A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

Back Up the Truck

Summary and Recommendation

The last week of October looks like a good time to load up the truck, figuratively speaking, with buy-recommended oil and gas stocks. Investors have lost confidence as usual at this time of year resulting in lower stock price. Yet the outlook for economic growth and energy profits remains positive, in our opinion. Low McDep Ratio buy recommendations include mega cap **Royal Dutch Shell (RDS-A)**; producer/refiner **ConocoPhillips (COP)**; and natural gas producers **Encana (ECA)** and **XTO Energy (XTO)**. On an historic aside, investors can breathe easier knowing that the marshals finally arrested Wild West outlaw, Oscar Wyatt.

Commodity Price and Present Value Support Investment

Crude oil quotes are well above the \$50 a barrel used in estimating present value, the denominator of the McDep Ratio(see table <u>Oil and Gas Commodity and Stock Price</u>). One-year natural gas is above our long-term estimate while six-year natural gas commodity price has extra appreciation potential. Refining margin is more than 20% above our long-term estimate.

	<u>Units</u>		s Price <u>One-Year</u>	McDep Ratio <u>Denominator</u>
Crude Oil	\$/barrel	57.67	60.86	50
Natural Gas	\$/million btu	8.59	11.60	10
Oil Refining	\$/barrel		12.89	10
				Median
	<u>Stocks</u>			<u>McDep Ratio</u>
	Mega Cap			0.78
	Producer/Refin	0.80		
	Independent - 1	0.76		

0.71

1.06

Oil and Gas Commodity and Stock Price Monday, October 24, 2005

Source: McDep Associates, Bloomberg, New York Mercantile Exchange, Yahoo and company disclosures

Independent - Small

Income

The McDep Ratio compares present value calculated from commodity price with enterprise value as determined in the stock market. A stock with a McDep Ratio of 1.0 presumably offers a 7% per year unlevered real return on constant real prices for oil of \$50 a barrel, natural gas of \$10 a million btu and refining crack of \$10 a barrel. Four of the five groups have median McDep Ratios below 1.0.

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

Thus while current commodity prices suggest our estimates of present value could be higher, current stock prices are less than the values we calculate. As a result, thriving commodity prices and low McDep Ratios make a positive case for investing in buy-recommended stocks.

ExxonMobil (XOM) Stock below 200-Day Average

For several trading days XOM has been below its 200-day average of about \$58.50 a share. That could be a sign that the stock price trend has changed from up to down. The indication of trend change is likely to be temporary as broader commodity and stock price trends remain up. Oil, natural gas and refining margin are above the 40-week averages. Stock prices for most buy-recommendations are above the 200-day average.

Select Stocks on Valuation and Strategic Considerations

Stocks are ranked in descending order of McDep Ratio to suggest "buy low and sell high" (see table <u>Rank by McDep Ratio</u>). We recommend representation in each of the five groups from Mega Cap to Income with emphasis on low McDep Ratio stocks.

Next Twelve Months Cash Flow, Ebitda, changes weekly with futures prices for natural gas and oil (see table <u>Rank by EV/Ebitda</u>). We regularly check the correlation of present value with cash flow multiple by business and expected life of production.

Investors can diversify political risk by owning stocks of companies headquartered in other countries (see table <u>Home Country and Business Segments</u>). Russian stocks offer potential resource value beyond that reflected in the McDep Ratio.

Finally, we recommend balance among business segments. Investors should be sure to be represented in the stocks of companies with strong natural gas concentration. Nor should that be at the expense of reasonable downstream exposure in other stocks.

Timely analyses are available on all recommended stocks (see table Index of Recent Research).

