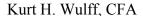
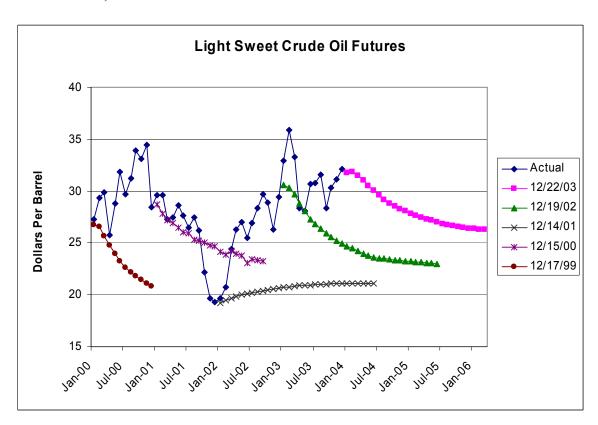
A Weekly Analysis of Energy Stocks Using the McDep Ratio January 27, 2004

Flawed Forecasts

Summary and Recommendation

Futures prices for crude oil have understated actual prices for most of the current decade much as forecasters typically overestimated oil prices during the 1980s. Recent futures curves often look like "hockey sticks" upside down (see chart). The sports analogy popular in the post mortem characterization of 1980s forecasts pictured the long handle pointing up. Not pretending to know the near-term price outlook, we continue to use one-year futures in our projections of next twelve months cash flow. Believing that the long-term price outlook is stronger, we broke the link between six-year futures and present value, the denominator of the McDep Ratio, when we adopted our current standard that relates essentially to six-year futures for January 5, 2004 plus 20%. Long-term better than expected oil price implies the same for natural gas and favorable investment performance for buy recommendations including XTO Energy (XTO), CNOOC Limited (CEO) and Cimarex (XEC).





A Weekly Analysis of Energy Stocks Using the McDep Ratio January 27, 2004

Table 1-1
Energy Producers
Rank by McDep Ratio: Market Cap and Debt to Present Value

	Price							
			(\$/sh)		Market	Present	_Debt/	
	Symbol/		26-Jan	Shares	Сар	Value	Present	McDep
	Rating		2004	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Mega Cap	****				25.000	12.00	0.00	0.05
Exxon Mobil Corporation	XOM		41.55	6,652	276,000	43.00	0.08	0.97
Total S.A.	TOT	_	91.39	1,261	115,200	105.00	0.17	0.89
Royal Dutch/Shell	RD	В	48.10	3,473	167,000	60.00	0.17	0.83
BP plc	BP	_	48.60	3,682	179,000	60.00	0.13	0.83
ChevronTexaco Corporation	CVX	В	87.60	1,064	93,200	115.00	0.17	0.80
Total or Median					830,000		0.17	0.83
Producer/Refiners - Large Cap and	-	0	(1.06	104	7.710	1400	0.00	1.60
Kinder Morgan, Inc.	KMI	S	61.96	124	7,710	14.00	0.80	1.69
Imperial Oil Limited (30%)	IMO		47.12	111	5,230	43.00	0.12	1.08
Murphy Oil Corporation	MUR		63.45	93	5,890	62.00	0.20	1.02
Valero Energy Corporation	VLO		53.45	120	6,410	55.00	0.42	0.98
Petro-Canada	PCZ		52.01	265	13,780	54.00	0.12	0.97
Suncor Energy	SU		26.50	475	12,590	30.00	0.12	0.90
ENI S.p.A.	E		94.75	755	71,600	108.00	0.16	0.90
Petroleo Brasileiro S. A.	PBR		33.05	1,096	36,200	40.00	0.28	0.88
ConocoPhillips	COP	В	67.92	680	46,200	88.00	0.33	0.85
Marathon Oil Corporation	MRO	В	34.56	310	10,710	47.00	0.27	0.81
PetroChina Company Ltd (10%)	PTR	В	49.96	176	8,780	65.00	0.09	0.79
Lukoil Oil Company	LUKOY	В	104.30	211	22,000	140.00	0.07	0.76
Norsk Hydro ASA	NHY	В	65.06	257	16,720	95.00	0.19	0.75
Total or Median					264,000		0.19	0.90
Independent Natural Gas and Oil	DDD		47.50		2 0 40	7 0.00	0.10	0.06
Pogo Producing Company	PPP		47.53	64	3,040	50.00	0.10	0.96
Occidental Petroleum Corp.	OXY		44.88	391	17,600	50.00	0.26	0.92
Apache Corporation	APA	-	42.19	324	13,700	47.00	0.19	0.92
CNOOC Limited (19%)	CEO	В	42.15	78	3,290	48.00	- 0.10	0.88
XTO Energy Inc.	XTO	В	27.60	186	5,140	33.00	0.19	0.87
Canadian Natural Resources Limited	-		53.45	137	7,320	72.00	0.34	0.83
Unocal Corporation	UCL		38.67	273	10,600	52.00	0.28	0.82
Pioneer Natural Resources Company		ъ	33.84	119	4,030	45.00	0.26	0.82
Encana Corporation	ECA	В	42.31	470	19,900	56.00	0.19	0.80
Burlington Resources	BR	В	58.76	198	11,600	80.00	0.21	0.79
Anadarko Petroleum Corp.	APC	В	52.39	251	13,100	76.00	0.26	0.77
Devon Energy	DVN		59.36	241	14,300	90.00	0.30	0.76
Total or Median					124,000		0.23	0.82
Service	DIII		25.01	226	12 100	20.00	0.07	1 10
Baker Hughes Inc.	BHI		35.91	336	12,100	30.00	0.07	1.19
Halliburton Company	HAL		29.28	435	12,700	28.00	0.28	1.03
Schlumberger Ltd.	SLB		61.06	585	35,700	60.00	0.17	1.01
Total or Median					61,000		0.17	1.03

