

Pulling Together to Build Our Future

Oil and Gas Tax Credit Reform- HB247

Department of Revenue "Additional Modeling – Committee Requests" **Response to the House Resources Committee** Attachment to letter dated March 17, 2016

Contents / Modeling Scenarios

Part 2a: Prior Presentation

- Impact of minimum tax changes on current production
- North Slope- 50 mm bbl new field life cycle analysis
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This Presentation

- North Slope- 750 mm bbl new field life cycle analysis (high royalty / 30% GVR alternative)
- North Slope-750 mm bbl new field life cycle analysis (50% private royalty / 50% state royalty alternative)
- Cook Inlet- 670 bcf new gas field life cycle analysis
- Middle Earth- 670 bcf new gas field life cycle analysis

North Slope Life Cycle Modeling 750 mmbo Status Quo, 16.67% Royalty / 30% GVR - \$40/bbl







Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,982
Production Tax Paid	89
Net Production Tax	-2,893
Production Tax NPV 6.15%	-2,096
Total Annual State Losses	2,810
Total Annual State Gains	3,907
Net State Gain (Loss)	1,097
State NPV 6.15%	-756
Total Producer Cash Out	6,524
Total Producer Cash In	8,180
Net Producer Cash Flow	1,656
Producer Cash NPV 6.15%	-1,965

North Slope Life Cycle Modeling 750 mmbo Status Quo, 16.67% Royalty / 30% GVR - \$60/bbl







\$Millions
2,905
4,083
1,178
-772
2,642
10,852
8,210
1,578
5,663
12,426
6,764
48

North Slope Life Cycle Modeling 750 mmbo Status Quo, 16.67% Royalty / 30% GVR - \$80/bbl







Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,841
Production Tax Paid	8,313
Net Production Tax	5,472
Production Tax NPV 6.15%	656
Total Annual State Losses	2,473
Total Annual State Gains	18,005
Net State Gain (Loss)	15,532
State NPV 6.15%	4,030
Total Producer Cash Out	5,289
Total Producer Cash In	17,024
Net Producer Cash Flow	11,735
Producer Cash NPV 6.15%	1,879

750 mmbo Status Quo, 16.67% Royalty / 30% GVR – Fall FC Price







Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,874
Production Tax Paid	6,497
Net Production Tax	3,623
Production Tax NPV 6.15%	35
Total Annual State Losses	2,558
Total Annual State Gains	14,941
Net State Gain (Loss)	12,383
State NPV 6.15%	2,964
Total Producer Cash Out	5,410
Total Producer Cash In	15,015
Net Producer Cash Flow	9,604
Producer Cash NPV 6.15%	1,092

750 mmbo Status Quo, 16.67% Royalty / 30% GVR, Co w/ >\$10B - \$80/bbl



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North Slope Life Cycle Modeling 750 mmbo HB 247, 16.67% Royalty / 30% GVR - \$40/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	136
Production Tax Paid	897
Net Production Tax	761
Production Tax NPV 6.15%	190
Total Annual State Losses	100
Total Annual State Gains	4,674
Net State Gain (Loss)	4,574
State NPV 6.15%	1,496
Total Producer Cash Out	9,417
Total Producer Cash In	8,488
Net Producer Cash Flow	-928
Producer Cash NPV 6.15%	-4,049

North Slope Life Cycle Modeling 750 mmbo HB 247, 16.67% Royalty / 30% GVR - \$60/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	117
Production Tax Paid	2,722
Net Production Tax	2,605
Production Tax NPV 6.15%	679
Total Annual State Losses	100
Total Annual State Gains	9,644
Net State Gain (Loss)	9,544
State NPV 6.15%	2,992
Total Producer Cash Out	8,502
Total Producer Cash In	14,398
Net Producer Cash Flow	5,897
Producer Cash NPV 6.15%	-1,179