Wild West Outlaw

In our mind, the misrepresentations of sell-recommended **Kinder Morgan (KMI, KMP, KMR)** have a parallel in the career of Oscar Wyatt whom the marshals finally arrested on October 21. Some forty years ago Mr. Wyatt promised natural gas that he didn't have to the citizens of San Antonio, Texas. Mr. Wyatt then used his falsely inflated stock price to acquire an asset-rich legitimate natural gas pipeline company in Denver. The selling stockholders who took Mr. Wyatt's shares in exchange lost most of their value in months when Mr. Wyatt's Texas pipeline ran dry. Many years later it was poetic justice when Mr. Wyatt took El Paso shares in exchange for assets only to see them lose most of their value in months. Investors in Canada's Terasen, now being offered KMI stock, run the same risk in exchanging for stock in KMI, falsely inflated, we believe, with overstated earnings and understated debt.

Kurt H. Wulff, CFA

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

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

			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbol/		24-Oct	Shares	Cap	Value	Present	McDep
	K	lating	2005	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Mega Cap	DD	Ð	6 A 6 -	2 5 4 5	220.000	00.00	0.10	0.01
BP plc	BP	В	64.65	3,545	229,000	82.00	0.10	0.81
Total S.A.	TOT	В	124.10	1,182	147,000	160.00	0.12	0.80
Exxon Mobil Corporation	XOM	В	56.85	6,370	362,000	74.00	0.04	0.78
Royal Dutch Shell plc	RDS-A CVX	B B	59.30	3,372	200,000	84.00	0.09	0.73 0.68
Chevron Corporation Total or Median		в	57.83	2,256	131,000	90.00	0.12 0.10	0.68 0.78
Producer/Refiners - Large Cap and					1,069,000		0.10	0.78
Kinder Morgan, Inc.	KMI Cap	S2	89.95	123	11,060	20.00	0.76	1.85
Imperial Oil Limited (30%)	IMO	B	87.70	102	8,960	84.00	0.10	1.04
Marathon Oil Corporation	MRO	B	59.60	367	21,870	65.00	0.10	0.94
Petro-Canada	PCZ	B	34.79	526	18,300	42.00	0.19	0.86
Lukoil Oil Company	LUKOY	B	53.25	830	44,000	65.00	0.03	0.82
Norsk Hydro ASA	NHY	B	97.02	251	24,350	130.00	0.12	0.78
Suncor Energy	SU	B	50.93	461	23,480	68.00	0.12	0.77
Gazprom (50%)	OGZPF	B	59.80	1,022	61,100	90.00	0.03	0.68
ConocoPhillips	COP	В	60.33	1,419	85,600	100.00	0.15	0.66
PetroChina Company Ltd (10%)	PTR	В	74.79	176	13,150	120.00	0.01	0.63
Total or Median					312,000		0.11	0.80
Independent Natural Gas and Oil -	Large Ca	p and]	Mid Cap					
Encana Corporation	ECĂ	в	50.60	892	45,100	51.00	0.16	0.99
XTO Energy Inc.	XTO	В	41.55	370	15,370	48.00	0.20	0.89
Burlington Resources	BR	В	69.03	385	26,600	86.00	0.09	0.82
CNOOC Limited (29%)	CEO	В	63.58	119	7,580	84.00	0.01	0.76
Devon Energy Corporation	DVN	В	60.30	471	28,400	86.00	0.15	0.75
Anadarko Petroleum Corp.	APC	В	89.81	238	21,400	140.00	0.11	0.68
Occidental Petroleum Corp.	OXY	В	73.61	406	29,900	120.00	0.11	0.66
Total or Median					174,000		0.11	0.76
Independent Natural Gas and Oil -		р						
Berry Petroleum Company	BRY	В	55.24	23	1,240	65.00	0.10	0.86
Encore Acquisition Company	EAC	В	32.70	49	1,620	50.00	0.17	0.72
Energy Partners Ltd.	EPL	В	24.76	41	1,000	38.00	0.17	0.71
Cimarex Energy Company	XEC	В	38.90	85	3,310	64.00	0.12	0.66
Total or Median					7,200		0.15	0.71
Income		G2	52.20	1.50	0.400	15.00	0.55	
Kinder Morgan Energy Partners, L.P.		S3	53.38	159	8,490	15.00	0.55	2.14
Kinder Morgan Management, LLC	KMR	S3	48.97	57	2,770	15.00	0.55	2.01
Pengrowth Energy Trust	PGH		21.50	157	3,370	20.00	0.17	1.06
San Juan Basin Royalty Trust	SJT		42.16	47	1,970	40.00	-	1.06
Enerplus Resources Fund	ERF	р	41.32	105	4,330	42.00	0.13	0.99
Penn West Energy Trust	PWTFF	B B	26.60	174 93	4,620	28.00	0.16	0.96
Canadian Oil Sands Trust (US\$)	COSWF	в	91.50	93	8,500	136.00	0.12	0.71
Total or Median					34,100		0.16	1.06

