A Weekly Analysis of Energy Stocks Using the McDep Ratio June 6, 2006

Raise Long-Term Oil Price to \$60 a Barrel

Summary and Recommendation

Net present value (NPV) increases more than 20% for buy-recommended **Imperial Oil (IMO)**, **Suncor (SU)** and **Canadian Oil Sands Trust (COSWF)** as we raise long-term real price to \$60 a barrel from \$50 for light, sweet crude oil. NPV increases a median 9% for buy recommendations as we make no change in long-term natural gas price of \$10 a million btu and long-term refining margin of \$10 a barrel. Estimated present value of conventional oil production increases 20% in the U.S., Canada and Europe and 10% in most other countries where government take rises faster than oil price. We don't raise values in Russia at this time and we write off values in Venezuela and Ecuador. In a few cases we have adjusted value outside of oil production for recent performance. Six-year futures for oil of \$71 a barrel partly ratify our long-term oil price. We continue to see a trend to natural gas price at oil divided by five, but six-year futures have natural gas price at oil divided by more than eight. Thus, the long term may be a bit further away leaving our natural gas price for NPV estimates at oil divided by 6. Current one-year futures for refining crack at more than \$12 a barrel partly ratify our long-term margin estimate. McDep Ratios that range from 0.6 to 1.2 imply attractive investment potential.

Most Price Leverage in Oil Sands

The recent acquisition of Blackrock Ventures for more than US\$2 billion by the Royal Dutch Shell (RDS-A) affiliate, Shell Canada, put higher values on undeveloped underground oil sands. Though our new estimates will be refined with time, we add present value proportionately more than price for Canadian producers. The value of mineable oil sands also rises more than price, but less than underground, or *in situ*, oil sands.

Net Present Value Affected by Financial Leverage

Companies with similar changes in business value may have different percentage changes in NPV depending on each company's amount of debt. Yet debt levels are not high for oil producers compared to the increasing value of oil production. As a result the highest gainers in NPV tend to be those stocks concentrated on oil production in Canada, the U.S., China and Norway (see table Change in Net Present Value).

Present Value Approximated with Cash Flow Multiple

The mechanics of the analysis involve detailed projections of cash flow for the next twelve months taking into account historical results for the past few years for each stock. The Present Value cash flow multiple depends on reserve life in the same fashion as the discounted present value of future cash flow increases with the life of a project at a declining rate (see table <u>Present Value by Line of Business</u>). The multiples are generally consistent with a real discount rate of 7% a year applied to constant real price and costs.

Kurt H. Wulff, CFA

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Oil and Gas Producers Change in Net Present Value (NPV)