North Slope Life Cycle Modeling 750 mmbo HB 247, 16.67% Royalty / 30% GVR - \$80/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	110
Production Tax Paid	5,928
Net Production Tax	5,818
Production Tax NPV 6.15%	1,557
Total Annual State Losses	100
Total Annual State Gains	15,955
Net State Gain (Loss)	15,855
State NPV 6.15%	4,918
Total Producer Cash Out	7,919
Total Producer Cash In	19,444
Net Producer Cash Flow	11,525
Producer Cash NPV 6.15%	1,052

North Slope Life Cycle Modeling 750 mmbo HB 247, 16.67% Royalty / 30% GVR – Fall FC Price

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	112
Production Tax Paid	4,283
Net Production Tax	4,171
Production Tax NPV 6.15%	1,078
Total Annual State Losses	100
Total Annual State Gains	12,996
Net State Gain (Loss)	12,896
State NPV 6.15%	3,991
Total Producer Cash Out	8,168
Total Producer Cash In	17,439
Net Producer Cash Flow	9,271
Producer Cash NPV 6.15%	154

North Slope Life Cycle Modeling 750 mmbo HB 247, 16.67% Royalty / 30% GVR, Co w/>\$10B - \$80/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	0
Production Tax Paid	5,818
Net Production Tax	5,818
Production Tax NPV 6.15%	1,621
Total Annual State Losses	0
Total Annual State Gains	15,855
Net State Gain (Loss)	15 <i>,</i> 855
State NPV 6.15%	4,982
Total Producer Cash Out	8,094
Total Producer Cash In	19,619
Net Producer Cash Flow	11,525
Producer Cash NPV 6.15%	991

North Slope Life Cycle Modeling 750 mmbo Status Quo, 50% Private Royalty / 20% GVR - \$40/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,963
Production Tax Paid	294
Net Production Tax	-2,668
Production Tax NPV 6.15%	-2,023
Total Annual State Losses	2,900
Total Annual State Gains	1,929
Net State Gain (Loss)	-971
State NPV 6.15%	-1,474
Total Producer Cash Out	6,437
Total Producer Cash In	8,525
Net Producer Cash Flow	2,089
Producer Cash NPV 6.15%	-1,785

750 mmbo Status Quo, 50% Private Royalty / 20% GVR - \$60/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,892
Production Tax Paid	4,577
Net Production Tax	1,685
Production Tax NPV 6.15%	-602
Total Annual State Losses	2,792
Total Annual State Gains	7,677
Net State Gain (Loss)	4,886
State NPV 6.15%	433
Total Producer Cash Out	5,570
Total Producer Cash In	12,974
Net Producer Cash Flow	7,404
Producer Cash NPV 6.15%	286

750 mmbo Status Quo, 50% Private Royalty / 20% GVR - \$80/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,823
Production Tax Paid	9,080
Net Production Tax	6,256
Production Tax NPV 6.15%	925
Total Annual State Losses	2,684
Total Annual State Gains	13,631
Net State Gain (Loss)	10,947
State NPV 6.15%	2,458
Total Producer Cash Out	5,250
Total Producer Cash In	17,837
Net Producer Cash Flow	12,587
Producer Cash NPV 6.15%	2,181

750 mmbo Status Quo, 50% Private Royalty / 20% GVR – Fall FC Price

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,858
Production Tax Paid	7,137
Net Production Tax	4,278
Production Tax NPV 6.15%	255
Total Annual State Losses	2,738
Total Annual State Gains	11,069
Net State Gain (Loss)	8,331
State NPV 6.15%	1,572
Total Producer Cash Out	5,377
Total Producer Cash In	15,748
Net Producer Cash Flow	10,371
Producer Cash NPV 6.15%	1,370

750 mmbo Status Quo, 50% Private Royalty / 20% GVR, Co w/ >\$10B - \$80/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	2,823
Production Tax Paid	9,080
Net Production Tax	6,256
Production Tax NPV 6.15%	925
Total Annual State Losses	2,684
Total Annual State Gains	13,631
Net State Gain (Loss)	10,947
State NPV 6.15%	2,458
Total Producer Cash Out	5,250
Total Producer Cash In	17,837
Net Producer Cash Flow	12,587
Producer Cash NPV 6.15%	2,181

North Slope Life Cycle Modeling 750 mmbo HB 247, 50% Private Royalty / 20% GVR - \$40/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	131
Production Tax Paid	1,009
Net Production Tax	878
Production Tax NPV 6.15%	230
Total Annual State Losses	107
Total Annual State Gains	2,459
Net State Gain (Loss)	2,351
State NPV 6.15%	735
Total Producer Cash Out	9,330
Total Producer Cash In	9,221
Net Producer Cash Flow	-109
Producer Cash NPV 6.15%	-3,768

North Slope Life Cycle Modeling 750 mmbo HB 247, 50% Private Royalty / 20% GVR - \$60/bbl

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	113
Production Tax Paid	3,098
Net Production Tax	2,984
Production Tax NPV 6.15%	789
Total Annual State Losses	100
Total Annual State Gains	6,201
Net State Gain (Loss)	6,101
State NPV 6.15%	1,789
Total Producer Cash Out	8,406
Total Producer Cash In	15,021
Net Producer Cash Flow	6,614
Producer Cash NPV 6.15%	-896

North Slope Life Cycle Modeling 750 mmbo HB 247, 50% Private Royalty / 20% GVR - \$80/bbl

Life Cycle Totals	\$Millions		
Production Tax Credits Cashed	108		
Production Tax Paid	6,696		
Net Production Tax	6,588		
Production Tax NPV 6.15%	1,799		
Total Annual State Losses	100		
Total Annual State Gains	11,357		
Net State Gain (Loss)	11,257		
State NPV 6.15%	3,319		
Total Producer Cash Out	7,839		
Total Producer Cash In	20,224		
Net Producer Cash Flow	12,385		
Producer Cash NPV 6.15%	1,379		

North Slope Life Cycle Modeling 750 mmbo HB 247, 50% Private Royalty / 20% GVR – Fall FC Price

Life Cycle Totals	\$Millions		
Production Tax Credits Cashed	110		
Production Tax Paid	4,777		
Net Production Tax	4,667		
Production Tax NPV 6.15%	1,222		
Total Annual State Losses	100		
Total Annual State Gains	8,794		
Net State Gain (Loss)	8,694		
State NPV 6.15%	2,524		
Total Producer Cash Out	8,100		
Total Producer Cash In	18,235		
Net Producer Cash Flow	10,135		
Producer Cash NPV 6.15%	488		

750 mmbo HB 247, 50% Private Royalty / 20% GVR, Co w/>\$10B - \$80/bbl

Life Cycle Totals	\$Millions	
Production Tax Credits Cashed	0	
Production Tax Paid	6,588	
Net Production Tax	6,588	
Production Tax NPV 6.15%	1,862	
Total Annual State Losses	0	
Total Annual State Gains	11,257	
Net State Gain (Loss)	11,257	
State NPV 6.15%	3,382	
Total Producer Cash Out	8,014	
Total Producer Cash In	20,399	
Net Producer Cash Flow	12,385	
Producer Cash NPV 6.15%	1,319	

Summary Table - North Slope Scenarios

750 MM Barrel Field, 16.67% Royalty, 30% GVR; Assumes all Royalty paid to State									
				Net	Production				
		Producer Size		Production	Tax NPV	Net State	State NPV	Producer	Producer
		(>\$10 billion	Credits Paid	Tax Paid	6.15%	Gain (Loss)	6.15%	Cash Flow	NPV 6.15%
Tax Regime	Oil Price	revenue)	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)
Status Quo	\$40	n/a	\$2,982	(\$2,893)	(\$2 <i>,</i> 096)	\$1,097	(\$756)	\$1,656	(\$1,965)
Status Quo	\$60	n/a	\$2,905	\$1,178	(\$772)	\$8,210	\$1,578	\$6,764	\$48
Status Quo	\$80	n/a	\$2,841	\$5,472	\$656	\$15,532	\$4,030	\$11,735	\$1,879
Status Quo	Fall 2015 FC	n/a	\$2 <i>,</i> 874	\$3,623	\$35	\$12,383	\$2,964	\$9 <i>,</i> 604	\$1,092
Status Quo	\$80	Large	\$2 <i>,</i> 841	\$5 <i>,</i> 472	\$656	\$15,532	\$4,030	\$11,735	\$1,879
HB 247	\$40	n/a	\$136	\$761	\$190	\$4,574	\$1,496	(\$928)	(\$4,049)
HB 247	\$60	n/a	\$117	\$2 <i>,</i> 605	\$679	\$9,544	\$2,992	\$5 <i>,</i> 897	(\$1,179)
HB 247	\$80	n/a	\$110	\$5 <i>,</i> 818	\$1,557	\$15,855	\$4,918	\$11,525	\$1,052
HB 247	Fall 2015 FC	n/a	\$112	\$4,171	\$1,078	\$12,896	\$3,991	\$9,271	\$154
HB 247	\$80	Large	\$0	\$5 <i>,</i> 818	\$1,621	\$15,855	\$4,982	\$11,525	\$991
750 MM B	arrel Field,	50% Private	Royalty (at 1	2.5%), 20%	GVR; Assum	es non-Privo	ite Royalty p	aid to State	
Status Quo	\$40	n/a	\$2,963	(\$2 <i>,</i> 668)	(\$2,023)	(\$971)	(\$1,474)	\$2 <i>,</i> 089	(\$1,785)
Status Quo	\$60	n/a	\$2 <i>,</i> 892	\$1,685	(\$602)	\$4 <i>,</i> 886	\$433	\$7 <i>,</i> 404	\$286
Status Quo	\$80	n/a	\$2,823	\$6,256	\$925	\$10,947	\$2,458	\$12,587	\$2,181
Status Quo	Fall 2015 FC	n/a	\$2 <i>,</i> 858	\$4,278	\$255	\$8,331	\$1,572	\$10,371	\$1,370
Status Quo	\$80	Large	\$2,823	\$6,256	\$925	\$10,947	\$2,458	\$12,587	\$2,181
HB 247	\$40	n/a	\$131	\$878	\$230	\$2,351	\$735	(\$109)	(\$3,768)
HB 247	\$60	n/a	\$113	\$2,984	\$789	\$6,101	\$1,789	\$6,614	(\$896)
HB 247	\$80	n/a	\$108	\$6 , 588	\$1,799	\$11,257	\$3,319	\$12,385	\$1,379
HB 247	Fall 2015 FC	n/a	\$110	\$4,667	\$1,222	\$8,694	\$2,524	\$10,135	\$488
HB 247	\$80	Large	\$0	\$6 , 588	\$1,862	\$11,257	\$3,382	\$12,385	\$1,319

Cook Inlet / Middle Earth Gas Life Cycle Modeling Assumptions

- Production of 670 billion cubic feet (BCF) over 20 years
- New producer eligible for cash refunds
 - (Modeling also applies for an incumbent producer not eligible for cash refunds who can apply credits to other North Slope fields)
- Three prices modeled all in real uninflated dollars
 - \$4, \$6, and \$8 held static through life of field
- Two tax systems modeled
 - Status quo
 - HB247 elements:
 - Limit tax refunds to \$25 million per company per year
 - Repeal of Qualified Capital Expenditure and Well Lease Expenditure credits
 - 10-year limit on carry-forward of NOL credits
- Alternatives for Cook Inlet tax regime, with current tax cap of \$0.177/mcf expiring in 2022 or extended indefinitely
- For Middle Earth, includes tax cap of 4% of gross for first 7 years of production

Cook Inlet / Middle Earth Gas Life Cycle Modeling Assumptions

Gas field assumptions

Life of Field Peak gas Production Transport / mcf Royalty Rate Capex / mcf Opex / mcf Property Tax / mcf State Corp Income Tax Rate Fed Corp Income Tax Rate

20 years 140 million cubic feet / day \$0.50 / mcf 12.50%, state land \$1.32 / mcf (~\$8 / BOE) \$1.70 / mcf (~10 / BOE) ~\$0.21 / mcf (\$1.25 / BOE) 6.5% of PTV after Prod Tax 35% of PTV after SCIT

Cook Inlet Life Cycle Modeling Gas field Status Quo, 2022 Tax Caps expire, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	385
Production Tax Paid	123
Net Production Tax	-262
Production Tax NPV 6.15%	-264
Total Annual State Losses	332
Total Annual State Gains	456
Net State Gain (Loss)	124
State NPV 6.15%	-67
Total Producer Cash Out	222
Total Producer Cash In	399
Net Producer Cash Flow	177
Producer Cash NPV 6.15%	30

Cook Inlet Life Cycle Modeling Gas field Status Quo, 2022 Tax Caps expire, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	360
Production Tax Paid	465
Net Production Tax	105
Production Tax NPV 6.15%	-84
Total Annual State Losses	309
Total Annual State Gains	1,018
Net State Gain (Loss)	709
State NPV 6.15%	226
Total Producer Cash Out	204
Total Producer Cash In	867
Net Producer Cash Flow	663
Producer Cash NPV 6.15%	292

Cook Inlet Life Cycle Modeling Gas field Status Quo, 2022 Tax Caps expire, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	351
Production Tax Paid	813
Net Production Tax	462
Production Tax NPV 6.15%	89
Total Annual State Losses	287
Total Annual State Gains	1,572
Net State Gain (Loss)	1,285
State NPV 6.15%	512
Total Producer Cash Out	191
Total Producer Cash In	1,346
Net Producer Cash Flow	1,154
Producer Cash NPV 6.15%	554
	00

Cook Inlet Life Cycle Modeling

Gas field Status Quo, 2022 Tax Caps extended, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	404
Production Tax Paid	37
Net Production Tax	-367
Production Tax NPV 6.15%	-315
Total Annual State Losses	332
Total Annual State Gains	358
Net State Gain (Loss)	26
State NPV 6.15%	-114
Total Producer Cash Out	222
Total Producer Cash In	463
Net Producer Cash Flow	241
Producer Cash NPV 6.15%	60

Cook Inlet Life Cycle Modeling

Gas field Status Quo, 2022 Tax Caps extended, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	383
Production Tax Paid	47
Net Production Tax	-336
Production Tax NPV 6.15%	-297
Total Annual State Losses	309
Total Annual State Gains	606
Net State Gain (Loss)	297
State NPV 6.15%	27
Total Producer Cash Out	204
Total Producer Cash In	1,135
Net Producer Cash Flow	931
Producer Cash NPV 6.15%	421

Cook Inlet Life Cycle Modeling

Gas field Status Quo, 2022 Tax Caps extended, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	373
Production Tax Paid	47
Net Production Tax	-326
Production Tax NPV 6.15%	-290
Total Annual State Losses	287
Total Annual State Gains	835
Net State Gain (Loss)	548
State NPV 6.15%	158
Total Producer Cash Out	191
Total Producer Cash In	1,825
Net Producer Cash Flow	1,633
Producer Cash NPV 6.15%	784

Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps expire, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	136
Production Tax Paid	152
Net Production Tax	16
Production Tax NPV 6.15%	-35
Total Annual State Losses	72
Total Annual State Gains	456
Net State Gain (Loss)	384
State NPV 6.15%	154
Total Producer Cash Out	472
Total Producer Cash In	480
Net Producer Cash Flow	8
Producer Cash NPV 6.15%	-148

Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps expire, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	122
Production Tax Paid	505
Net Production Tax	383
Production Tax NPV 6.15%	143
Total Annual State Losses	59
Total Annual State Gains	1,028
Net State Gain (Loss)	969
State NPV 6.15%	442
Total Producer Cash Out	415
Total Producer Cash In	909
Net Producer Cash Flow	494
Producer Cash NPV 6.15%	132

Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps expire, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	113
Production Tax Paid	853
Net Production Tax	740
Production Tax NPV 6.15%	316
Total Annual State Losses	52
Total Annual State Gains	1,597
Net State Gain (Loss)	1,545
State NPV 6.15%	727
Total Producer Cash Out	382
Total Producer Cash In	1,367
Net Producer Cash Flow	985
Producer Cash NPV 6.15%	400

Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps extended, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	144
Production Tax Paid	55
Net Production Tax	-88
Production Tax NPV 6.15%	-86
Total Annual State Losses	72
Total Annual State Gains	358
Net State Gain (Loss)	286
State NPV 6.15%	106
Total Producer Cash Out	472
Total Producer Cash In	544
Net Producer Cash Flow	72
Producer Cash NPV 6.15%	-114
	35

Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps extended, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	122
Production Tax Paid	65
Net Production Tax	-58
Production Tax NPV 6.15%	-69
Total Annual State Losses	59
Total Annual State Gains	616
Net State Gain (Loss)	557
State NPV 6.15%	243
Total Producer Cash Out	415
Total Producer Cash In	1,176
Net Producer Cash Flow	762
Producer Cash NPV 6.15%	263
	2.4

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Cook Inlet Life Cycle Modeling Gas field HB247, 2022 Tax Caps extended, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	113
Production Tax Paid	65
Net Production Tax	-48
Production Tax NPV 6.15%	-63
Total Annual State Losses	52
Total Annual State Gains	860
Net State Gain (Loss)	809
State NPV 6.15%	373
Total Producer Cash Out	382
Total Producer Cash In	1,846
Net Producer Cash Flow	1,464
Producer Cash NPV 6.15%	630
	27

Middle Earth Life Cycle Modeling

Gas field Status Quo, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	404
Production Tax Paid	123
Net Production Tax	-281
Production Tax NPV 6.15%	-277
Total Annual State Losses	334
Total Annual State Gains	408
Net State Gain (Loss)	73
State NPV 6.15%	-95
Total Producer Cash Out	222
Total Producer Cash In	411
Net Producer Cash Flow	189
Producer Cash NPV 6.15%	37

Middle Earth Life Cycle Modeling

Gas field Status Quo, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	383
Production Tax Paid	376
Net Production Tax	-6
Production Tax NPV 6.15%	-154
Total Annual State Losses	312
Total Annual State Gains	884
Net State Gain (Loss)	573
State NPV 6.15%	144
Total Producer Cash Out	204
Total Producer Cash In	935
Net Producer Cash Flow	731
Producer Cash NPV 6.15%	334

Middle Earth Life Cycle Modeling Gas field Status Quo, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	373
Production Tax Paid	632
Net Production Tax	259
Production Tax NPV 6.15%	-37
Total Annual State Losses	289
Total Annual State Gains	1,353
Net State Gain (Loss)	1,063
State NPV 6.15%	377
Total Producer Cash Out	191
Total Producer Cash In	1,469
Net Producer Cash Flow	1,278
Producer Cash NPV 6.15%	630
	40

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Middle Earth Life Cycle Modeling Gas field HB247, \$4/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	144
Production Tax Paid	141
Net Production Tax	-3
Production Tax NPV 6.15%	-47
Total Annual State Losses	76
Total Annual State Gains	409
Net State Gain (Loss)	333
State NPV 6.15%	126
Total Producer Cash Out	472
Total Producer Cash In	492
Net Producer Cash Flow	20
Producer Cash NPV 6.15%	-139