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

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

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/		24-Oct	Prod	Ebitda	Ebitda	P/E	NTM
N. C	Ra	ting	2005	NTM	NTM	NTM	NTM	(%)
Mega Cap	חח	р	() (5	0.4	(7	5 1	0	2.2
BP plc Exxon Mobil Corporation	BP XOM	B B	64.65 56.85	9.4 11.5	6.7 6.9	5.4 5.4	9 9	3.3 2.0
Total S.A.	TOT	B	124.10	9.2	6.2	5.4 5.0	8	2.0
Royal Dutch Shell plc	RDS-A	B	59.30	7.2	5.6	4.1	8	3.7
Chevron Corporation	CVX	B	57.83	9.3	6.0	4.1	7	3.1
Media	1			9.3	6.2	5.0	8	3.1
Producer/Refiners - Large Cap and M	Iid Cap							
Kinder Morgan, Inc.	KMI	S2	89.95		7.5	13.9	19	3.3
Gazprom (50%)	OGZPF	В	59.80	22.0	12.9	8.7	17	0.6
Suncor Energy	SU	В	50.93	18.1	9.3	7.2	14	0.4
Imperial Oil Limited (30%)	IMO	В	87.70	11.5	6.9	7.2	12	0.9
Petro-Canada	PCZ	В	34.79	5.9	5.1	4.4	8	2.0
Marathon Oil Corporation	MRO	В	59.60	7.1	4.5	4.3	6	1.9
Norsk Hydro ASA	NHY LUKOY	B B	97.02 53.25	8.2 19.8	5.5 4.8	4.2 4.0	9 6	3.2 1.8
Lukoil Oil Company ConocoPhillips	COP	Б В	60.33	19.8	4.8 5.9	4.0 3.9	6	2.1
PetroChina Company Ltd (10%)	PTR	B	74.79	13.9	6.1	3.9	8	5.0
Media		D	/ 4. /)	11.5	6.0	<i>4.3</i>	8	1.9
Independent Natural Gas and Oil - La		nd Mi	id Cap	11.0	0.0	1.5	0	1.9
XTO Energy Inc.	XTO	В	41.55	10.8	5.7	5.1	9	0.5
Encana Corporation	ECA	В	50.60	7.1	4.3	4.3	8	1.2
CNOOC Limited (29%)	CEO	В	63.58	9.4	5.3	4.0	7	3.7
Anadarko Petroleum Corp.	APC	В	89.81	12.5	5.8	4.0	7	0.8
Burlington Resources	BR	В	69.03	9.9	4.8	4.0	8	0.6
Occidental Petroleum Corp.	OXY	В	73.61	11.3	6.0	3.9	6	2.0
Devon Energy Corporation	DVN	В	60.30	7.3	4.0	3.0	6	0.5
Median	•			9.9	5.3	4.0	7	0.8
Independent Natural Gas and Oil - Sr Berry Petroleum Company	nan Cap BRY	в	55.24	11.0	5.7	4.9	13	1.1
Encore Acquisition Company	EAC	Б В	33.24	14.7	6.8	4.9	13	1.1 -
Cimarex Energy Company	XEC	B	38.90	7.7	4.2	2.7	6	-
Energy Partners Ltd.	EPL	B	24.76	5.1	3.2	2.3	5	-
Media		2		9.3	4.9	3.8	8	-
Income								
Kinder Morgan Energy Partners, L.P.	KMP	S3	53.38		7.9	16.9	24	5.9
Kinder Morgan Management, LLC	KMR	S3	48.97		7.9	15.9	22	6.5
San Juan Basin Royalty Trust	SJT		42.16	12.2	8.3	8.7	9	10.7
Canadian Oil Sands Trust (US\$)	COSWF	В	91.50	20.0	11.1	7.9	9	1.9
Pengrowth Energy Trust	PGH		21.50	7.6	5.4	5.8	8	10.9
Enerplus Resources Fund	ERF	Ð	41.32	9.8	5.4	5.3	8	10.3
Penn West Energy Trust	PWTFF	В	26.60	8.0	4.4	4.2	6	11.8
Media	1			9.8	7.9	7.9	9	10.3