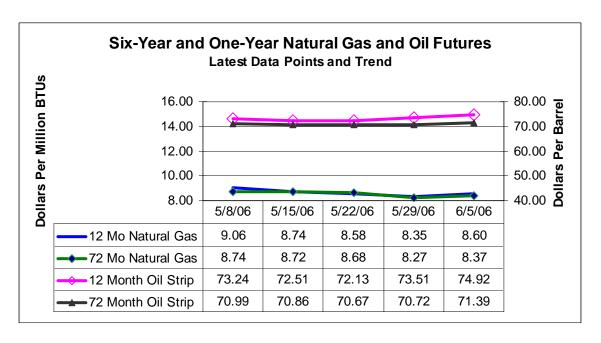
			Price	••		
			(\$/sh)		Present Va	
	Symbol/	atin a	5-Jun 2006	New (\$/ah)	Old	Change
Mega Cap	K	Rating	2000	(\$/sh)	(\$/sh)	(%)
Total S.A.	TOT	В	64.79	80.00	80.00	_
Gazprom (50%)	OGZPY	В	43.80	56.00	56.00	_
ConocoPhillips	COP	В	62.54	96.00	95.00	1
Chevron Corporation	CVX	В	59.35	88.00	85.00	4
BP plc	BP	В	70.82	80.00	77.00	4
Royal Dutch Shell plc	RDS-A	В	65.59	84.00	80.00	5
Exxon Mobil Corporation	XOM	В	60.05	78.00	74.00	5
Total or Median						4
Producer/Refiners - Large Cap and	d Mid Cap)				
Kinder Morgan, Inc.	KMI	S2	101.00	33.00	33.00	-
Lukoil Oil Company	LUKOY	В	80.00	110.00	110.00	-
Marathon Oil Corporation	MRO	В	77.00	86.00	75.00	15
Petro-Canada	PCZ	В	45.30	49.00	42.00	17
PetroChina Company Ltd (10%)	PTR	В	105.49	140.00	120.00	17
Norsk Hydro ASA	NHY	В	28.06	31.00	26.00	19
Imperial Oil Limited (30%)	IMO	В	36.68	37.00	30.00	23
Suncor Energy	SU	В	80.98	95.00	75.00	27
Total or Median						17
Independent Natural Gas and Oil	_	_	_			
XTO Energy Inc.	XTO	В	40.69	52.00	52.00	-
EOG Resources	EOG	В	62.92	92.00	90.00	2
Anadarko Petroleum Corp.	APC	В	49.09	86.00	80.00	8
Encana Corporation	ECA	В	50.58	55.00	51.00	8
Devon Energy Corporation	DVN	В	56.08	102.00	94.00	9
Occidental Petroleum Corp.	OXY	В	97.40	138.00	120.00	15
CNOOC Limited (29%)	CEO	В	74.73	98.00	84.00	17
Total or Median						8
Independent Natural Gas and Oil - Cimarex Energy Company	XEC	р В	39.16	68.00	64.00	6
Energy Partners Ltd.	EPL	В	20.33	32.00	29.00	10
Berry Petroleum Company	BRY	В	30.74	39.00	32.50	20
Encore Acquisition Company	EAC	В	25.91	54.00	45.00	20
Total or Median		Ь	23.71	34.00	43.00	15
Income						10
Kinder Morgan Energy Partners, L.P	. KMP	S 3	46.55	15.00	15.00	_
Kinder Morgan Management, LLC	KMR	S 3	43.36	15.00	15.00	_
San Juan Basin Royalty Trust	SJT	В	37.11	40.00	40.00	_
Pengrowth Energy Trust	PGH		23.49	20.00	18.00	11
Enerplus Resources Fund	ERF		56.20	47.00	42.00	12
Penn West Energy Trust (US\$)	PWTFF	В	39.99	39.00	33.00	18
Canadian Oil Sands Trust (US\$)	COSWF	В	31.41	35.00	27.20	29
Total or Median						11

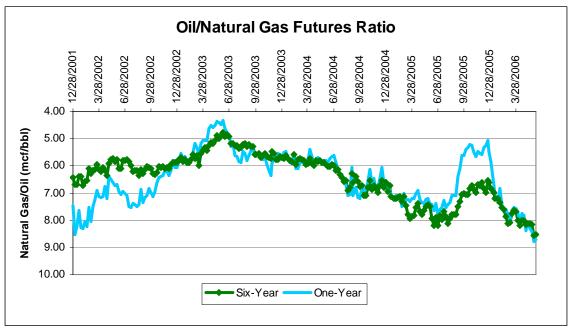
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Present Value by Line of Business

Mega Cap BP plc ConocoPhillips Chevron Corporation	BP COP CVX	North American Natural Gas (US\$mm) 23,000 34,000 14,000	Rest of World Natural Gas (US\$mm) 36,000 20,000 21,000	Oil Pro PV/ Ebitda 5.8 4.9 4.9	oduction PV (US\$mm) 158,000 99,000 127,000	Down PV/ Ebitda 6.5 6.3 6.0	nstream PV (US\$mm) 105,000 56,000 58,000	Total 322,000 209,000 220,000
Gazprom Royal Dutch Shell plc	OGZPY RDS-A	10,000	325,000 55,000	4.4	119,000	6.2	120,000	325,000 304,000
Total S.A.	TOT	10,000	59,000	4.9	91,000	7.3	65,000	215,000
Exxon Mobil Corporation	XOM	40,000	110,000	5.2	204,000	6.2	145,000	499,000
Total or Median		10,000	110,000	3.2	201,000	0.2	1 15,000	2,094,000
Producer/Refiners - Large Ca		id Cap						_,~~ .,~~~
Imperial Oil Limited	IMO	3,500		8.8	28,500	6.2	8,000	40,000
Lukoil Oil Company	LUKOY			6.6	69,700	4.0	23,400	93,100
Marathon Oil Corporation	MRO	4,600	2,500	4.2	14,500	4.6	17,000	38,600
Norsk Hydro ASA	NHY		11,500	4.7	17,400	4.9	16,400	45,300
Petro-Canada	PCZ	6,000	1,100	5.4	19,300	6.2	4,500	30,900
PetroChina Company Ltd	PTR		21,000	6.0	218,000	5.9	22,000	261,000
Suncor Energy	SU	1,500		8.5	43,000	6.8	2,700	47,200
Total or Median						556,100		
Independent Natural Gas and	l Oil - La	rge Cap an	d Mid Cap)				
Anadarko Petroleum Corp.	APC	25,000		5.3	19,300			44,300
CNOOC Limited	CEO		4,300	4.1	36,000			40,300
Devon Energy Corporation	DVN	31,500		5.6	20,200			51,700
Encana Corporation	ECA	44,000		5.6	10,800			54,800
Occidental Petroleum Corp.	OXY	9,000	900	5.8	50,600	5.0	6,200	66,700
EOG Resources	EOG	18,300	1,800	4.1	3,300			23,400
XTO Energy Inc.	XTO	19,000		4.0	3,800			22,800
Total or Median								304,000
Independent Natural Gas and		-						
Berry Petroleum Company	BRY	300		6.6	1,820			2,120
Encore Acquisition Company	EAC	900		8.4	2,970			3,870
Energy Partners Ltd.	EPL	850		5.0	750			1,600
Cimarex Energy Company	XEC	4,300		5.5	2,030			6,330
Total or Median								13,920
Income Canadian Oil Sands Trust (US\$	COCWE			10.9	18,000			18,000
Enerplus Resources Fund	ERF	3,100		6.8	3,390			6,490
Pengrowth Energy Trust	PGH	1,600		5.9	2,180			3,780
Penn West Energy Trust (US\$)		3,300		7.7	7,500			10,800
San Juan Basin Royalty Trust	SJT	1,860		1.1	7,500			1,860
Total or Median		1,000						40,930
Total of Median								1 0,230