Buy/Sell rating after symbol: B - Buy, S - Sell

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 January 27, 2004

Table 1-2
Energy Producers
Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

			Price				Divd or	
			(\$/sh)	EV/	EV/		Distrib	PV/
	Symbol/		26-Jan	Sales	Ebitda	P/E	NTM	Ebitda
	•	ting	2004	NTM	NTM	NTM	(%)	NTM
Mega Cap							(,)	
Exxon Mobil Corporation	XOM		41.55	1.2	8.2	16	2.4	8.4
Total S.A.	TOT		91.39	1.2	7.2	14	3.8	8.1
BP plc	BP		48.60	0.9	6.7	14	3.2	8.1
Royal Dutch/Shell	RD	В	48.10	1.0	6.2	13	4.6	7.4
ChevronTexaco Corporation	CVX	В	87.60	0.9	5.8	11	3.3	7.3
Median				1.0	6.7	14	3.3	8.1
Producer/Refiners - Large Cap and	Mid Cap			1.0	0.,	- ,	0.0	0.1
Kinder Morgan, Inc.	KMI	S	61.96	3.1	13.1	19	2.6	7.7
Imperial Oil Limited (30%)	IMO	_	47.12	1.4	8.1	16	1.4	7.4
Murphy Oil Corporation	MUR		63.45	1.6	7.6	19	1.3	7.5
Suncor Energy	SU		26.50	2.8	7.6	14	0.6	8.4
Valero Energy Corporation	VLO		53.45	0.3	6.7	10	0.9	6.9
ConocoPhillips	COP	В	67.92	0.7	5.8	9	2.5	6.9
ENI S.p.A.	E	_	94.75	1.6	5.7	11	4.6	6.3
Marathon Oil Corporation	MRO	В	34.56	0.4	5.6	12	2.9	6.9
Petro-Canada	PCZ	_	52.01	1.7	5.1	15	0.6	5.3
PetroChina Company Ltd (10%)	PTR	В	49.96	2.6	4.7	9	4.1	5.9
Norsk Hydro ASA	NHY	В	65.06	0.8	4.3	11	2.4	5.7
Petroleo Brasileiro S. A.	PBR		33.05	1.7	4.3	5	3.1	4.9
Lukoil Oil Company	LUKOY	В	104.30	1.0	4.1	6	2.5	5.4
Median				1.6	5.7	11	2.5	6.9
Independent Natural Gas and Oil								
CNOOC Limited (19%)	CEO	В	42.15	4.9	6.2	12	3.8	7.0
XTO Energy Inc.	XTO	В	27.60	4.2	5.5	10	0.1	6.4
Pioneer Natural Resources Company	PXD		33.84	3.9	5.5	14	-	6.7
Occidental Petroleum Corp.	OXY		44.88	2.5	5.3	9	2.3	5.8
Encana Corporation	ECA	В	42.31	2.6	5.2	13	0.7	6.6
Unocal Corporation	UCL		38.67	2.5	5.2	11	2.1	6.3
Anadarko Petroleum Corp.	APC	В	52.39	3.7	5.2	9	1.1	6.7
Apache Corporation	APA		42.19	3.6	5.1	10	0.6	5.5
Burlington Resources	BR	В	58.76	3.5	4.8	11	1.0	6.1
Canadian Natural Resources Limited	CNO		53.45	3.3	4.6	10	0.9	5.6
Devon Energy	DVN		59.36	2.8	4.2	7	_	5.4
Pogo Producing Company	PPP		47.53	2.8	4.0	9	0.4	4.2
Median				3.4	5.2	10	0.8	6.2
Service								
Baker Hughes Inc.	BHI		35.91	2.4	13.0	33	1.3	11.0
Halliburton Company	HAL		29.28	1.1	12.5	26	1.7	12.1
Schlumberger Ltd.	SLB		61.06	3.0	10.8	37	1.2	10.7
Median				2.4	12.5	33	1.3	11.0