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciationand amortization; NTM = Next Twelve Months Ended September 30, 2006; P/E = Stock Price toEarnings; PV = Present Value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

Oil and Gas Producers Home Country and Business Segments

				North	Rest			
				Amer.	of World			Total
			Non-	Natural	Natural	Oil	Down-	Present
	Symbol/		U.S.	Gas	Gas	Prod'n	stream	Value
	Ra	ting	Domicile	(%)	(%)	(%)	(%)	(US\$mm)
Mega Cap		-				• •		
Exxon Mobil Corporation	XOM	В		10	19	39	33	492,000
BP plc	BP	В	UK	10	12	44	34	324,000
Royal Dutch Shell plc	RDS-A	В	UK	4	19	33	45	313,000
Chevron Corporation	CVX	В	-	9	9	54	28	230,000
Total S.A.	TOT	В	France	-	27	38	35	215,000
Total or Me				9	19	39	34	1,574,000
Producer/Refiners - Large Cap an	-	P	G1 ·		0		•	212 000
PetroChina Company Ltd.	PTR	В	China	-	9	71	20	213,000
Gazprom	OGZPF	В	Russia		100			190,000
ConocoPhillips	COP	В		13	7	45	35	166,900
Lukoil Oil Company	LUKOY	В	Russia	-	-	62	38	55,700
Norsk Hydro ASA	NHY	В	Norway	-	27	38	35	37,200
Suncor Energy	SU	В	Canada	5	-	89	7	34,900
Marathon Oil Corporation	MRO	В		14	8	33	46	32,900
Imperial Oil Limited	IMO	В	Canada	13	-	62	25	31,800
Petro-Canada	PCZ	В	Canada	23	4	53	20	27,200
	dian			9	7	58	30	790,000
Independent Natural Gas and Oil	•••		lid Cap					
Occidental Petroleum Corp.	OXY	В		15	1	73	11	54,900
Encana Corporation	ECA	В	Canada	84	-	16	-	54,500
Devon Energy Corporation	DVN	В		62	-	38	-	47,500
Anadarko Petroleum Corp.	APC	В		60	-	40	-	37,500
Burlington Resources	BR	В		69	5	26	-	36,300
CNOOC Limited	CEO	В	China	-	12	88	-	34,800
XTO Energy Inc.	XTO	В		83	-	17	-	22,100
	dian			62	-	38	-	288,000
Independent Natural Gas and Oil	- Small Cap							
Cimarex Energy Company	XEC	В		70	-	30	-	6,140
Encore Acquisition Company	EAC	В		27	-	73	-	2,990
Berry Petroleum Company	BRY	В		16	-	84	-	1,920
Energy Partners Ltd.	EPL	В		56	-	44	-	1,860
Med	dian			42	-	58	-	12,910
Income								
Canadian Oil Sands Trust (US\$)	COSWF	В	Canada	-	-	100	-	14,400
Penn West Energy Trust	PWTFF	В	Canada	43	-	57	-	5,800
Enerplus Resources Fund	ERF		Canada	61	-	39	-	5,070
Pengrowth Energy Trust	PGH		Canada	43	-	57	-	3,720
San Juan Basin Royalty Trust	SJT			100	-	-	-	1,860
	dian			43	-	57	-	30,900
								, -

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 25, 2005

Index of Recent Research

Stock Ideas

Stock Iu	cas		
<u>Date</u>	<u>Symbol</u>	<u>Stock</u>	<u>Theme</u>
21-Oct	IMO	Imperial Oil Limited	The Unpromoters
21-Oct	XTO	XTO Energy Inc.	Ready for Winter
20-Oct	KMx	Kinder Morgan	Wheel and Deal
14-Oct	OXY	Occidental Petroleum Corporation	Buy Despite Momentum Signal
13-Oct	APC BR	DVN OXY XTO	Edge of Panic
7-Oct	ECA IM	O PCZ SU	Exaggerated Stock Price Change
5-Oct	RDSA	Royal Dutch Shell plc	Downstream Beneficiary
4-Oct	BR	Burlington Resources, Inc.	Natural Gas Beneficiary
27-Sep	ECA	EnCana Corporation	Canada's Largest Company
26-Sep	* LUKOY	Lukoil Oil Company	Adapting to New Russia
22-Sep	* MRO	Marathon Oil Corporation	Hurricane Watch
19-Sep	* NHY	Norsk Hydro ASA	Acquiring U.S. Producer for \$2.45 Billion
16-Sep	* XOM	Exxon Mobil Corporation	New Highs Ahead
15-Sep	* OGZPF	Gazprom	The Ultimate Natural Gas Stock
9-Sep	* APC	Anadarko Petroleum Corporation	Natural Gas Jumps
7-Sep	* EPL	Energy Partners, Ltd.	Katrina Survivor
6-Sep	* COP	ConocoPhillips	Refining and Natural Gas Event
30-Aug	* CEO	CNOOC Ltd	Independent Producer with Income
28-Aug	* PTR	PetroChina Company Limited	Income Stock
21-Aug	* PTR	PetroChina Company Limited	Understated Natural Gas Resources
18-Aug	* SJT	San Juan Basin Royalty Trust	Sharp Stock Price Drop
17-Aug	* CVX	Chevron Corporation	Astute Acquisition
16-Aug	* EPL	Energy Partners, Ltd.	Denali 2006
15-Aug	* XEC	Cimarex Energy Company	\$Billion Cash Flow for Small Cap NG Producer
11-Aug	* PWTFF	Penn West Energy Trust	Undiscovered by U.S. Investors
11-Aug	* SU	Suncor Energy Inc.	Oil Price and Operating Reliability
8-Aug	* TOT	Total S.A.	Oil Sands Oui!
3-Aug	* DVN	Devon Energy Corporation	Raise Net Present Value to \$86 a Share
2-Aug	*	26 Stocks - Single Issue Statistics	Raise Net Present Value to \$xx a Share
28-Jul	* EAC	Encore Acquisition Company	HPAI Incline
27-Jul	* BP	BP p.l.c.	Steady-State Growth
22-Jul	* PCZ	Petro-Canada	Approaching Par
22-Jul	* COSWF	Canadian Oil Sands Trust	Distribution Capability Blossoming

Meter Reader - A Weekly Analysis

24-Oct		Back Up the Truck
17-Oct	*	Winter Rally
11-Oct	*	Oil, Natural Gas and the U.S. Economy
6-Oct	*	Flash: Industry Outlook Stable
Natural 21-Oct 14-Oct 7-Oct 30-Sep	Gas and Oil Royalty Trusts - A Weekly Analysis * * * *	Third Week in October Fraud on the Street October Jitters Seven Eleven