A Weekly Analysis of Energy Stocks Using the McDep Ratio June 6, 2006





A Weekly Analysis of Energy Stocks Using the McDep Ratio June 6, 2006

Oil and Gas Producers Rank by McDep Ratio: Market Cap and Debt to Present Value

			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbol/		5- J un	Shares	Cap	Value	Present	McDep
	-	ating	2006	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Mega Cap	-		2000	(11111)	(4.11.11)	(4,511)	,	110000
BP plc	BP	В	70.82	3,420	242,000	80.00	0.15	0.90
Total S.A.	TOT	В	64.79	2,336	151,000	80.00	0.13	0.83
Royal Dutch Shell plc	RDS-A	В	65.59	3,268	214,000	84.00	0.10	0.80
Gazprom (50%)	OGZPY	В	43.80	2,833	124,100	56.00	0.02	0.79
Exxon Mobil Corporation	XOM	В	60.05	6,126	368,000	78.00	0.04	0.78
ConocoPhillips	COP	В	62.54	1,693	106,000	96.00	0.22	0.73
Chevron Corporation	CVX	В	59.35	2,224	132,000	88.00	0.11	0.71
Total or Median				,	1,337,000		0.11	0.79
Producer/Refiners - Large Cap and	Mid Cap)						
Kinder Morgan, Inc.	KMI	S2	101.00	135	13,640	33.00	0.75	1.51
Imperial Oil Limited (30%)	IMO	В	36.68	299	10,970	37.00	0.08	0.99
Petro-Canada	PCZ	В	45.30	520	23,560	49.00	0.18	0.94
Norsk Hydro ASA	NHY	В	28.06	1,251	35,090	31.00	0.14	0.92
Marathon Oil Corporation	MRO	В	77.00	367	28,260	86.00	0.18	0.91
Suncor Energy	SU	В	80.98	461	37,340	95.00	0.07	0.86
PetroChina Company Ltd (10%)	PTR	В	105.49	178	18,760	140.00	0.05	0.77
Lukoil Oil Company	LUKOY	В	80.00	830	66,000	110.00	0.02	0.73
Total or Median					234,000		0.11	0.92
Independent Natural Gas and Oil -	Large Ca	p and	Mid Cap					
Encana Corporation	ECA	В	50.58	865	43,800	55.00	0.13	0.93
XTO Energy Inc.	XTO	В	40.69	370	15,060	52.00	0.16	0.82
CNOOC Limited (29%)	CEO	В	74.73	119	8,910	98.00	-	0.76
Occidental Petroleum Corp.	OXY	В	97.40	431	42,000	138.00	0.11	0.74
EOG Resources	EOG	В	62.92	246	15,500	92.00	0.03	0.69
Anadarko Petroleum Corp.	APC	В	49.09	464	22,800	86.00	0.10	0.61
Devon Energy Corporation	DVN	В	56.08	449	25,200	102.00	0.11	0.60
Total or Median					173,000		0.11	0.74
Independent Natural Gas and Oil -	Small Ca	р						
Berry Petroleum Company	BRY	В	30.74	45	1,380	39.00	0.17	0.82
Energy Partners Ltd.	EPL	В	20.33	40	820	32.00	0.19	0.71
Cimarex Energy Company	XEC	В	39.16	85	3,330	68.00	0.08	0.61
Encore Acquisition Company	EAC	В	25.91	54	1,390	54.00	0.25	0.61
Total or Median					6,900		0.18	0.66
Income								
Kinder Morgan Energy Partners, L.P.	KMP	S3	46.55	166	7,730	15.00	0.56	1.93
Kinder Morgan Management, LLC	KMR	S 3	43.36	58	2,510	15.00	0.56	1.84
Enerplus Resources Fund	ERF		56.20	123	6,920	47.00	0.11	1.18
Pengrowth Energy Trust	PGH		23.49	161	3,780	20.00	0.15	1.15
Penn West Energy Trust (US\$)	PWTFF	В	39.99	244	9,750	39.00	0.12	1.02
San Juan Basin Royalty Trust	SJT	В	37.11	47	1,730	40.00	-	0.93
Canadian Oil Sands Trust (US\$)	COSWF	В	31.41	464	14,580	35.00	0.10	0.91
Total or Median					47,000		0.12	1.15

