

November 9, 2016

### Encana Corporation (ECA) Raise NPV to US\$10 from US\$6

Symbol	ECA	Ebitda Next Twelve Months ending 9/30/17 (US\$mm)	1,140
Rating		North American Natural Gas/Ebitda (%)	42
Price (US\$/sh)	10.62	Natural Gas and Oil Production/Ebitda (%)	100
Pricing Date	11/9/16	Adjusted Reserves/Production NTM	5.9
Shares (mm)	973	EV/Ebitda	14.8
Market Capitalization (US\$mm)	10,300	PV/Ebitda	14.3
Debt (US\$mm)	6,600	Undeveloped Reserves (%)	33
Enterprise Value (EV) (US\$mm)	16,900	Natural Gas and Oil Ebitda (US\$/boe)	10.09
Present Value (PV) (US\$mm)	16,300	Present Value Proven Reserves(US\$/boe)	20.38
Net Present Value (US\$/share)	10	Ebitda Margin NTM (%)	47
Debt/Present Value	0.40	Earnings Next Twelve Months (US\$/sh)	0.05
McDep Ratio - EV/PV	1.04	Price/Earnings Next Twelve Months	211
Dividend Yield (%/year)	0.6	Indicated Annual Dividend (US\$/sh)	0.06
Note: Estimated cash flow and	earnings tied to on	e-year futures prices for oil and natural gas.	
Reported results may var	y widely from estin	mates. Estimated present value per share revised only infreq	uently.
Estimated present value	presumes a long-te	rm price for oil of US\$70 a barrel and natural gas, \$4.00 a m	illion btu
For historical analysis of	ECA since 2001 s	see www.mcdep.com/3eca.htm	

#### **Summary and Recommendation**

We raise estimated Net Present Value (NPV) for the stock of Encana Corporation (ECA) to US\$10 a share from US\$6 on results of reduced cost, lower debt and favorable drilling released on November 3 (see tables Operating and Financial Estimates and Present Value on page 2). Lower fixed costs for transportation and processing reduce the high operating leverage that caused us to reduce NPV at lower oil and gas price in early 2016, even though our long-term price expectation remains \$70 a barrel. Lower debt increases the odds that the company can survive an abnormally low oil price that may occur from time to time. Favorable drilling results in the Permian and the Canadian Montney give management the confidence to project ambitious 30% a year five year growth for those areas (see slide Permian and Montney on page 3). Those projections depend on the outlook for oil and gas price, which depends in part on the outlook for global growth. We like a scenario that has Mr. Trump, the new U.S. president, leading the US to higher growth. The rest of the world may grow better as well while sharing more of the cost. The US appears to bear a disproportionate cost in the form of military expenditures and a trade deficit that have supported unimpeded global transportation and the flourishing of international trade. Our optimistic scenario also has the combination of a higher growth rate and a moderately higher inflation rate exceeding the growth rate of government debt. At the same time, interest rates would remain below the rate of inflation thereby encouraging investment in the stocks of productive companies, including the stocks of oil and gas producers in our research coverage (see Tables 1-4 on pages 4-7).

