
ACES, SB21/HB72 and HCS CS SB21 (RES) for House Finance Committee

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Key Features of ACES, SB21/HB72 and HCS CS SB21 (RES)

	ACES	SB71/HB72	HCS CS SB21 (RES)
Base Tax Rate	25%	25%	33%
Progressive Tax	0.4% Per \$1 Above \$30 Net; 0.1% Per \$1 Above \$92.50 Net	None	None
Maximum Tax Rate	75%	25%	33%
Credits	20% of Qualified Capital Expenditure	None	Up to \$8/Bbl Produced
Gross Revenue Exclusion (GRE)			
Rate	N/A	20%	20%
Applicability		New Units/PAs	New Units/PAs PA Expansions
Monetization of Net Operating Losses (NOLs)	Yes	No Carried Forward With 15% Increase	Yes
Minimum Tax	4% of Gross @ WC ANS > \$25	4% of Gross @ WC ANS > \$25	4% of Gross @ WC ANS > \$25
Credits Reduce Minimum Tax	Yes	N/A	GRE Barrels Only
Small Producer Credit	\$12 Million (2016)	\$12 Million (2022)	\$12 Million (2022)

Tax Calculation Under ACES

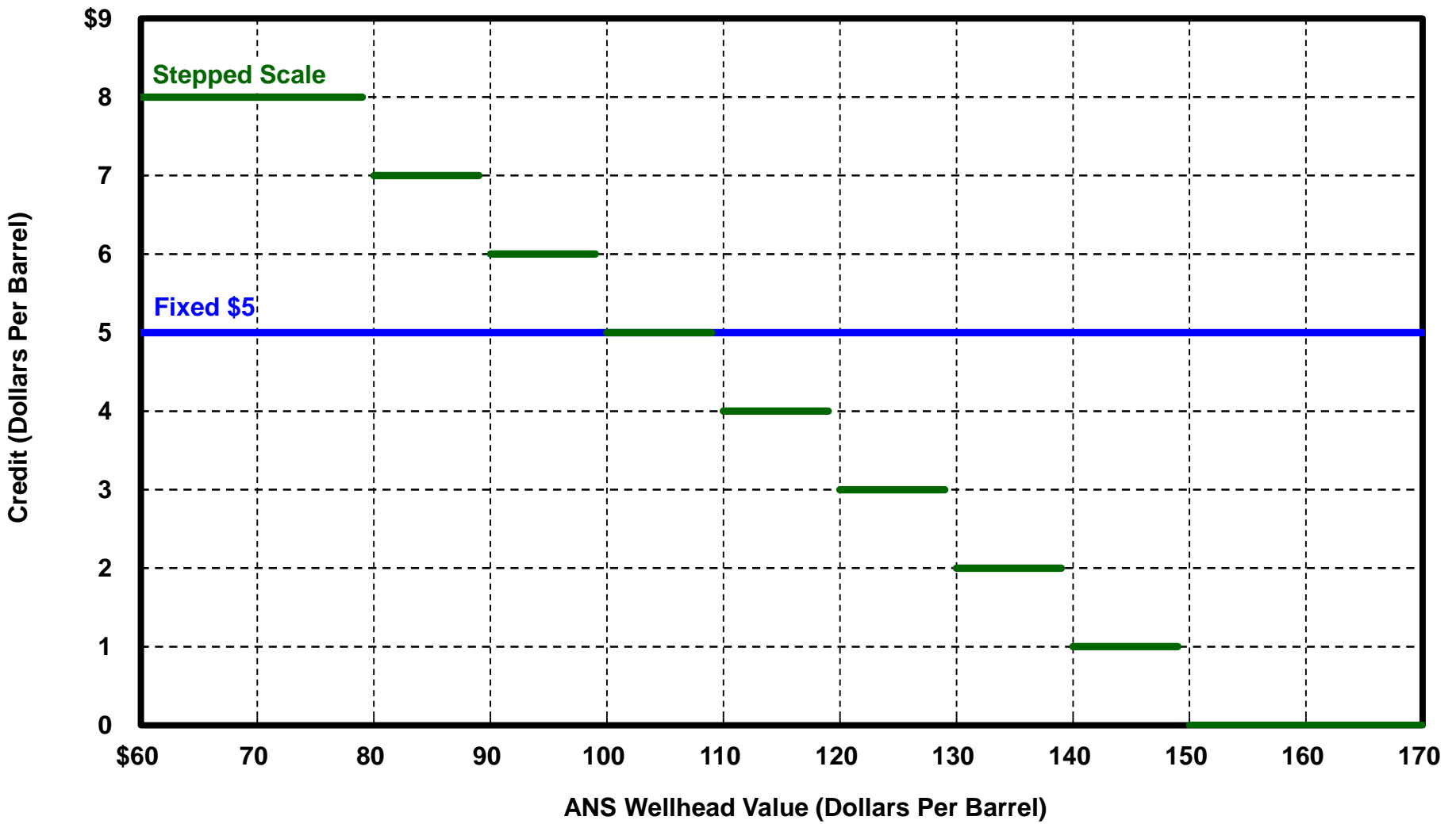
(a) West Coast Price (\$/Bbl)			\$80.00	\$100.00	\$120.00	\$140.00	\$160.00
(b) Transportation (\$/Bbl)	-		10.00	10.00	10.00	10.00	10.00
(c) Gross Value (\$/Bbl)	(a) - (b)	=	\$70.00	\$90.00	\$110.00	\$130.00	\$150.00
(d) Operating Costs (\$/Bbl)	-		15.00	15.00	15.00	15.00	15.00
(e) Capital Expenditures (\$/Bbl)	-		15.00	15.00	15.00	15.00	15.00
(f) Net Value (\$/Bbl)	(c) - (d) - (e)	=	\$40.00	\$60.00	\$80.00	\$100.00	\$120.00
(g) ACES Base Tax Rate (Percent)			25%	25%	25%	25%	25%
(h) ACES Progressive Tax Rate (Percent)	+		4%	12%	20%	26%	28%
(i) Total Tax Rate (Percent)	(g) + (h)	=	29%	37%	45%	51%	53%
(j) Production Tax Before Credit (\$/Bbl)	(f) x (i)		\$11.60	\$22.20	\$36.00	\$50.75	\$63.30
(k) Qualified Capital Expenditure Credit (\$/Bbl)	(e) x 20%	-	3.00	3.00	3.00	3.00	3.00
(l) Production Tax After Credit (\$/Bbl)	(j) - (k)		\$8.60	\$19.20	\$33.00	\$47.75	\$60.30
(m) Taxable Barrels (Bbbls)	x		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
(n) Total Production Tax After Credit (\$000)	(l) x (m)	=	\$8,600	\$19,200	\$33,000	\$47,750	\$60,300
(o) Effective Tax Rate on Net Value (%)	(l) ÷ (f)		21.5%	32.0%	41.3%	47.8%	50.3%
(p) Effective Tax Rate on Gross Value (%)	(l) ÷ (c)		12.3%	21.3%	30.0%	36.7%	40.2%

Tax Calculation Under ACES: Varying Costs

(a) West Coast Price (\$/Bbl)		\$100.00	\$100.00	\$100.00
(b) Transportation (\$/Bbl)	-	10.00	10.00	10.00
(c) Gross Value (\$/Bbl)	(a) - (b) =	\$90.00	\$90.00	\$90.00
(d) Operating Costs (\$/Bbl)	-	10.00	15.00	20.00
(e) Capital Expenditures (\$/Bbl)	-	10.00	15.00	20.00
(f) Net Value (\$/Bbl)	(c) - (d) - (e) =	\$70.00	\$60.00	\$50.00
(g) ACES Base Tax Rate (Percent)		25%	25%	25%
(h) ACES Progressive Tax Rate (Percent)	+	16%	12%	8%
(i) Total Tax Rate (Percent)	(g) + (h) =	41%	37%	33%
(j) Production Tax Before Credit (\$/Bbl)	(f) x (i)	\$28.70	\$22.20	\$16.50
(k) Qualified Capital Expenditure Credit (\$/Bbl)	(e) x 20%	2.00	3.00	4.00
(l) Production Tax After Credit (\$/Bbl)	(j) - (k)	\$26.70	\$19.20	\$12.50
(m) Taxable Barrels (Bbls)	x	1,000,000	1,000,000	1,000,000
(n) Total Production Tax After Credit (\$000)	(l) x (m) =	\$26,700	\$19,200	\$12,500
(o) Effective Tax Rate on Net Value (%)	(l) ÷ (f)	38.1%	32.0%	25.0%
(p) Effective Tax Rate on Gross Value (%)	(l) ÷ (c)	29.7%	21.3%	13.9%

HCS CS SB21 (RES) Per-Barrel Credits

Non-GRE Volumes (Stepped Scale) v. GRE Volumes (Fixed)

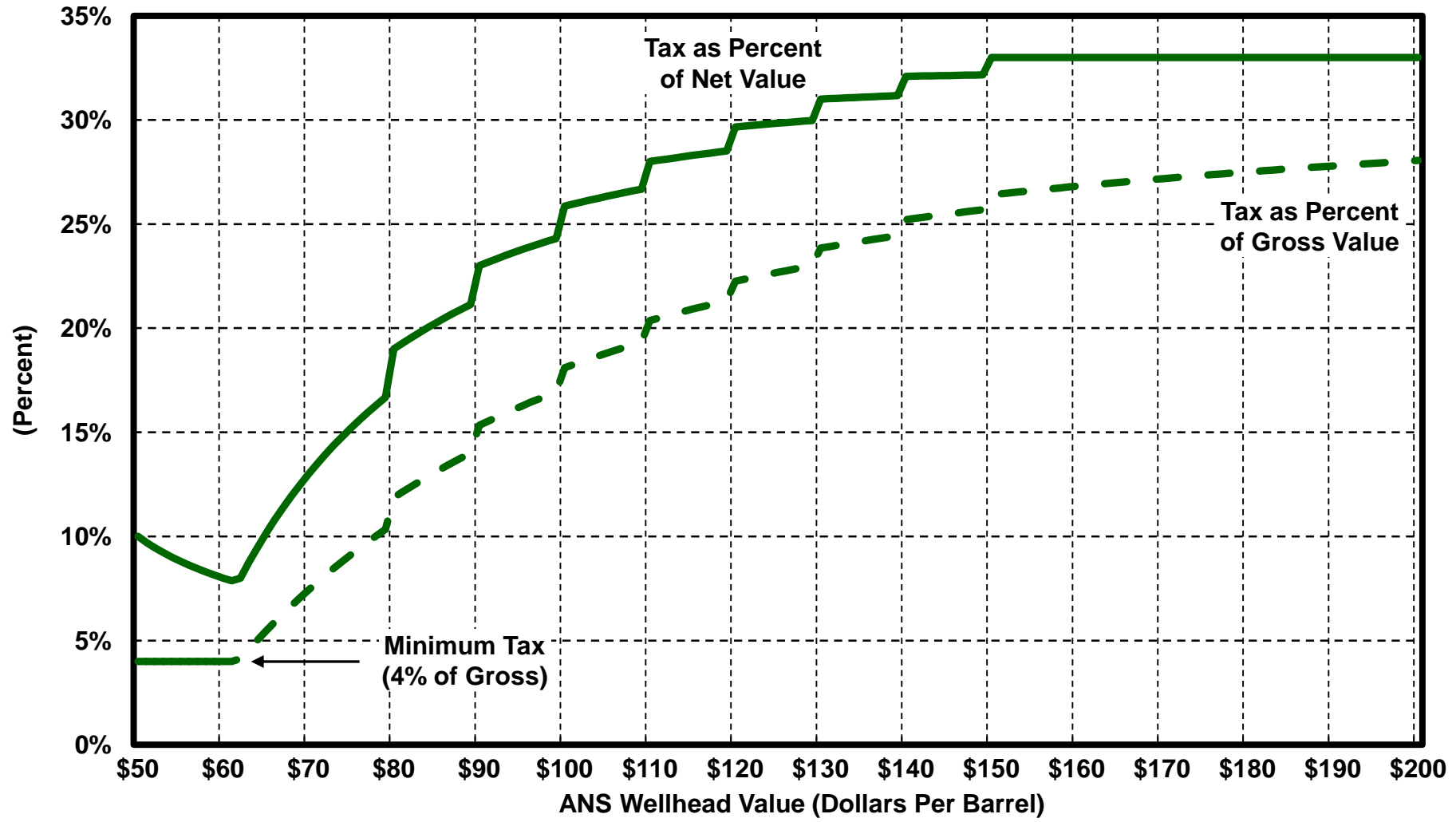


Tax Calculation Using Stepped Scale Production Credit (Volumes Not Subject to Gross Revenue Exclusion)

(a) West Coast Price (\$/Bbl)			\$80.00	\$100.00	\$120.00	\$140.00	\$160.00
(b) Transportation (\$/Bbl)	-		10.00	10.00	10.00	10.00	10.00
(c) Gross Value (\$/Bbl)	(a) - (b)	=	\$70.00	\$90.00	\$110.00	\$130.00	\$150.00
(d) Lease Expenditures (\$/Bbl)	-		30.00	30.00	30.00	30.00	30.00
(e) Net Value (\$/Bbl)	(c) - (d)	=	\$40.00	\$60.00	\$80.00	\$100.00	\$120.00
(f) Tax Rate (Percent)	x		33%	33%	33%	33%	33%
(g) Production Tax Before Credit (\$/Bbl)	(e) x (f)		\$13.20	\$19.80	\$26.40	\$33.00	\$39.60
(h) Production Credit (\$/Bbl)	-		8.00	6.00	4.00	2.00	0.00
(i) Production Tax After Credit (\$/Bbl)	(g) - (h)		\$5.20	\$13.80	\$22.40	\$31.00	\$39.60
(j) Taxable Barrels (Bbls)	x		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
(k) Total Production Tax After Credit (\$000)	(i) x (j)	=	\$5,200	\$13,800	\$22,400	\$31,000	\$39,600
(l) Effective Tax Rate on Net Value (%)	(i) ÷ (e)		13.0%	23.0%	28.0%	31.0%	33.0%
(m) Effective Tax Rate on Gross Value (%)	(i) ÷ (c)		7.4%	15.3%	20.4%	23.8%	26.4%

Note: Per barrel credit is equal to \$8/Bbl at wellhead prices below \$80/bbl, diminishing to \$0/Bbl at a wellhead price of \$150/bbl. The minimum tax is 4% of the wellhead value of the oil whenever West Coast ANS is above \$25/Bbl.

Effective Tax Rates Under HCS CS SB21 (RES) (Volumes Not Subject to Gross Revenue Exclusion)

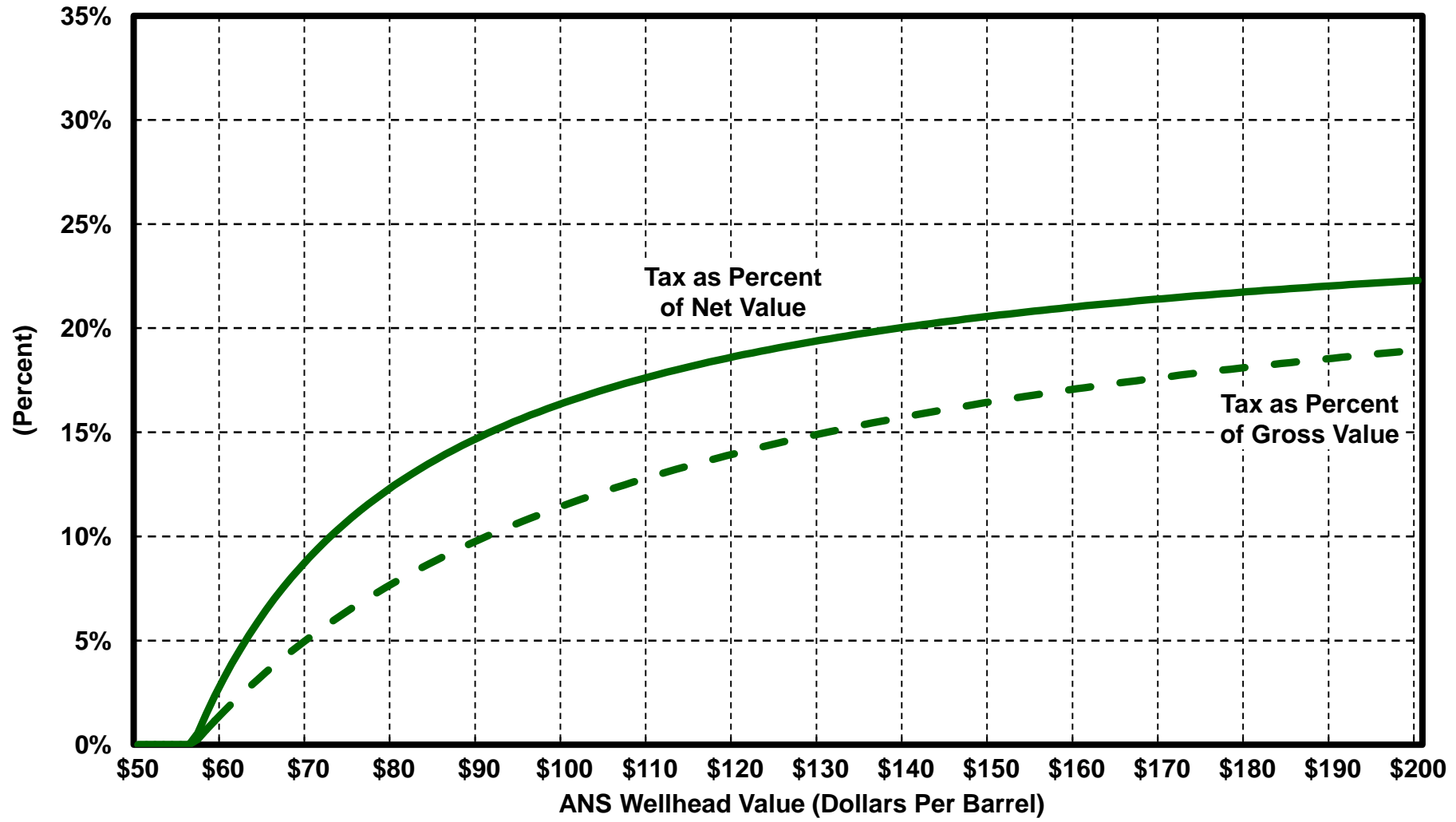


Note: Per barrel credit is equal to \$8/Bbl at wellhead prices below \$80/bbl, diminishing to \$0/Bbl at a wellhead price of \$150/bbl. The minimum tax is 4% of the wellhead value of the oil whenever West Coast ANS is above \$25/Bbl.

Tax Calculation Using Fixed \$5 Production Credit (Volumes Subject to Gross Revenue Exclusion)

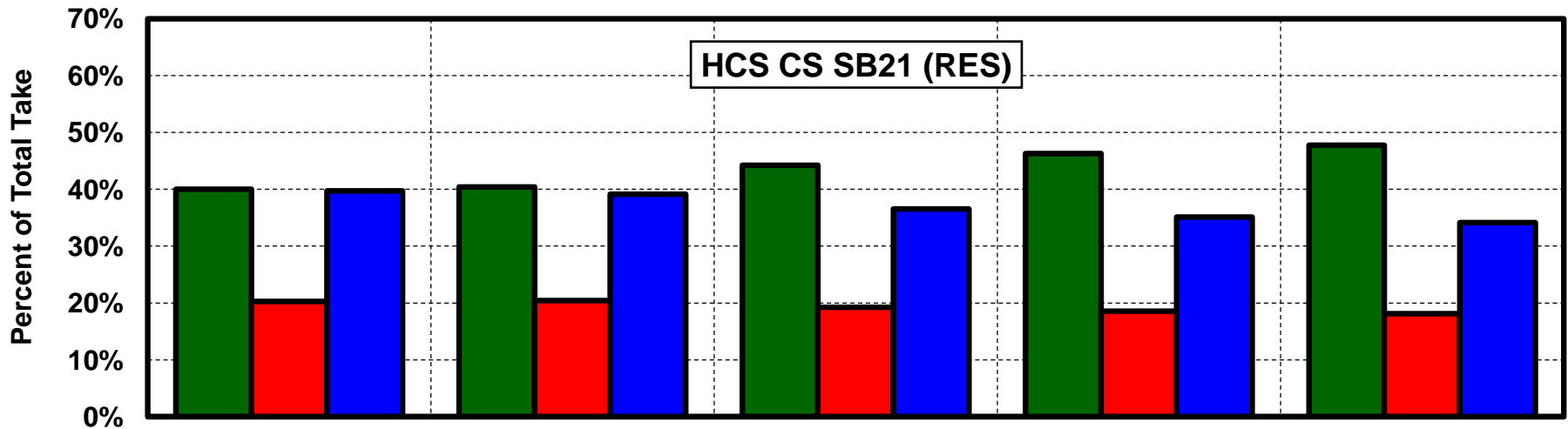
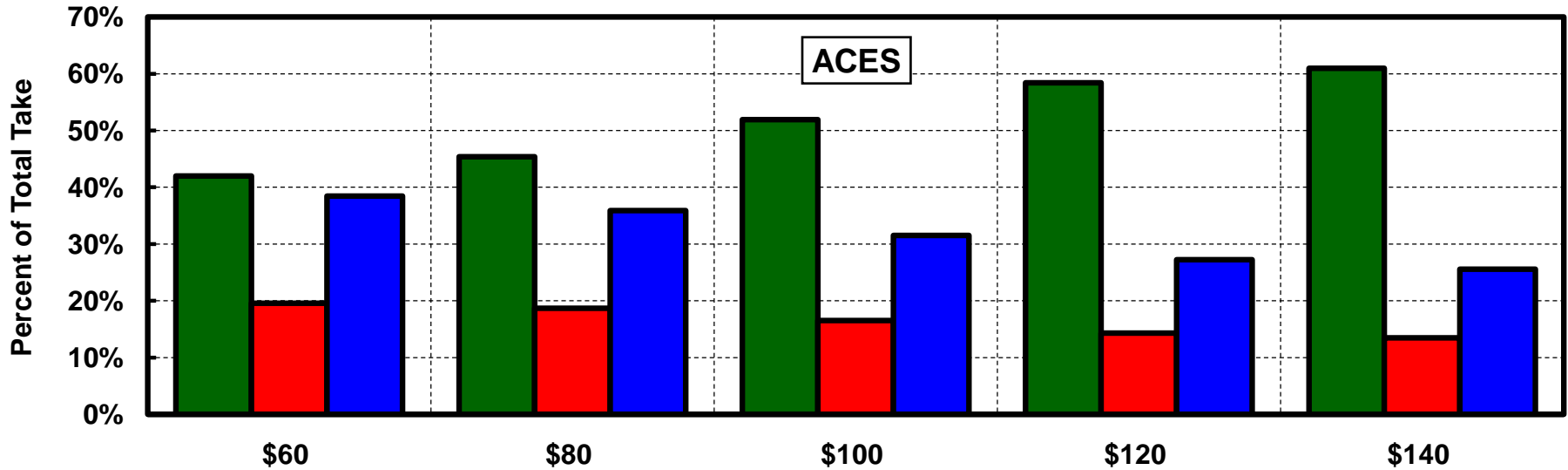
(a) West Coast Price (\$/Bbl)			\$80.00	\$100.00	\$120.00	\$140.00	\$160.00
(b) Transportation (\$/Bbl)	-		10.00	10.00	10.00	10.00	10.00
(c) Gross Value (\$/Bbl)	(a) - (b)	=	\$70.00	\$90.00	\$110.00	\$130.00	\$150.00
(d) Lease Expenditures (\$/Bbl)	-		30.00	30.00	30.00	30.00	30.00
(e) Net Value (\$/Bbl)	(c) - (d)	=	\$40.00	\$60.00	\$80.00	\$100.00	\$120.00
(f) Gross Revenue Exclusion (%)			20%	20%	20%	20%	20%
(g) Gross Value After GRE (\$/Bbl)	(c) x [100%-(h)]		\$56.00	\$72.00	\$88.00	\$104.00	\$120.00
(h) Net Value After GRE (\$/Bbl)	(g) - (d)		\$26.00	\$42.00	\$58.00	\$74.00	\$90.00
(i) Tax Rate (Percent)	x		33%	33%	33%	33%	33%
(j) Production Tax Before Credit (\$/Bbl)	(h) x (i)	=	\$8.58	\$13.86	\$19.14	\$24.42	\$29.70
(k) Production Credit (\$/Bbl)	-		5.00	5.00	5.00	5.00	5.00
(l) Production Tax After Credit (\$/Bbl)	(j) - (k)	=	\$3.58	\$8.86	\$14.14	\$19.42	\$24.70
(m) Taxable Barrels (Bbls)	x		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
(n) Total Production Tax After Credit (\$000)	(l) x (m)	=	\$3,580	\$8,860	\$14,140	\$19,420	\$24,700
(o) Effective Tax Rate on Net Value (%)	(l) ÷ (e)		9.0%	14.8%	17.7%	19.4%	20.6%
(p) Effective Tax Rate on Gross Value (%)	(l) ÷ (c)		5.1%	9.8%	12.9%	14.9%	16.5%

Effective Tax Rates Under HCS CS SB21 (RES) (Volumes Subject to Gross Revenue Exclusion)



State, Federal and Producer Take at Various \$2012 WC ANS Prices for All Producers (FY 2015 - FY 2019)

ACES and HCS CS SB21 (RES)

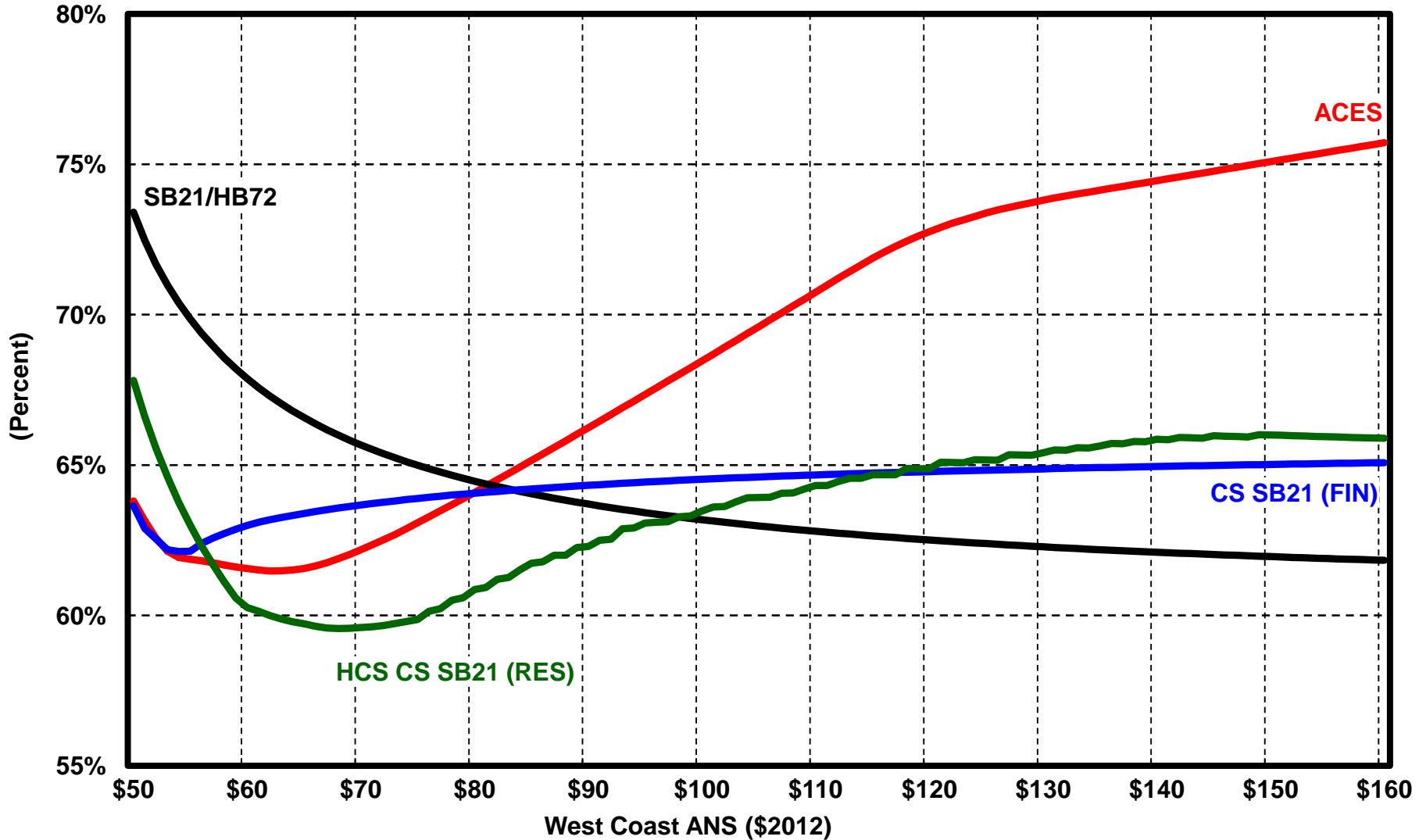


Average Government Take for All Existing Producers (FY2015-FY2019)

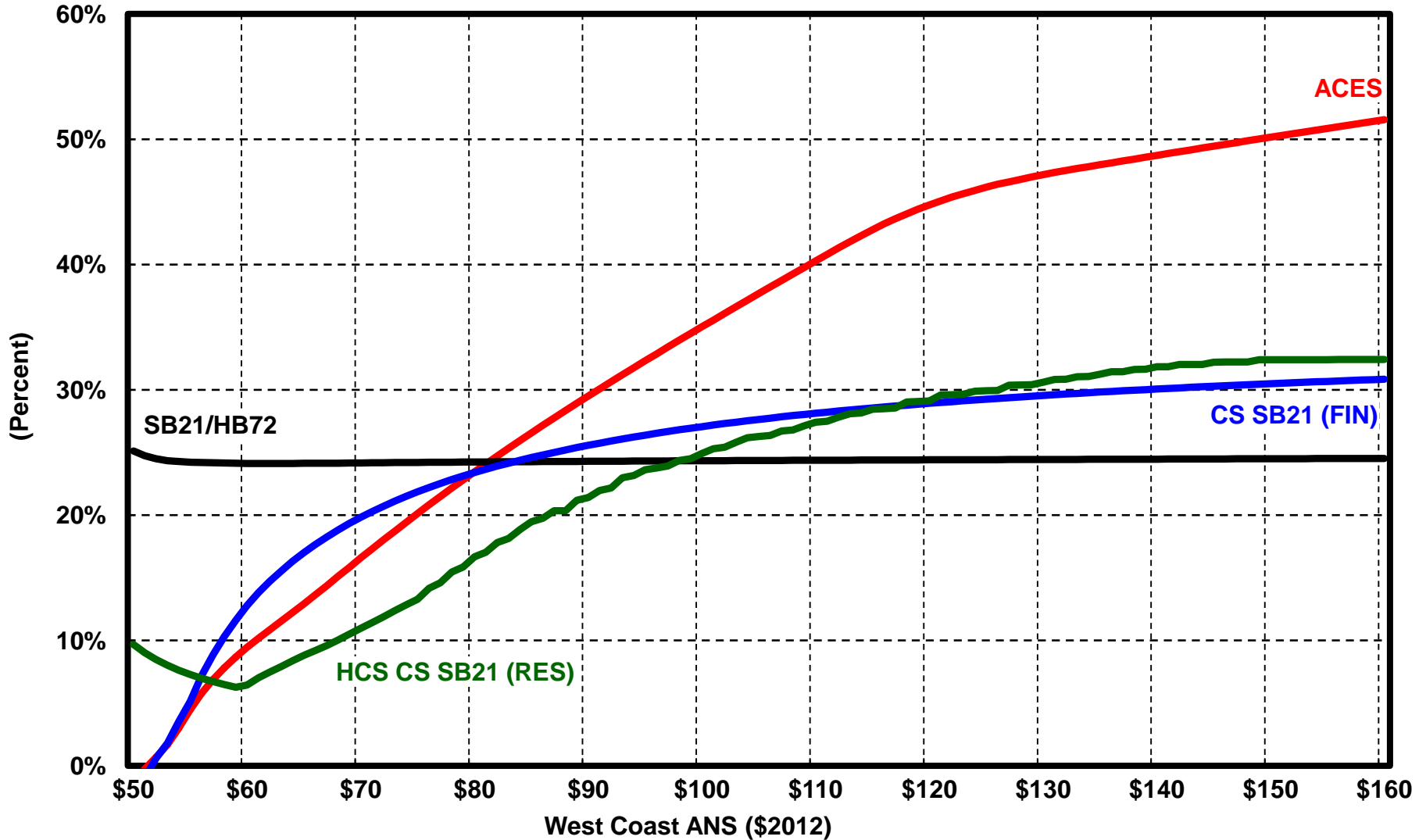
\$2012 West Coast ANS Price (\$2012 \$/Bbl)	Government Take			
	HB72/SB21	CS SB21 (FIN)	HCS CS SB21 (RES)	ACES
(1)	(2)	(3)	(4)	(5)
\$60	67.9%	63.0%	60.3%	61.6%
\$70	65.7%	63.7%	59.6%	62.2%
\$80	64.5%	64.1%	60.9%	64.1%
\$90	63.7%	64.3%	62.3%	66.2%
\$100	63.2%	64.5%	63.5%	68.5%
\$110	62.8%	64.7%	64.3%	70.7%
\$120	62.5%	64.8%	64.9%	72.8%
\$130	62.3%	64.9%	65.4%	73.8%
\$140	62.1%	65.0%	65.9%	74.5%
\$150	62.0%	65.0%	66.0%	75.1%
\$160	61.8%	65.1%	65.9%	75.7%

Note: Under HCS CS SB21 (RES), per barrel credit is equal to \$8/Bbl at wellhead prices below \$80/bbl, diminishing to \$0/Bbl at a wellhead price of \$150/bbl. The minimum tax is 4% of the wellhead value of the oil whenever West Coast ANS is above \$25/Bbl for non-GRE barrels.

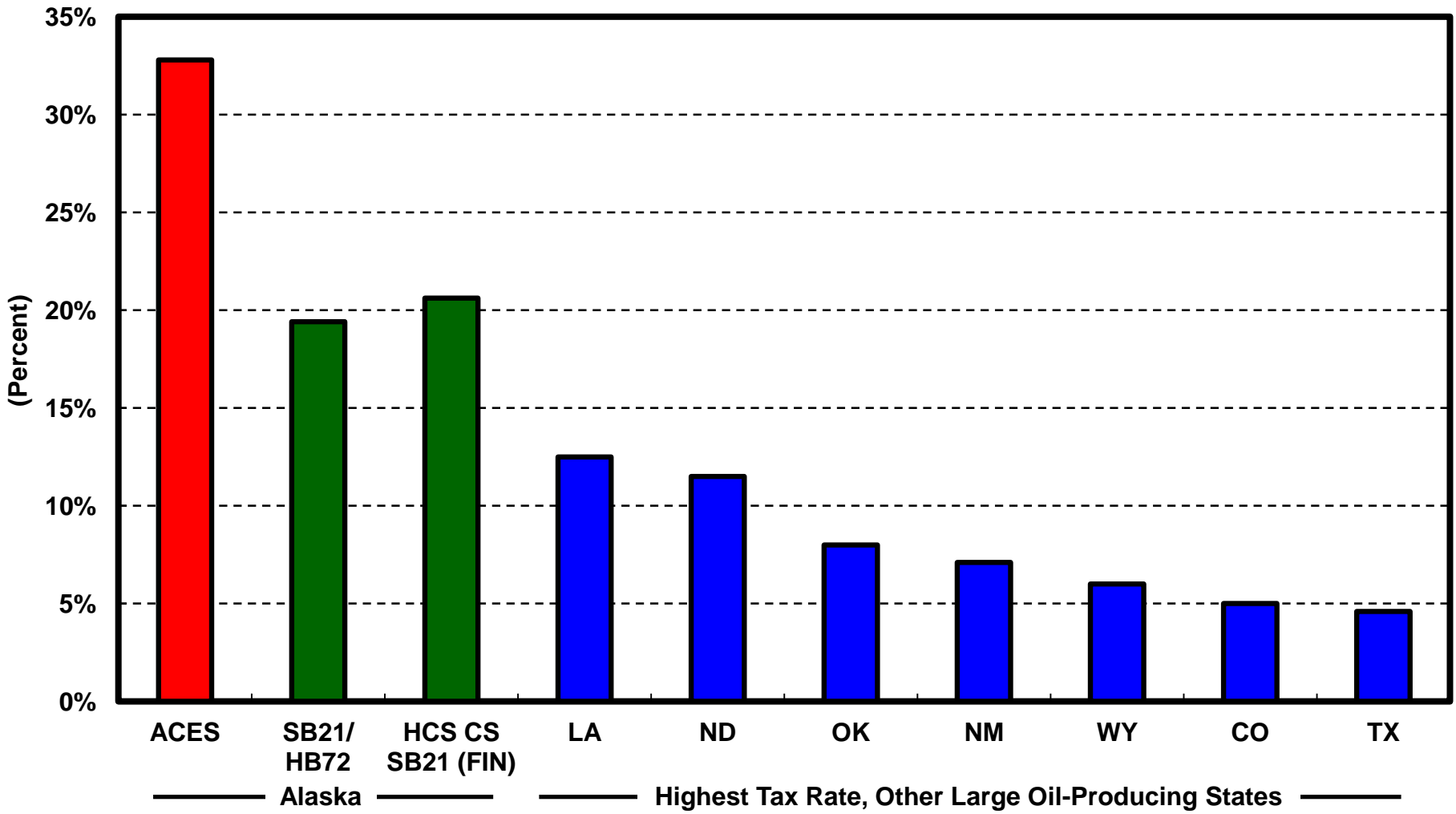
Average Government Take for All Existing Producers (FY2015-FY2019) ACES v. SB21/HB72, CS SB21 (FIN) and HCS CS SB21 (RES)



Effective Tax Rate for All Existing Producers (FY2015-FY2019) ACES v. SB21/HB72, CS SB21 (FIN) and HCS CS SB21 (RES)



Effective Tax Rates on Gross Value for Legacy Production ACES vs. SB21/HB72, HCS CS SB21 (RES) and Other Large Oil-Producing States With Production Taxes at \$100 Wellhead Value*



Note: California and Federal Offshore properties are not subject to a severance tax.
 * FY2012 Combined PBU/KPU Costs and Volumes

Summary of Investment Measures for New Participant 50 MMBO Alaska Oil Development ACES and HCS CS SB21 (RES) v. Benchmark Areas



Real \$2012 West Coast ANS Price	ACES		HCS CS SB21 (RES)		Unconventional Lower-48 Eagle Ford	Bakken	Offshore GOM	Canada Oil Sands SAGD	Norway	United Kingdom	
	16.67% Royalty	12.50% Royalty	GRE 16.67% Royalty	Non-GRE 12.50% Royalty						Pre-1993 w/ Brownfield Allowance*	Post-1993 w/ Brownfield Allowance*
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Producer NPV-12 / BOE (Dollars Per BOE)											
\$80	\$2.28	\$2.76	\$3.24	\$2.95	\$3.61	\$0.67	\$2.80	(\$0.93)	\$0.24	\$4.81	\$4.62
\$100	\$4.17	\$4.68	\$6.35	\$6.39	\$6.75	\$4.29	\$6.22	\$0.46	\$2.34	\$7.09	\$8.25
\$120	\$5.79	\$6.35	\$9.21	\$9.80	\$11.17	\$9.16	\$9.64	\$2.01	\$4.44	\$9.09	\$11.88
Profitability Index-12											
\$80	1.18	1.22	1.26	1.24	1.25	1.04	1.25	0.88	1.01	1.22	1.21
\$100	1.33	1.37	1.51	1.51	1.47	1.28	1.55	1.06	1.14	1.33	1.38
\$120	1.46	1.51	1.74	1.78	1.78	1.60	1.85	1.26	1.27	1.42	1.55
IRR (Percent)											
\$80	18.4%	19.6%	19.5%	18.8%	29.9%	13.6%	18.3%	9.7%	12.4%	34.5%	24.7%
\$100	23.3%	24.5%	25.6%	25.4%	46.3%	22.7%	24.3%	13.1%	16.0%	45.2%	32.9%
\$120	26.9%	28.1%	30.5%	31.1%	73.6%	37.0%	29.3%	16.3%	19.3%	53.5%	40.2%
5-Year (2017-2021) Cash Margins (Dollars Per BOE)											
\$80	\$20.82	\$22.25	\$23.62	\$22.41	\$23.39	\$28.39	\$26.31	\$26.07	\$34.51	\$22.94	\$29.35
\$100	\$26.78	\$28.26	\$33.03	\$32.55	\$29.99	\$36.48	\$37.34	\$29.14	\$39.42	\$28.85	\$37.82
\$120	\$30.79	\$32.26	\$40.98	\$42.16	\$36.87	\$44.91	\$48.37	\$33.37	\$44.32	\$31.29	\$46.30
Government Take (Percent)											
\$80	70.4%	67.8%	60.2%	61.4%	71.7%	77.1%	55.7%	63.4%	67.8%	61.0%	52.0%
\$100	73.9%	72.0%	62.1%	61.3%	67.9%	72.1%	52.6%	63.5%	71.7%	68.6%	55.8%
\$120	76.0%	74.4%	63.5%	61.3%	65.1%	68.7%	50.9%	63.0%	73.4%	72.0%	57.5%
State/Municipal NPV-12/BOE (Dollars Per BOE)											
\$80	\$6.06	\$5.33	\$4.58	\$5.03	-	-	-	-	-	-	-
\$100	\$11.80	\$11.02	\$8.45	\$8.39	-	-	-	-	-	-	-
\$120	\$17.96	\$17.10	\$12.70	\$11.78	-	-	-	-	-	-	-

* Brownfield Allowance applied to 100 MMBOE development.

Alaska Oil Development : New development profile and costs are based on Pioneer's presentation dated February 18, 2013 -- \$18/Bbl. Development Capex.

Summary of Investment Measures for Incumbent 50 MMBO Alaska Oil Development ACES and HCS CS SB21 (RES) v. Benchmark Areas

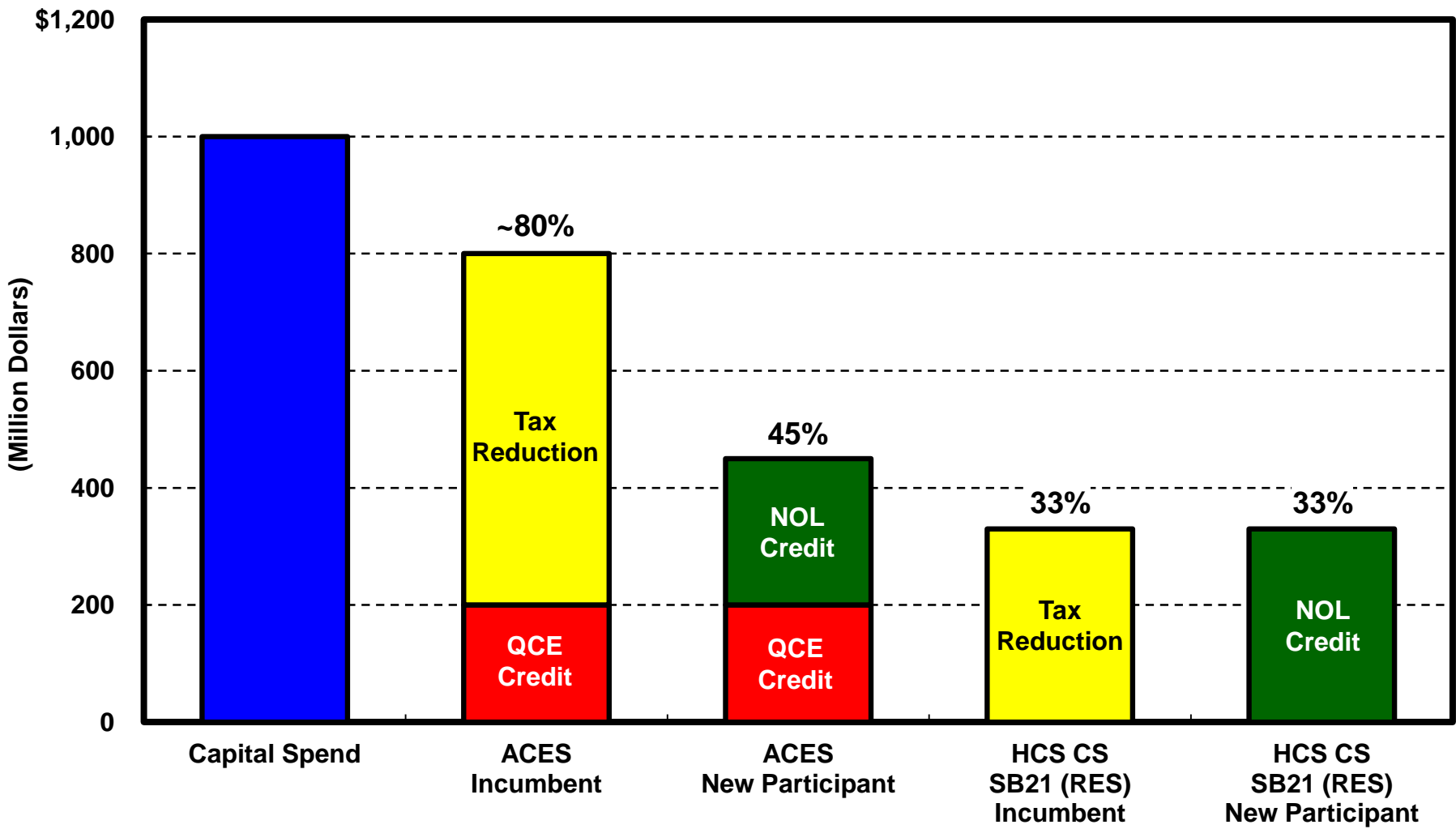
Real \$2012 West Coast ANS Price	ACES		HCS CS SB21 (RES)		Unconventional Lower-48 Eagle Ford	Offshore GOM	Canada Oil Sands SAGD	Norway	United Kingdom		
	16.67% Royalty	12.50% Royalty	GRE 16.67% Royalty	Non-GRE 12.50% Royalty					w/ Brownfield Allowance*	Post-1993 w/ Brownfield Allowance*	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Producer NPV-12 / BOE (Dollars Per BOE)											
\$80	\$3.44	\$3.88	\$3.23	\$3.04	\$3.61	\$0.67	\$2.80	(\$0.93)	\$0.24	\$4.81	\$4.62
\$100	\$5.94	\$6.39	\$6.14	\$6.24	\$6.75	\$4.29	\$6.22	\$0.46	\$2.34	\$7.09	\$8.25
\$120	\$8.28	\$8.82	\$8.92	\$9.54	\$11.17	\$9.16	\$9.64	\$2.01	\$4.44	\$9.09	\$11.88
Profitability Index-12											
\$80	1.27	1.31	1.26	1.24	1.25	1.04	1.25	0.88	1.01	1.22	1.21
\$100	1.47	1.51	1.49	1.50	1.47	1.28	1.55	1.06	1.14	1.33	1.38
\$120	1.66	1.70	1.71	1.76	1.78	1.60	1.85	1.26	1.27	1.42	1.55
IRR (Percent)											
\$80	23.7%	24.9%	19.6%	19.2%	29.9%	13.6%	18.3%	9.7%	12.4%	34.5%	24.7%
\$100	34.8%	36.1%	25.4%	25.3%	46.3%	22.7%	24.3%	13.1%	16.0%	45.2%	32.9%
\$120	47.8%	49.3%	30.2%	30.9%	73.6%	37.0%	29.3%	16.3%	19.3%	53.5%	40.2%
5-Year (2017-2021) Cash Margins (Dollars Per BOE)											
\$80	\$20.26	\$21.48	\$23.10	\$22.72	\$23.39	\$28.39	\$26.31	\$26.07	\$34.51	\$22.94	\$29.35
\$100	\$25.51	\$26.81	\$31.36	\$31.58	\$29.99	\$36.48	\$37.34	\$29.14	\$39.42	\$28.85	\$37.82
\$120	\$28.68	\$30.18	\$39.20	\$40.45	\$36.87	\$44.91	\$48.37	\$33.37	\$44.32	\$31.29	\$46.30
Government Take (Percent)											
\$80	67.5%	65.0%	60.9%	61.6%	71.7%	77.1%	55.7%	63.4%	67.8%	61.0%	52.0%
\$100	71.9%	70.2%	63.0%	62.0%	67.9%	72.1%	52.6%	63.5%	71.7%	68.6%	55.8%
\$120	73.3%	71.7%	64.4%	62.1%	65.1%	68.7%	50.9%	63.0%	73.4%	72.0%	57.5%
State/Municipal NPV-12/BOE (Dollars Per BOE)											
\$80	\$4.27	\$3.60	\$4.61	\$4.89	-	-	-	-	-	-	-
\$100	\$9.08	\$8.38	\$8.77	\$8.62	-	-	-	-	-	-	-
\$120	\$14.13	\$13.30	\$13.15	\$12.19	-	-	-	-	-	-	-

Note: Analysis of incumbent production includes "buy-down" impact for reduced taxes on existing production.

* Brownfield Allowance applied to 100 MMBOE development.

Alaska Oil Development : New development profile and costs are based on Pioneer's presentation dated February 18, 2013 -- \$18/Bbl. Development Capex.

State Support for Capital Spending Under ACES and HCS CS SB21 (RES) at \$100 West Coast ANS (\$2012)

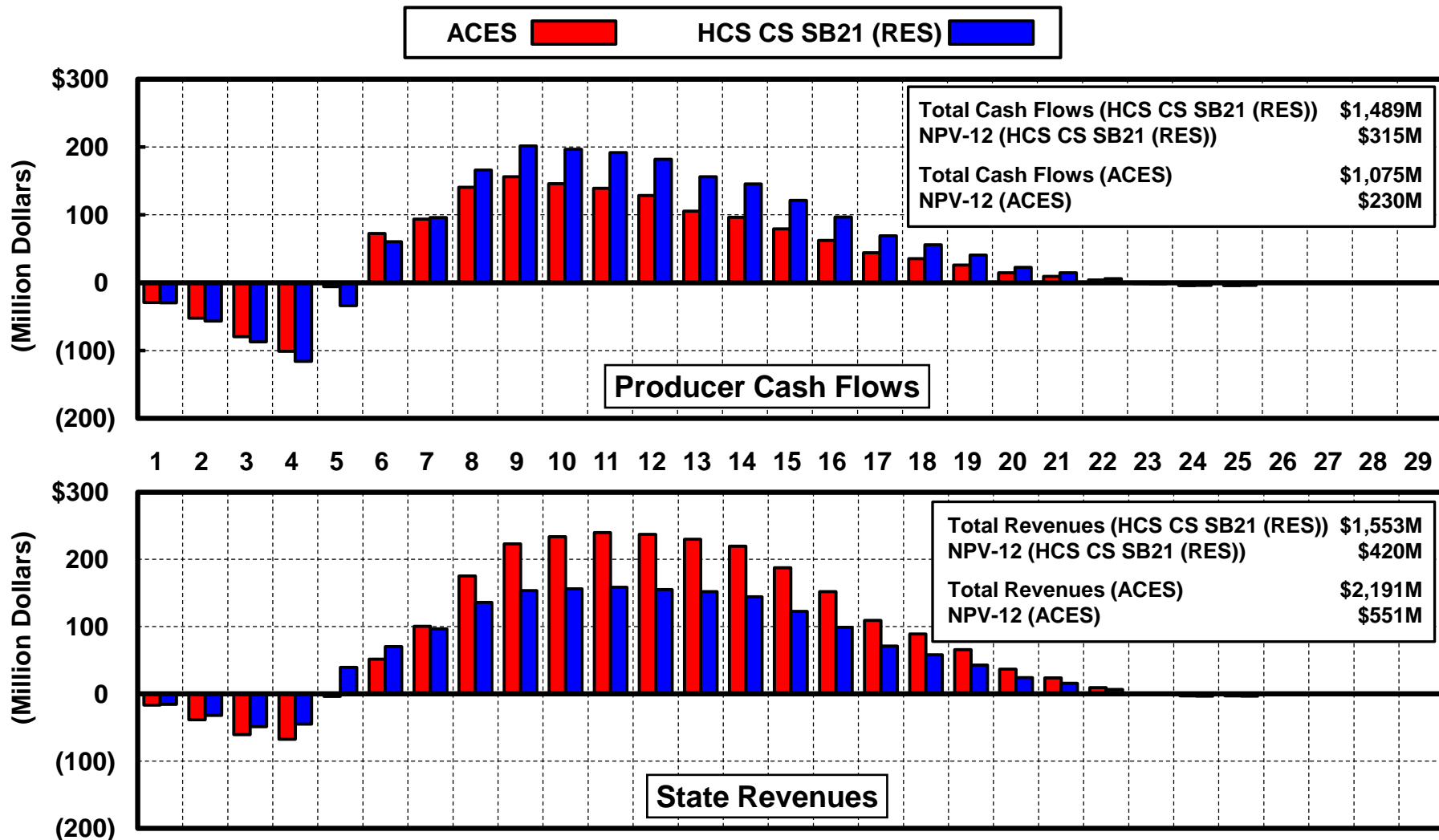


Assumes \$1 billion of development spending prior to new production

Annual State Revenues and Producer Cash Flows at \$100 West Coast ANS (\$2012)

50 MMBO Alaska Oil Development

New Participant in Alaska

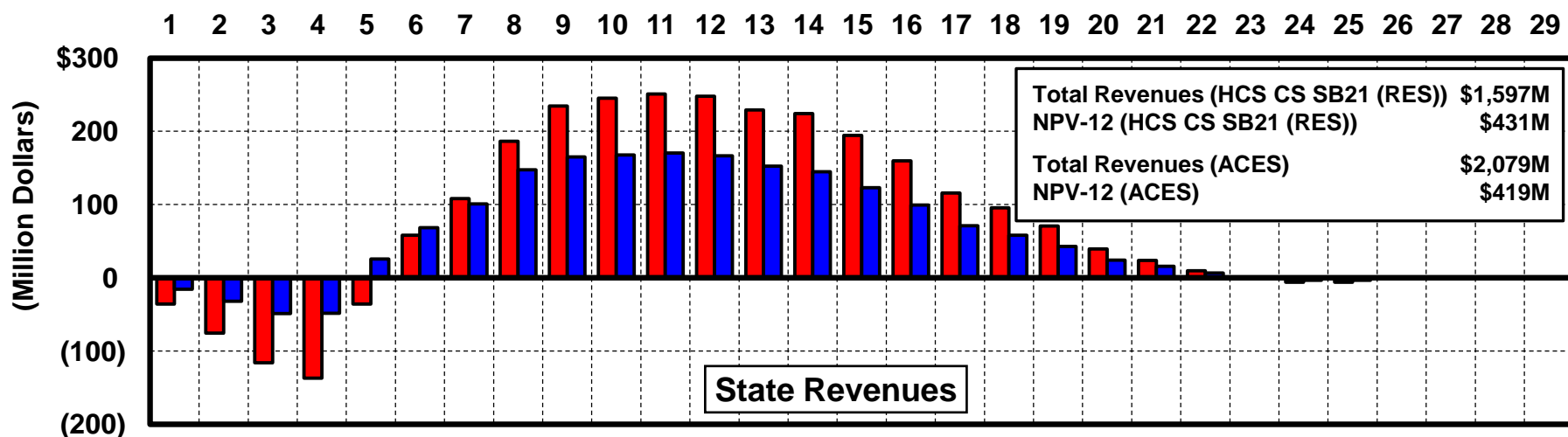
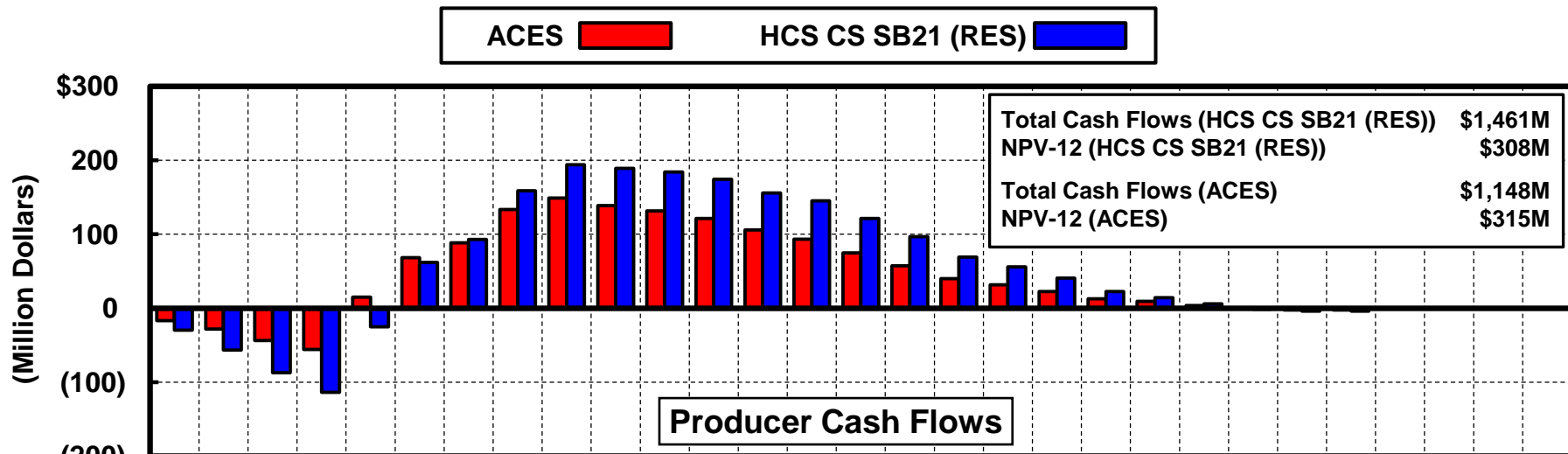