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended December 31, 2004; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio January 27, 2004

Table 2-1
Independent Natural Gas and Oil Producers - Small Cap
Rank by McDep Ratio: Market Cap and Debt to Present Value

		Price		Mandage	Net	D = h4/	
	G 1 1/	(\$/sh)	CI	Market	Present	Debt/	17 D
	Symbol/	26-Jan	Shares	Cap	Value	Present	McDep
	Rating	2004	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Short Life							
Spinnaker Exploration Company	SKE	35.80	33.9	1,210	28.00	0.08	1.26
Southwestern Energy Company	SWN	23.66	36.0	850	21.00	0.28	1.09
Energy Partners Ltd.	EPL	14.38	36.9	531	15.00	0.19	0.97
Western Gas Resources	WGR	47.88	37.0	1,770	50.00	0.17	0.97
Newfield Exploration Company	NFX	49.28	56.0	2,760	52.00	0.24	0.96
Chesapeake Energy Corporation	CHK	13.25	220	2,920	18.00	0.35	0.83
Stone Energy Company	SGY	44.58	26.6	1,190	58.00	0.23	0.82
Range Resources Corporation	RRC	11.11	57.0	630	15.00	0.32	0.82
Denbury Resources Inc.	DNR	14.70	55.7	820	20.00	0.25	0.80
Westport Resources Corporation	WRC	31.10	68.0	2,120	42.00	0.22	0.80
Cimarex Energy Company	XEC B	27.38	42.0	1,150	35.00	0.00	0.78
The Houston Exploraton Company	THX	38.80	31.0	1,200	55.00	0.13	0.74
St. Mary Land and Exploration Compar	n SM	30.35	29.0	880	43.00	0.12	0.74
Forest Oil Corporation	FST	27.67	49.0	1,360	45.00	0.30	0.73
Total or Median				19,400		0.23	0.82
Long Life							
Ultra Petroleum Corp.	UPL	25.50	78.0	1,990	16.00	0.08	1.55
Unit Corporation	UNT	26.30	43.7	1,150	22.00	0.02	1.19
Penn Virginia Corporation	PVA	60.12	9.1	550	56.00	0.17	1.06
Quicksilver Resources Inc.	KWK	36.00	23.0	830	37.00	0.25	0.98
Berry Petroleum Company	BRY	20.34	22.1	450	22.00	0.12	0.93
Swift Energy Company	SFY	18.89	27.4	520	22.00	0.37	0.91
Evergreen Resources, Inc.	EVG	34.82	44.0	1,530	42.00	0.12	0.85
Encore Acquisition Corp.	EAC B	27.10	30.3	822	33.00	0.13	0.84
Magnum Hunter Resources, Inc.	MHR	9.46	68.0	640	15.00	0.38	0.77
Vintage Petroleum, Inc.	VPI	13.32	63.0	840	27.00	0.32	0.66
Total or Median				9,300		0.15	0.92
Micro Cap							
Abraxas Petroleum Corporation	ABP	1.76	35.8	63	1.00	0.84	1.12
Purcell Energy, Ltd. (US\$)	PEL.TO	2.03	48.0	98	2.80	0.28	0.80