 $B = Buy, \ S2 = Short \ half \ unlevered \ position, \ S3 = Short \ quarter \ unlevered \ position, \ H = Hold \ McDep \ Ratio = Market \ cap \ and \ Debt \ to \ present \ value \ of \ oil \ and \ gas \ and \ other \ businesses$

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Oil and Gas Producers Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

			Price (\$/sh)	Adjstd Resrvs/	PV/	EV/		Divd or Distrib
	Symbol/		5-Jun	Prod	Ebitda	Ebitda	P/E	NTM
	Ra	iting	2006	NTM	NTM	NTM	NTM	(%)
Mega Cap								
Gazprom (50%)	OGZPY	В	43.80	20.0	9.2	7.3	12	0.5
BP plc	BP	В	70.82	9.3	6.2	5.6	9	3.2
Exxon Mobil Corporation	XOM	В	60.05	11.4	6.3	4.9	8	2.1
Total S.A.	TOT	В	64.79	9.4	5.8	4.8	8	3.2
Royal Dutch Shell plc	RDS-A	В	65.59	7.3	5.4	4.3	8	3.9
ConocoPhillips	COP	В	62.54	12.1	5.7	4.1	6	2.3
Chevron Corporation	CVX	В	59.35	11.0	5.3	3.8	6	3.5
Median	-			11.0	5.8	4.8	8	3.2
Producer/Refiners - Large Cap and M	_							
Kinder Morgan, Inc.	KMI	S2	101.00		8.6	13.0	20	3.5
Imperial Oil Limited (30%)	IMO	В	36.68	9.4	7.7	7.7	13	2.4
Suncor Energy	SU	В	80.98	18.2	8.3	7.2	13	0.3
Petro-Canada	PCZ	В	45.30	6.9	5.6	5.3	10	0.8
Norsk Hydro ASA	NHY	В	28.06	7.8	5.3	4.8	11	13.0
PetroChina Company Ltd (10%)	PTR	В	105.49	14.8	6.2	4.7	9	4.0
Marathon Oil Corporation	MRO	В	77.00	8.3	4.6	4.2	7	1.7
Lukoil Oil Company	LUKOY	В	80.00	19.0	5.7	4.2	6	1.5
Median	ı			9.4	5.9	5.1	10	2.0
Independent Natural Gas and Oil - La	rge Cap a	nd M	id Cap					
XTO Energy Inc.	XTO	В	40.69	12.1	7.4	6.0	11	0.5
Encana Corporation	ECA	В	50.58	8.6	6.0	5.6	12	0.8
EOG Resources	EOG	В	62.92	9.6	6.7	4.7	10	0.4
Occidental Petroleum Corp.	OXY	В	97.40	10.4	5.8	4.3	7	1.5
Anadarko Petroleum Corp.	APC	В	49.09	12.4	6.9	4.3	7	1.5
Devon Energy Corporation	DVN	В	56.08	8.6	6.1	3.7	7	0.8
CNOOC Limited (29%)	CEO	В	74.73	10.0	4.4	3.4	6	3.4
Median	ı			10.0	6.1	4.3	7	0.8
Independent Natural Gas and Oil - Sn	nall Cap							
Berry Petroleum Company	BRY	В	30.74	10.5	6.7	5.5	17	2.0
Encore Acquisition Company	EAC	В	25.91	14.4	8.1	4.9	9	-
Cimarex Energy Company	XEC	В	39.16	7.2	5.7	3.5	7	0.4
Energy Partners Ltd.	EPL	В	20.33	5.0	3.9	2.8	11	-
Median	ı			8.9	6.2	4.2	10	0.2
Income								
Kinder Morgan Energy Partners, L.P.	KMP	S 3	46.55		8.3	16.0	28	7.0
Kinder Morgan Management, LLC	KMR	S 3	43.36		8.3	15.2	26	7.5
San Juan Basin Royalty Trust	SJT	В	37.11	13.5	10.7	9.9	11	8.9
Canadian Oil Sands Trust (US\$)	COSWF	В	31.41	25.1	10.9	9.9	13	6.0
Enerplus Resources Fund	ERF		56.20	9.4	7.0	8.3	16	8.1
Pengrowth Energy Trust	PGH		23.49	7.5	6.5	7.4	13	11.5
Penn West Energy Trust (US\$)	PWTFF	В	39.99	7.9	6.8	6.9	10	9.2
Median	ı			9.4	8.3	9.9	13	8.1

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended June 30, 2007; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses

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Index of Recent Research

Stock rucas						
<u>Date</u>		<u>Symbol</u>	<u>Stock</u>	<u>Theme</u>		
30-May		KMx	Kinder Morgan	Buyout Bailout		
29-May		COSWF	Canadian Oil Sands Trust	Minimal Startup Delay Assessed		
26-May		EPL	Energy Partners, Ltd.	Offers to Buy Stone Energy		
24-May		LUKOY	Lukoil Oil Company	Oil for Russia, Natural Gas for Export		
19-May		COSWF	Canadian Oil Sands Trust	Expansion Startup Caution		
18-May		OGZPF	Gazprom	Shtokman Delayed		
16-May		OXY	Occidental Petroleum Corporation	Ecuador Expropriates		
10-May		PWTFF	Penn West Energy Trust	Sleeping Seal		
10-May		EPL	Energy Partners, Ltd.	Back on Track		
10-May		BRY	Berry Petroleum	Debt for the Future		
8-May		XEC	Cimarex Energy Company	Seasonality Exxagerated		
8-May		EOG	EOG Resources Inc.	Seasonality Exxagerated		
5-May	*	SU	Suncor Energy Inc.	Retaking the Oil Sands Lead		
5-May	*	RDSA	Royal Dutch Shell plc	Tighter Markets and Cost Pressures		
5-May	*	TOT	Total S.A.	Spinoff and Split Ahead		
3-May	*	EAC	Encore Acquisition Company	Lower NPV to \$45 a Share		
3-May	*	DVN	Devon Energy Corporation	Barnett Bargain		
3-May	*	IMO	Imperial Oil Limited	Oil Sands and Arctic Natural Gas		
1-May	*	CVX	Chevron Corporation	India Opportunity, Venezuela Risk		
28-Apr	*	APC	Anadarko Petroleum Corporation	Large Cap Resource Target		
28-Apr	*	MRO	Marathon Oil Corporation	Oil Sands Link		
28-Apr	*	XOM	Exxon Mobil Corporation	Low Risk, High Return		
28-Apr	*	NHY	Norsk Hydro ASA	Earnings Blowout		
27-Apr	*	COP	ConocoPhillips	Strong Cash Flow and Value		
27-Apr	*	ECA	EnCana Corporation	Natural Gas at Present Value		
26-Apr	*	PCZ	Petro-Canada	Understated Oil Sands		
26-Apr	*	BP	BP p.l.c.	Understated Russian Resource		
26-Apr	*	CEO	CNOOC Ltd	Burst of Cash Flow		
21-Apr	*	XTO	XTO Energy Inc.	Distributing Royalty Trust Units		
21-Mar	*	PTR	PetroChina Company Limited	Growing Pains		
20-Mar	*	SJT	San Juan Basin Royalty Trust	Upgrade to Buy		

Meter Reader - A Weekly Analysis

6-Jun	Raise Long-Term Oil Price to \$60 a Barrel
30-May *	Downstream Design
23-May *	Caracas USA
16-May *	Natural Gas for Transportation

Natural Gas and Oil Royalty Trusts - A Weekly Analysis

2-Jun		Raise Long-Term Oil Price to \$60 a Barrel
26-May	*	Roll Forward
19-May	*	Buy Low
12-May	*	Hugoton Handover

Industry Ideas

15-Feb * Presentation Slides Russian Natural Gas, Canadian Tar Sands

^{*} Archived on www.mcdep.com