New development profile and costs are based on Pioneer's presentation dated February 18, 2013 -- \$18/Bbl. Development Capex.

Annual State Revenues and Producer Cash Flows at \$100 West Coast ANS (\$2012)

50 MMBO Alaska Oil Development

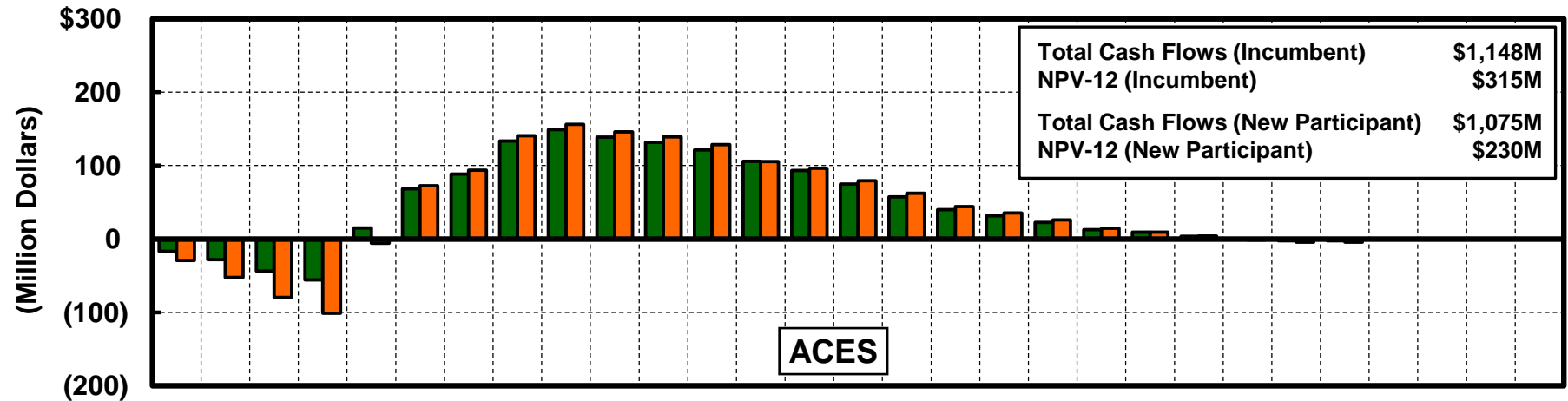
Incumbent Participant in Alaska



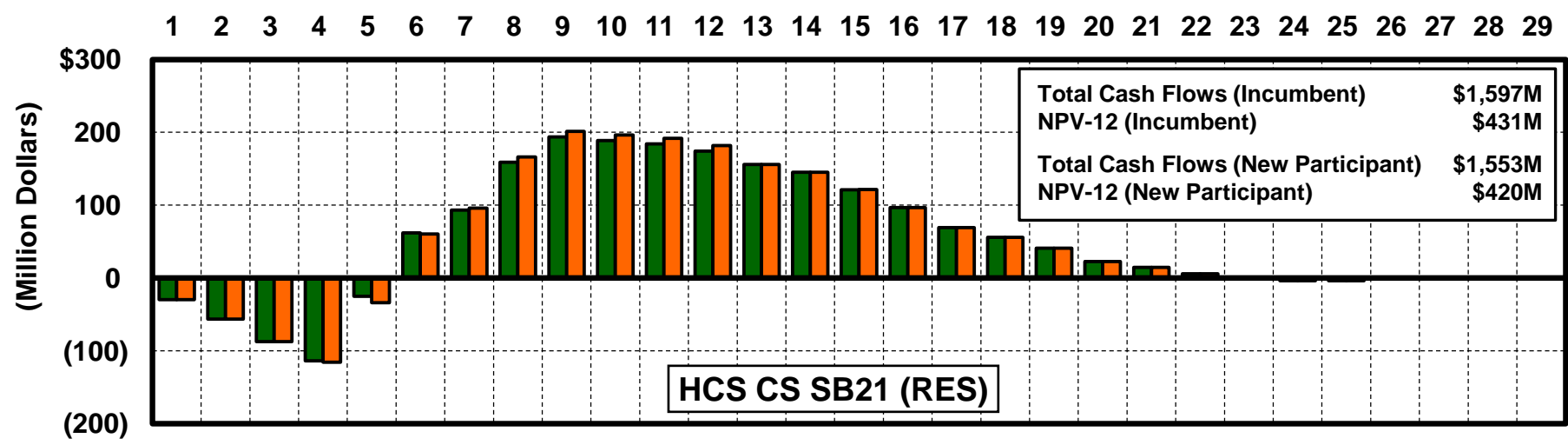
New development profile and costs are based on Pioneer's presentation dated February 18, 2013 -- \$18/Bbl. Development Capex.

Annual Producer Cash Flows at \$100 West Coast ANS (\$2012) 50 MMBO Alaska Oil Development

Incumbent █ New Participant █



ACES



HCS CS SB21 (RES)

New development profile and costs are based on Pioneer's presentation dated February 18, 2013 -- \$18/Bbl. Development Capex.

Additional Volumes Need to Offset Projected Fiscal Impact of HCS CS SB21 (RES) (FY2014 - FY2043)

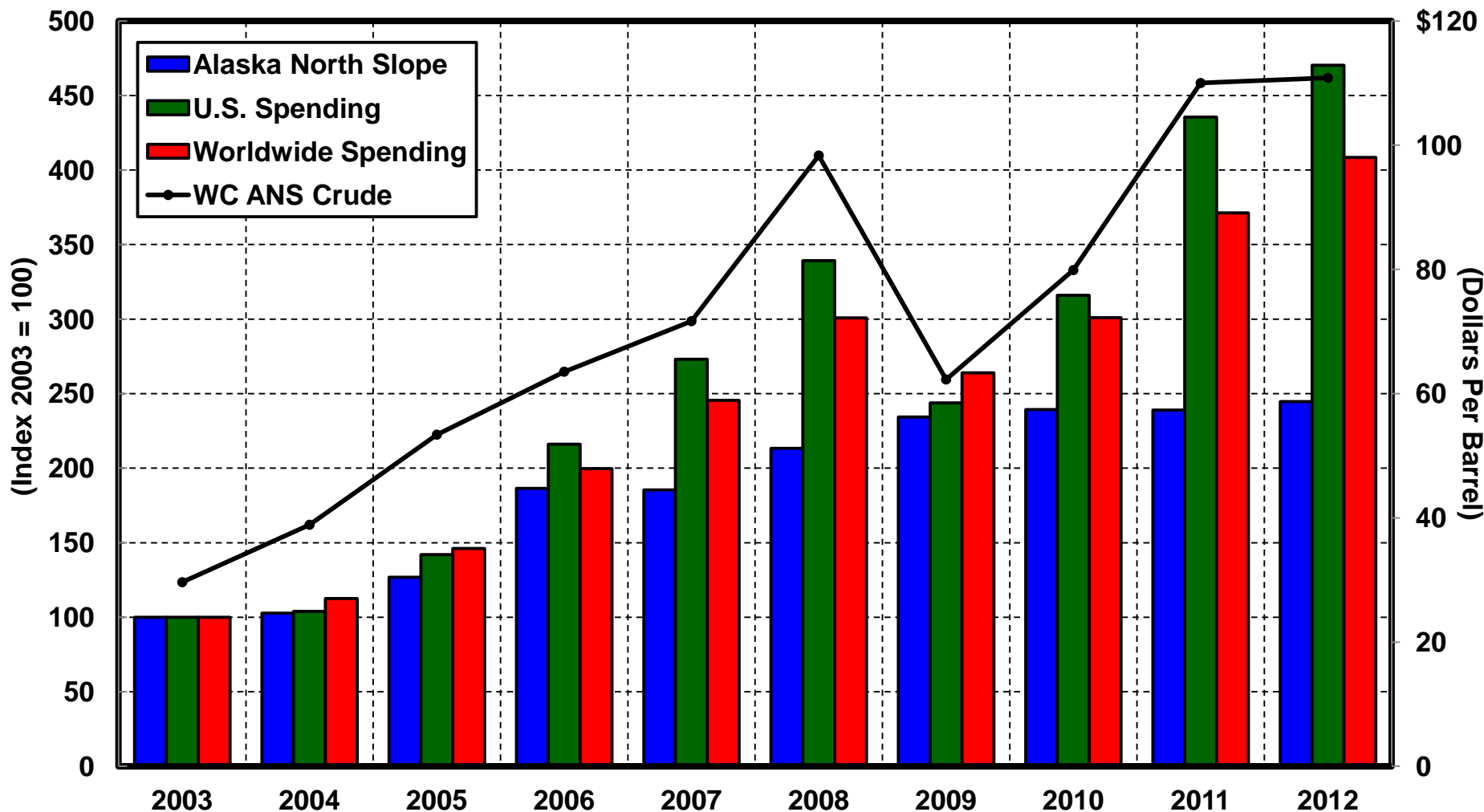
Assumptions: \$18/Bbl Development Cost
Price = \$105/Bbl West Coast ANS Price (\$2012)
Taxes Per HCS CS SB21 (RES): 33% Base Rate, \$5/Bbl Credit (GRE Volumes), 20% GRE

	<u>16.67% Royalty</u>	<u>12.5% Royalty</u>
State Revenue From New Development (\$2012/Bbl)		
Excluding Impact on Tariff	\$25.25	\$22.25
Tariff Impact	\$3.50	\$3.50
Total	<u>\$28.75</u>	<u>\$25.75</u>
Annual Average Revenue Loss Assuming No New Development 2014 - 2043 (\$2012 Million)	\$475	\$475
Total Barrels Needed to Develop (MMBO)	496	553
Annual Barrels Needed (MMBO)	17	18
Central North Slope Undiscovered Conventional Economically Recoverable Resources (MMBO)	3,000	3,000
% of Resources Required Annually	0.6%	0.6%
Additional Needed on Daily Basis (BPD)	45,000	51,000

Testing Reasonableness of Achieving Breakeven Development Capital Required (\$2012)

Annual Development Required (Barrels)		17,500,000
\$/Bbl Development Costs	x	\$18
		<hr/>
Annual Capital Required (Dollars)	=	\$315,000,000
2012 Capital Spending (Dollars)		\$2,400,000,000
Additional Capital Required as Percent of 2012 Spending Level		13.1%

Estimated Capital Spending for Exploration and Development Alaska North Slope vs. U.S. and Worldwide Spending* 2003 - 2012



* North Slope based on tax return information; U.S. based on top 50 public companies; worldwide based on top 75 public companies

Testing Reasonableness of Achieving Breakeven Development Capital Spending Increase at Worldwide Pace

Worldwide Capital Spending Growth 2003-2012 (Percent)		400%
Alaska Capital Spending in 2003 (Dollars)		\$1,000,000,000
Alaska Capital Spending in 2012 with Growth at Worldwide Pace (Dollars)		\$4,000,000,000
Actual 2012 Capital Spending (Dollars)	-	2,400,000,000
		<hr/>
Worldwide Pace vs Actual (Dollars)	=	\$1,600,000,000
Percentage Over Actual 2012 Spending (Percent)		67%
Potential Development @ \$18/Bbl (Barrels)		88,900,000
Breakeven Volume (Barrels)		17,500,000
Difference (Barrels)		71,400,000

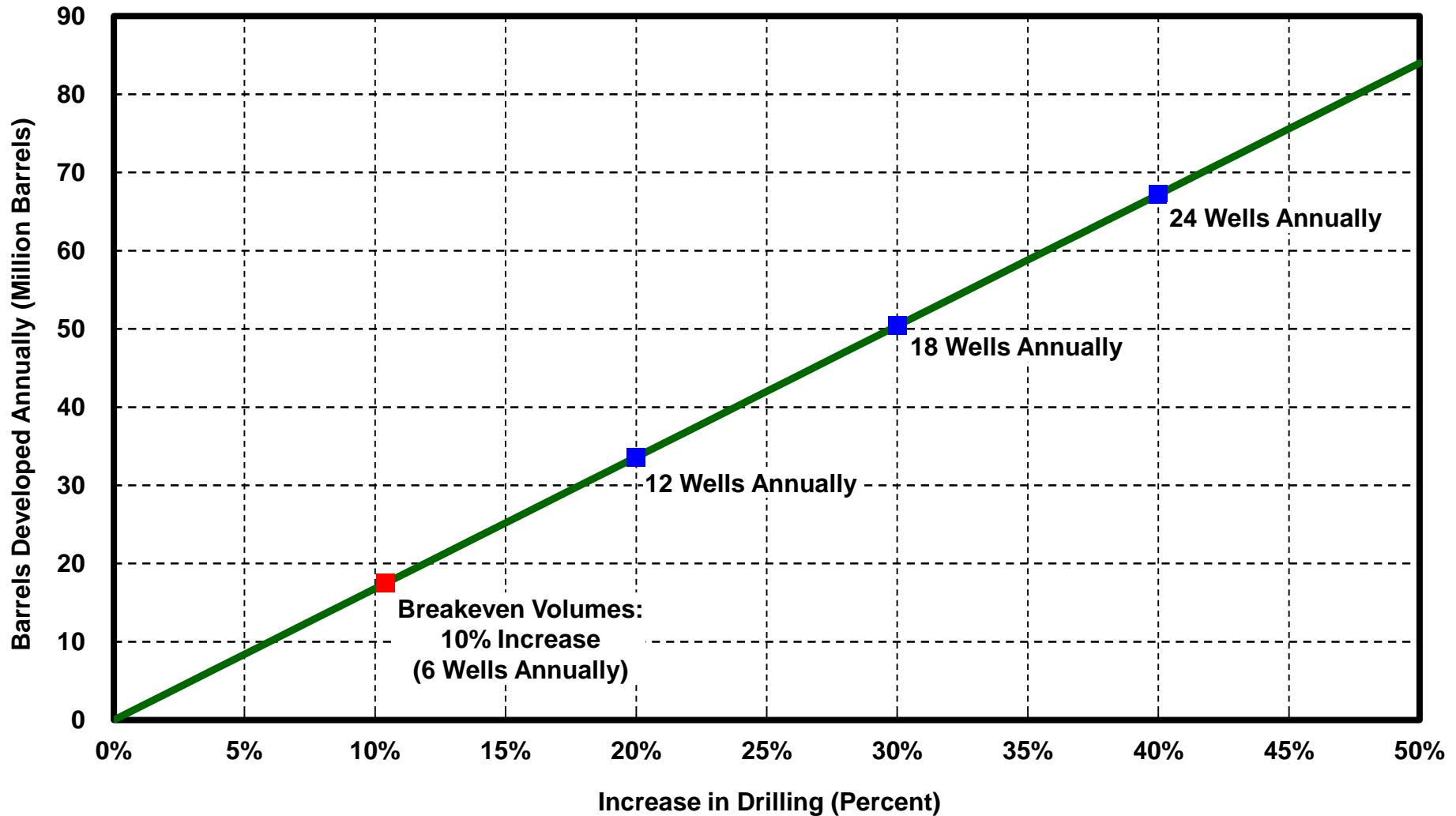
Testing Reasonableness of Achieving Breakeven Development

Gerking, et al. Study of Sensitivity of Drilling to Tax Rates

Drilling Change Due to Reduction in Gross Severance Tax By 5.3 Percentage Points (From 10.6% to 5.3%) *		23.0%
Change Per 1% Change in Severance Tax Rate		4.0%
Change in Alaska Tax Rate (Gross Equivalent) (10 Percentage Points)	x	10%
Implied Impact on Drilling Starts (Percent)	=	40.0%
2012 Well Starts in Alaska with Production	x	60
Implied Increase in Drilling Starts	=	24
Expected First Year Recovery (Barrels) (Assumes 80% in-field wells with initial production of 1,000 b/d; 20% new field drilling with initial production of 2,000 b/d)		10,512,000
Total Expected Recovery (Barrels) (Assumes 15% Annual Decline)		67,200,000

* "Kunce, Gerking and Morgan, 2001." Study found that a hypothetical doubling of the severance tax rate in Wyoming from 5.3% to 10.6% would result in a 19.4% decrease in drilling rates (from 211 new wells to 170 new wells annually). Reversing the direction of the tax change (i.e., a reduction from 10.6% to 5.3%), therefore, would be expected to increase drilling by 23% (from 170 to 211 wells). The study also found that while the impact of a tax increase on new drilling (i.e., new investment) was relatively large, the impact on overall production was relatively small, as new wells bring on an average of approximately 75 barrels per day of initial production in Wyoming and production from existing wells (i.e., prior investments) would not be significantly reduced. Average well productivity in Alaska is significantly higher than in Wyoming (1,000 barrels per day v. 75 barrels per day). Accordingly, a similar impact on drilling rates in Alaska would carry with it a much greater impact on total State production.

Testing Reasonableness of Achieving Breakeven Development Relationship Between Drilling Increases and Expected Barrels Developed Annually



HCS CS SB21 (RES) Per-Barrel Credits for Non-GRE Volumes

Stepped Scale v. Smoothed Scale