Buy/Sell rating after symbol: B - Buy, S - Sell

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 January 27, 2004

Table 2-2
Independent Natural Gas and Oil Producers - Small Cap
Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

			Price (\$/sh)	EV/	EV/	Divd or Distrib		PV/
	Symbol/		26-Jan	Sales	Ebitda	P/E	NTM	Ebitda
	•	ting	20-3an 2004	NTM	NTM	NTM	(%)	NTM
	Kui	ing	2004	1 V 1 1V1	1 V 1 1V1	1 1 1 111	(70)	1 V 1 1V1
Short Life								
Western Gas Resources	WGR		47.88	0.8	9.4	20	-	9.7
Southwestern Energy Company	SWN		23.66	3.3	5.8	11	-	5.3
Spinnaker Exploration Company	SKE		35.80	4.9	5.4	15	-	4.3
Denbury Resources Inc.	DNR		14.70	3.0	4.4	7	-	5.4
Chesapeake Energy Corporation	CHK		13.25	3.2	4.3	8	0.9	5.2
Energy Partners Ltd.	EPL		14.38	2.7	4.3	15	_	4.4
Stone Energy Company	SGY		44.58	3.1	4.2	9	-	5.1
Newfield Exploration Company	NFX		49.28	2.9	4.0	9	-	4.2
Cimarex Energy Company	XEC	В	27.38	3.1	4.0	9	-	5.2
Westport Resources Corporation	WRC		31.10	3.1	4.0	10	-	5.0
Range Resources Corporation	RRC		11.11	3.2	4.0	7	0.4	4.9
St. Mary Land and Exploration Company	SM		30.35	2.6	3.9	10	0.3	5.2
Forest Oil Corporation	FST		27.67	2.8	3.8	6	-	5.2
The Houston Exploraton Company	THX		38.80	2.4	2.9	6	-	3.9
Median				3.0	4.1	9	-	5.1
Long Life								
Ultra Petroleum Corp.	UPL		25.50	12.8	16.7	29	-	10.8
Quicksilver Resources Inc.	KWK		36.00	5.6	8.4	15	-	8.6
Unit Corporation	UNT		26.30	3.5	7.7	18	-	6.4
Berry Petroleum Company	BRY		20.34	3.6	7.5	15	2.2	8.0
Evergreen Resources, Inc.	EVG		34.82	5.4	7.3	12	-	8.6
Penn Virginia Corporation	PVA		60.12	3.6	6.3	14	1.5	5.9
Swift Energy Company	SFY		18.89	3.9	5.9	14	-	6.5
Encore Acquisition Corp.	EAC	В	27.10	3.8	5.2	10	-	6.2
Magnum Hunter Resources, Inc.	MHR		9.46	3.1	4.8	9	-	6.2
Vintage Petroleum, Inc.	VPI		13.32	2.3	3.9	8	1.4	5.9
Median				3.7	6.8	14	-	6.5
Micro Cap								
Abraxas Petroleum Corporation	ABP		1.76	7.3	11.4		-	10.1
Purcell Energy, Ltd. (US\$)	PEL.TO		2.03	3.6	4.8	9	-	6.0

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended December 31, 2004; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses