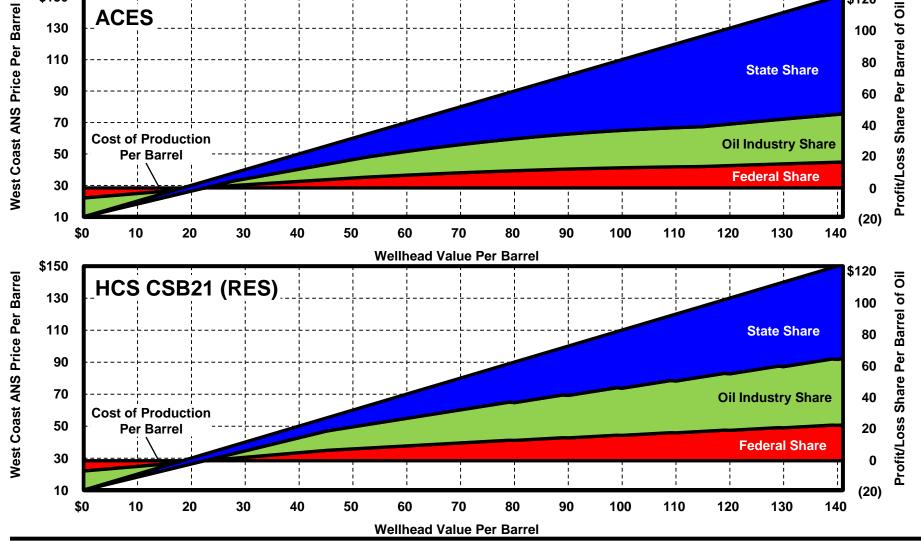
Tax Calculation Using Sliding Scale Production Credit (Volumes Not Subject to Gross Value Reduction) Effective Tax Rates



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Shares of Per-Barrel Values Under ACES and HCS CSB21 (RES) Using FY2012 Combined PBU/KPU Costs and Volumes



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\$120