Middle Earth Life Cycle Modeling Gas field HB247, \$6/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	122
Production Tax Paid	394
Net Production Tax	272
Production Tax NPV 6.15%	74
Total Annual State Losses	62
Total Annual State Gains	894
Net State Gain (Loss)	833
State NPV 6.15%	361
Total Producer Cash Out	415
Total Producer Cash In	976
Net Producer Cash Flow	562
Producer Cash NPV 6.15%	175

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Middle Earth Life Cycle Modeling Gas field HB247, \$8/mcf

Life Cycle Totals	\$Millions
Production Tax Credits Cashed	113
Production Tax Paid	650
Net Production Tax	537
Production Tax NPV 6.15%	190
Total Annual State Losses	53
Total Annual State Gains	1,376
Net State Gain (Loss)	1,323
State NPV 6.15%	592
Total Producer Cash Out	382
Total Producer Cash In	1,491
Net Producer Cash Flow	1,109
Producer Cash NPV 6.15%	476
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Summary Table – Cook Inlet and Middle Earth Gas Scenarios

					Net	Production				
					Production	Tax NPV	Net State	State NPV	Producer	Producer
		Tax Caps		Credits Paid	Tax Paid	6.15%	Gain (Loss)	6.15%	Cash Flow	NPV 6.15%
Geography	Tax Regime	Sunset?	Gas Price	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)	(\$millions)
Cook Inlet	Status Quo	yes	\$4.00	\$365	(\$262)	(\$264)	\$124	(\$67)	\$177	\$30
Cook Inlet	Status Quo	yes	\$6.00	\$360	\$105	(\$84)	\$709	\$226	\$663	\$292
Cook Inlet	Status Quo	yes	\$8.00	\$351	\$462	\$89	\$1,285	\$512	\$1,154	\$554
Cook Inlet	Status Quo	no	\$4.00	\$404	(\$367)	(\$315)	\$26	(\$114)	\$241	\$60
Cook Inlet	Status Quo	no	\$6.00	\$383	(\$336)	(\$297)	\$297	\$27	\$931	\$421
Cook Inlet	Status Quo	no	\$8.00	\$373	(\$326)	(\$290)	\$548	\$158	\$1,633	\$784
Cook Inlet	HB 247	yes	\$4.00	\$136	\$16	(\$35)	\$384	\$154	\$8	(\$148)
Cook Inlet	HB 247	yes	\$6.00	\$122	\$383	\$143	\$696	\$442	\$494	\$132
Cook Inlet	HB 247	yes	\$8.00	\$113	\$740	\$316	\$1,545	\$727	\$985	\$400
Cook Inlet	HB 247	no	\$4.00	\$144	(\$88)	(\$86)	\$286	\$106	\$72	(\$114)
Cook Inlet	HB 247	no	\$6.00	\$122	(\$58)	(\$69)	\$557	\$243	\$762	\$263
Cook Inlet	HB 247	no	\$8.00	\$113	(\$48)	(\$63)	\$809	\$373	\$1,464	\$630
Mid Earth	Status Quo	N/A	\$4.00	\$404	(\$281)	(\$277)	\$73	(\$95)	\$189	\$37
Mid Earth	Status Quo	N/A	\$6.00	\$383	(\$6)	(\$154)	\$573	\$144	\$731	\$334
Mid Earth	Status Quo	N/A	\$8.00	\$373	\$259	(\$37)	\$1,063	\$377	\$1,278	\$630
Mid Earth	HB 247	N/A	\$4.00	\$144	(\$3)	(\$47)	\$333	\$126	\$20	(\$139)
Mid Earth	HB 247	N/A	\$6.00	\$122	\$272	\$74	\$833	\$361	\$562	\$175
Mid Earth	HB 247	N/A	\$8.00	\$113	\$537	\$190	\$1,323	\$592	\$1,109	\$476