Kurt H. Wulff, CFA



November 9, 2016

			Enc	ana Corp	oration					
	Nex	xt Twelve	Months	Operating	and Financ	cial Estin	ates			
										Next
										Twelve
	Q3	Year	Q2	Q3	Q4E	Year	QIE	Q2E	Q3E	Months
	9/30/15	2015	6/30/16	9/30/16	12/31/16	2016E	3/31/17	6/30/17	9/30/17	9/30/17
Volume										
Natural Gas (bcf)	142	597	129	122	117	506	110	107	104	437
Natural Gas (mmcfd)	1,547	1,635	1,418	1,326	1,273	1,383	1,222	1,173	1,126	1,199
Days	92	365	91	92	92	366	90	91	92	365
Oil (mmb)	12.9	48.6	12.0	10.8	10.4	45.1	10.2	10.0	9.8	40.4
Oil (mbd)	140	133	132	117	113	123	113	110	106	111
Total (bcf)	220	889	201	187	180	777	171	167	162	680
Total (mmcfed)	2,387	2,434	2,210	2,028	1,952	2,122	1,902	1,831	1,763	1,862
Price										
Henry Hub (US\$/mmbtu	2.76	2.67	1.95	2.81	2.83	2.42	2.95	2.91	2.97	2.92
Differential	0.16	(0.02)	0.60	0.66	0.67	0.59	0.70	0.69	0.30	0.59
EnCana (\$/mcf)	2.60	2.69	1.35	2.15	2.16	1.83	2.26	2.22	2.68	2.32
WTI Cushing (US\$/bbl)	46.39	48.79	45.66	44.91	46.00	42.51	45.28	47.00	48.09	46.59
Differential	11.87	12.99	11.99	9.60	9.83	10.54	11.23	11.66	11.93	11.17
EnCana (\$/bbl)	34.52	35.80	33.67	35.31	36.17	31.96	34.05	35.34	36.16	35.43
Total (\$/bbl)	22.26	22.60	17.26	20.66	21.04	18.31	20.87	21.24	23.32	21.59
Revenue (\$mm)										
Natural Gas	370	1,606	174	262	253	928	248	237	277	1,016
Oil	445	1,741	404	380	377	1,441	347	353	353	1,430
Total	815	3,347	579	642	630	2,370	595	590	630	2,446
Expense	576	2,301	440	391	344	1,675	328	319	311	1,303
Ebitda (\$mm)	238	1,046	139	251	286	695	267	271	319	1,143
Deprec., Deplet., & Amor		1,488	230	184	184	859	184	184	184	736
Hedging and other	(185)	(955)	(311)		(14)	(578)	(32)	(28)	20	(54)
Interest	105	614	107	99	99	408	99	99	99	396
Ebt	(34)	(101)	113	46	17	408	16	16	17	65
	~ /	· /	28	11	4		4	4	4	16
Income tax	(8)	(25)	28 85	34	13	1	12	12	13	49
Net Income (\$mm)	(25)	(76)				0.00				
Per share (\$)	(0.03)	(0.09)	0.10	0.04	0.01		0.01	0.01	0.01	0.05
Shares (millions)	843	822	850	858	973	883	973	973	973	973
Ebitda margin	29%	31%	24%	39%	45%	29%	45%	46%	51%	47%
Tax rate	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%

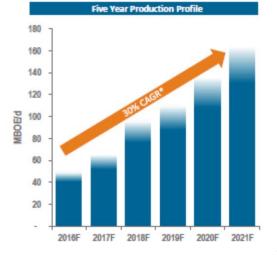
Encana Corporation									
Functional C	ash Flow a	nd Present V	/al ue						
	NTM	Adjusted	<i>PV</i> /	Present					
	<u>Ebitda</u>	<u>R/P</u>	<u>Ebitda</u>	Value					
North American Natural Gas	470	6.0	14.3	6,700	41%				
Oil	670	5.6	14.3	9,600	59%				
	1,140	5.9	14.3	16,300	100%				
Debt					6,600				
Net Present Value (\$mm)					9,700				
Shares					973				
Net Present Value - Standard Estimate (US\$/s			10						
NPV Approximation by Cash Flow Multiple D	e (US\$/sh)		10						



November 9, 2016

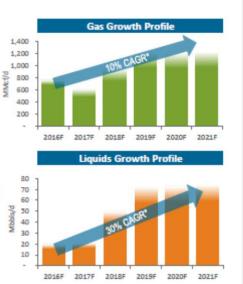
#### ENCANA PERMIAN 5 Year Growth Profile

- >50% of Encana's capital directed to the Permian
- Permian production expected to grow 3-4x
  5 year CAGR\* 30%
- · Quality inventory with scale
- · No infrastructure or midstream limitations
- Minimal vertical program



### ENCANA MONTNEY 5 Year Growth Profile

- · Development focused in condensate rich areas
- Operating margin<sup>∓</sup> increases by >200% by 2021
- Liquids production to >70 Mbbls/d by 2019
  - 50 Mbbls/d of liquids production in 2018
  - Liquid weighting grows to >25% of total production by 2021
    - ~70% condensate
- Liquids handling expansions support growth plans
- · Gas production to grow to 1.2 Bcf/d by 2019





November 9, 2016

				Ta	ble 1						
			Mcl	Dep En	ergy Stoc	eks					
Er	terpris	e '	Value, S	Segmen	ts, Yield a	and Mo	Dep R	atio			
						Prese	1t Value by	Soamo	1t (%)		
			Price			North	Rest of	i Segnier	(70)	Dist.	
			(US\$/sh)	EV/	Enterprise	Amer.	World			Yield	
Si	mbol/Rati	na	9-Nov	Market	Value	Natural		Oil	Down-	NTM	McDep
	mboi/Kuii	ng	2016	Сар	(\$mm)	Gas		Prod'n		(%)	Ratio
Global Integrated			2010	Cup	(\$mm)	Gus	Ous	11001	stream	(70)	Kano
Exxon Mobil Corporation	XOM		86.25	1.26	455,000	10	15	49	26	3.5	0.89
Chevron Corporation	CVX		107.64	1.20	272,000	3	13	64	20	4.0	0.89
Royal Dutch Shell	RDS-A	В		1.70	344,000	2	14	56	20	7.4	0.84
Total S.A.	TOT	B		1.55	177,000	2	18	57	24	5.7	0.73
Total or Median	101	D	47.37	1.33			19	57	24	4.9	0.63
				1.44	1,248,000			3/	24	4.9	0.79
Large Independent	FOC		02.42	1.1.4	50.400	12	1	06		0.7	1.00
EOG Resources, Inc.	EOG		93.43	1.14	58,400	13	1	86	10	0.7	1.09
Devon Energy Corporation	DVN		43.62	1.47	33,900	30	2	60	10	0.6	0.98
Occidental Petroleum Corp.	OXY	P	66.90	1.21	61,600	5	2	84	9	4.5	0.91
Marathon Oil Corporation	MRO	B		1.65	20,800	10	2	88		1.3	0.83
ConocoPhillips	COP	В	45.73	1.69	96,000	16	13	71		2.2	0.76
Total or Median				1.47	271,000	13		84		1.3	0.91
Small Independent											
Cimarex Energy Company	XEC		125.70	1.11	13,000	38		62		0.3	1.04
Continental Resources (32%)	CLR	В		1.39	7,800	29		71		-	0.88
California Resources	CRC		12.35	12.92	6,700	13		87		-	0.81
Whiting Petroleum Corporation	WLL		8.80	2.73	6,800	10		90		-	0.72
Range Resources	RRC	В	33.36	1.53	12,400	76		24		0.2	0.69
Total or Median				1.53	47,000	29		71		-	0.81
Income											
San Juan Basin Royalty Trust	SJT		5.77	1.00	270	100		-		8.9	0.72
Dorchester Minerals, L.P.	DMLP	В	15.35	1.00	470	28		72		6.9	0.64
Permian Basin RT	PBT		6.97	1.00	330	23		77		8.8	0.63
Sabine Royalty Trust	SBR	В	36.85	1.00	540	44		56		7.4	0.61
Cross Timbers Royalty Trust	CRT		17.06	1.00	100	71		29		7.6	0.59
Total or Median				1.00	1,700	44		56		7.6	0.63
Canada											
EnCana Corporation	ECA		10.62	1.64	16,900	41		59		0.6	1.03
Imperial Oil Limited (30%)	IMO		32.83	1.29	10,800	1		62	37	1.4	0.89
Cenovus Energy Inc.	CVE		14.39	1.33	16,000	10		81	9	1.0	0.77
Suncor Energy	SU	В		1.36	69,000	-		86	14	2.8	0.75
Birchcliff Energy Ltd.	BIREF	В		1.35	2,400	74		26		-	0.73
Total or Median				1.35	115,000			62		1.0	0.77
Estimated present value presume	s a long-tei	rm	price for o	il of US\$7	70 a barrel and	l natural ga	as, \$4.00 a	million	btu.		
Estimated present value capped b											
McDep Ratio = Market cap and $\mathbf{I}$	<b>,</b>			· ·	· · · · · ·	inesses					
For historical research see www.	mcdep.con	n		-							



November 9, 2016

		_	Table 2	~ -				
	Mc	Dep	Energy	Stocks				
Net	Preser	nt Va	lue and	<b>McDep</b>	Ratio			
				Ī				
			Price			Net		
			(US\$/sh)		Market	Present	Debt/	
	Symbol/R		9-Nov	Shares	Cap	Value	Present	McDe
	В	= Buy	2016	(mm)	(US\$mm)	(US\$/sh)	Value	Ratie
Global Integrated								
Exxon Mobil Corporation	XOM		86.25	4,178	360,000	100.00	0.19	0.89
Chevron Corporation	CVX		107.64	1,883	203,000	135.00	0.21	0.84
Royal Dutch Shell	RDS-A	В	50.88	3,987	203,000	80.00	0.31	0.75
Total S.A.	TOT	В	47.57	2,404	114,000	90.00	0.22	0.63
Total or Median					880,000		0.22	0.79
Large Independent								
EOG Resources, Inc.	EOG		93.43	548	51,200	85.00	0.13	1.09
Devon Energy Corporation	DVN		43.62	527	23,000	45.00	0.31	0.98
Occidental Petroleum Corp.	OXY		66.90	764	51,100	75.00	0.15	0.91
Marathon Oil Corporation	MRO	В	14.88	847	12,600	20.00	0.33	0.83
ConocoPhillips	COP	В	45.73	1,246	57,000	70.00	0.31	0.76
Total or Median					194,900		0.31	0.91
Small Independent								
Cimarex Energy Company	XEC		125.70	93	11,700	120.00	0.10	1.04
Continental Resources (32%)	CLR	В	47.20	118	5,600	56.00	0.25	0.88
California Resources	CRC		12.35	42	500	50.00	0.75	0.81
Whiting Petroleum Corporation	WLL		8.80	281	2,500	18.00	0.46	0.72
Range Resources	RRC	В	33.36	244	8,100	56.00	0.24	0.69
Total or Median					28,000		0.25	0.81
Income								
San Juan Basin Royalty Trust	SJT		5.77	47	270	8.00	-	0.72
Dorchester Minerals, L.P.	DMLP	В	15.35	31	470	24.00	-	0.64
Permian Basin RT	PBT		6.97	47	330	11.00	-	0.63
Sabine Royalty Trust	SBR	В	36.85	15	540	60.00	-	0.61
Cross Timbers Royalty Trust	CRT		17.06	6	100	29.00	-	0.59
Total or Median					1,700		-	0.63
Canada								
EnCana Corporation	ECA		10.62	973	10,300	10.00	0.40	1.03
Imperial Oil Limited (30%)	IMO		32.83	255	8,400	38.00	0.20	0.89
Cenovus Energy Inc.	CVE		14.39	833	12,000	20.00	0.19	0.77
Suncor Energy	SU	В	30.48	1,666	50,800	44.00	0.20	0.75
Birchcliff Energy Ltd.	BIREF	B	6.65	263	1,800	10.00	0.19	0.73
Total or Median					83,000		0.20	0.77
Estimated present value presumes a long-t	erm price	for oil	of US\$70 a	barrel and	natural gas. \$	4.00 a millio	on btu.	
Estimated present value capped by unlever								
McDep Ratio = $\mathbf{M}$ arket $\mathbf{c}$ ap and $\mathbf{D}\mathbf{e}$ bt to $\mathbf{p}$ r					nesses			
For historical research see www.mcdep.co			gan tur					

NPV Change Since October 26: Suncor \$35 to \$44, Whiting \$12 to \$18, Encana \$6 to \$10, EOG \$75 to \$85



November 9, 2016

		<b>D</b>	Table 3								
		-	Energy								
,	Value N	Ault	iples and	Dividen	ıd						
Ranked by EV/Ebitda											
			Price	Adjustd							
			(US\$/sh)	Resrvs/	PV/	<i>EV</i> /		Dividen			
S	ymbol/Ra	0	9-Nov	Prod	Ebitda	Ebitda	P/E	NTN			
	B =	Buy	2016	NTM	NTM	NTM	NTM	(\$/sh			
Global Integrated											
Exxon Mobil Corporation	XOM		86.25	15.0	13.3	11.8	30	3.00			
Chevron Corporation	CVX		107.64	9.8	12.8	10.8	48	4.32			
Royal Dutch Shell	RDS-A	B	50.88	9.5	10.3	7.7	22	3.76			
Total S.A.	TOT	B	47.57	9.9	11.1	7.0	15	2.72			
Median				9.8	12.0	9.2	26				
Large Independent											
Devon Energy Corporation	DVN		43.62	8.4	18.3	17.9		0.24			
EOG Resources, Inc.	EOG		93.43	7.6	14.6	15.8		0.67			
Marathon Oil Corporation	MRO	B	14.88	12.6	17.0	14.1		0.20			
Occidental Petroleum Corp.	OXY		66.90	8.9	15.0	13.6		3.04			
ConocoPhillips	COP	B	45.73	10.9	15.6	11.9		1.00			
Median				8.9	15.6	14.1					
Small Independent											
Cimarex Energy Company	XEC		125.70	7.0	15.4	16.0		0.32			
Continental Resources (32%)	CLR	В	47.20	11.4	17.8	15.7		-			
Range Resources	RRC	В	33.36	12.2	22.6	15.6		0.08			
California Resources	CRC		12.35	11.8	13.6	11.0		-			
Whiting Petroleum Corporation	WLL		8.80	9.3	13.9	10.1		-			
Median				11.4	15.4	15.6					
Income											
Sabine Royalty Trust	SBR	В	36.85	9.1	22.0	13.5	13	2.73			
Dorchester Minerals, L.P.	DMLP	В	15.35	7.4	20.4	13.1	19	1.06			
Cross Timbers Royalty Trust	CRT		17.06	8.1	20.3	11.9	13	1.29			
Permian Basin RT	PBT		6.97	8.5	16.9	10.7	11	0.61			
San Juan Basin Royalty Trust	SJT		5.77	10.4	14.8	10.7	11	0.52			
Median				8.5	20.3	11.9	13				
Canada											
EnCana Corporation	ECA		10.62	5.9	14.3	14.8		0.06			
Cenovus Energy Inc.	CVE		14.39	16.3	14.2	11.0		0.15			
Birchcliff Energy Ltd.	BIREF	В	6.65	12.9	14.4	10.5					
Imperial Oil Limited (30%)	IMO		32.83	32.1	11.1	9.9		0.45			
Suncor Energy	SU	В	30.48	20.7	12.9	9.8		0.43			
Median	20		50.10	16.3	14.2	10.5		0.07			
				10.0		10.0					
Grand Median				10	15	12					
EV = Enterprise Value = Market Cap and D			0								
and amortization; NTM = Next Twelve Mor											

Earnings; PV = Present Value of oil and gas and other businesses For historical research see www.mcdep.com



November 9, 2016

			Tab								
		Mc	Dep Ene	ergy Sto	ocks						
	Tota	l Re	eturn Ye	ar-to-D	ate 201	16					
	Ranke	d b	y Unleve	red To	tal Ret	urn					
			Price	Price			Equity	Un	levered		
			(\$/sh)	(\$/sh)	Price	Cash	Total		Total		
	Symbol/	Rati	9-Nov	31-Dec	0	Distrib.	Return		Return	McDep	
~			2016	2015	(%)	(%)	(%)	(\$/sh)	(%)	Ratic	
Global Integrated											
Chevron Corporation	CVX		107.64	89.96	20	4	23	37	17	0.84	
Exxon Mobil Corporation	XOM	-	86.25	77.95	11	3	14	23	10	0.89	
Royal Dutch Shell	RDS-A	В	50.88	45.79	11	6	17	35	10	0.75	
Total S.A.	TOT	В	47.57	44.95	6	5	10	26	7	0.63	
Median		$\square$			11		15		10	0.79	
Large Independent	FOC		00.40	70 70		-		10	20	1.0-	
EOG Resources, Inc.	EOG	$\left  \cdot \right $	93.43	70.79	32	1	33	13	28	1.09	
Devon Energy Corporation	DVN	-	43.62	32.00	36	1	37	21	23	0.98	
Marathon Oil Corporation	MRO	В	14.88	12.58	18	1	19	10	11	0.83	
Occidental Petroleum Corp.	OXY	-	66.90	67.61	(1)	3	2	14	2	0.91	
ConocoPhillips	COP	В	45.73	46.69	(2)	2	(0)	32	(0)	0.76	
Median					18		19		11	0.91	
Small Independent											
Continental Resources (32%)	CLR	В	47.20	22.98	105	-	105	18	59	0.88	
Cimarex Energy Company	XEC		125.70	89.38	41	0	41	14	35	1.04	
Range Resources	RRC	В	33.36	24.62	35	0	36	18	21	0.69	
Whiting Petroleum Corporation	WLL		8.80	9.44	(7)	-	(7)	15	(3)	0.72	
California Resources	CRC		12.35	23.30	(47)	-	(47)	148	(6)	0.81	
Median					35		36		21	0.81	
Income											
Dorchester Minerals, L.P.	DMLP	В	15.35	9.89	55	6	61	-	61	0.64	
Sabine Royalty Trust	SBR	В	36.85	26.26	40	6	46	-	46	0.61	
Permian Basin RT	PBT		6.97	5.06	38	6	43	-	43	0.63	
San Juan Basin Royalty Trust	SJT		5.77	4.14	39	4	43	-	43	0.72	
Cross Timbers Royalty Trust	CRT		17.06	13.01	31	7	38	-	38	0.59	
Median					39		43		43	0.63	
Canada											
Birchcliff Energy Ltd.	BIREF	В	6.65	2.93	127	-	127	2	71	0.73	
EnCana Corporation	ECA		10.62	5.09	109	1	110	7	47	1.03	
Suncor Energy	SU	В	30.48	25.80	18	3	21	11	15	0.75	
Cenovus Energy Inc.	CVE		14.39	12.62	14	1	15	5	11	0.77	
Imperial Oil Limited (30%)	IMO		32.83	32.52	1	1	2	9	2	0.89	
Median		$\square$			18		21		15	0.77	
Grand Median		$\left  \cdot \right $			25		28		19	0.77	
Natural Gas (\$/mmbtu)		$\left  \cdot \right $	2.70	2.33	16		20		19	0.77	
Oil -West Texas Intermediate (\$/bbl)					23						
S&P 500		$\left  \cdot \right $	45.46	37.06	6						
5&r 300			2,163	2,044	0						



November 9, 2016

**Disclaimer:** This analysis was prepared by Kurt Wulff, Manager of McDep LLC. The firm used sources and data believed to be reliable, but makes no representation as to their accuracy or completeness. This analysis is intended for informational purposes and is not a solicitation to buy or sell a security. Past performance is no guarantee of future results.

McDep or its employees may take positions in stocks the firm covers for research purposes. No trades in a subject stock shall be made within a week before or after a change in recommendation.

**Certification:** I, Kurt H. Wulff, certify that the views expressed in this research analysis accurately reflect my personal views about the subject securities and issuers. No part of my compensation was, is, or will be directly or indirectly related to the specific recommendations or views contained in this research analysis.

**Research Methodology/Ratings Description:** McDep LLC is an independent research originator focused on oil and gas stocks exclusively. The firm applies the forty years of experience of its analyst to estimate a present value of the oil and gas resources and other businesses of covered companies. That value is compared with a company's stock market capitalization and debt. Stocks with low market cap and debt relative to present value tend to outperform stocks with high market cap and debt relative to present value. Buy recommendations are expected to deliver a total return better than 7% per year above inflation. Hold recommendations are expected to deliver a total return less than inflation.