A Weekly Analysis of Energy Stocks Using the McDep Ratio March 23, 2004

# **Raise Present Value Up to 30%**

### **Summary and Recommendation**

Underscoring our conviction that the trend in rising oil and gas values will continue we raise our estimate of present value, the denominator of the McDep Ratio, by 15% for natural gas and oil producers, 25% for producer/refiners and 30% for small cap long life producers. As a result, the median McDep Ratio for 14 producer recommendations drops to less than 0.70. Specifically, each of our non-U.S. producer/refiner recommendations, **Norsk Hydro (NHY)**, **Lukoil (LUKOY)** and **PetroChina (PTR)**, have low McDep Ratios near 0.60, thereby implying some 66% unlevered appreciation potential. The changes bring valuation of non-mega cap producers to the mega cap level. Still, the mega caps have lower risk and indeed there are sure to be bumps along the road to oil and gas producer rewards.

#### Second Revaluation in 2004

In a sign of the times, we boost values across the board for the second time this year. Earlier we severed the connection between our estimates and six-year futures (see *Meter Reader*, January 6, 2003). Now we tie our estimates to futures prices that the trend points toward, but has not yet reached. Long-term oil and gas prices, the most volatile indicator of changes in resource value continue in a steady uptrend with six-year futures above the 40-week moving average.

#### Align Large and Small with Mega Cap

Valuation for the largest mega cap remains unchanged as we make valuation more consistent for non-mega caps. Some of the difference crept in during the past decades of lack luster commodity price. Most of the difference is the greater increase in value for producers more concentrated on oil and gas resources as opposed to refining/marketing and other businesses.

Cash generated from oil and gas production and how long it will last is nearly a complete indicator of the value of oil and gas stocks. Market cash flow multiples for 66 producers have a strong 88% statistical correlation with adjusted reserve life.

Capturing that simple relationship, we adopt the same formula to update estimates for all producers. Initially, we reassess cash flow multiple, PV/Ebitda, as 2.5 plus 0.5 times adjusted reserve life. Then we apply some limits including no current McDep Ratios for

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producers above 1.20 or below 0.60. We arbitrarily limit adjusted reserve life, the ratio of proven developed reserves plus half proven undeveloped reserves to next twelve months production, to 20 years. At this stage there are few cases where we made any more adjustment. Further refinements are likely as we update stock ideas and work through a backlog of final 2003 disclosures.

### Long Life More Valuable

The assessment formula gives more credit to longer life than does the market correlation. In a rising price environment, longer life companies may increase more in value relative to shorter life companies and vice-versa. Non-U.S. producer/refiners and small cap producers with the long life designation increase more in value as a result.

#### New Values Assume \$6 Natural Gas and \$35 Oil

Assessed multiples roughly reflect constant oil and gas price at next twelve months futures. Estimated cash flow for the next twelve months ended March 31, 2005 remains tied to futures for the same period which are about \$5.80 a million btus for natural gas and \$34.60 a barrel for oil. For a typical producer with an adjusted reserve life of 10 years we assess a multiple of 7.5.

New estimates could still be exceeded. Last year we explained how we thought the trend value for six-year natural gas was \$7 a million btus (see *Meter Reader*, June 12, 2003).

#### **Numbers Pack a Powerful Message**

The tables attached to our weekly analysis present a comprehensive picture of prospects (see Tables 1-1 through 2-3). Each of our producing company recommendations is highlighted along with the suggested unlevered portfolio weight.

When conditions are changing rapidly, simple methods can give a useful, quick picture. We recall a brief time during the Carter Administration in the 1970s when we were seeing oil and gas deals done at 100% of future revenue! Never mind subtracting costs or discounting for time value, the implication was that future price would be that much higher than the current price used in the revenue calculation.

Of course, the futures market assumes that current prices won't last. Nor are stocks priced at the values we place on them. The potential for stocks to approach the values we see and for long-term futures to approach short-term futures is a large part of the oil and gas investment opportunity. While there are sure to be periods when the trend softens, the long-term direction seems clear.

#### Kurt H. Wulff, CFA

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

			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbol/		22-Mar	Shares	Cap	Value	Present	McDep
	Rat	ing	2004	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Mega Cap								
Exxon Mobil Corporation	XOM		40.94	6,612	271,000	43.00	0.08	0.96
BP plc	BP		48.93	3,684	180,000	60.00	0.13	0.84
Total S.A.	TOT		89.98	1,251	112,600	113.00	0.16	0.83
Royal Dutch/Shell	RD	В	46.51	3,389	158,000	60.00	0.18	0.82
ChevronTexaco Corporation	CVX	В	87.30	1,064	92,900	125.00	0.15	0.74
Total or Median					815,000		0.15	0.83
Producer/Refiners - Large Cap and	Mid Cap							
Kinder Morgan, Inc.	KMI	S	63.70	124	7,900	14.00	0.80	1.69
Valero Energy Corporation	VLO		58.00	120	6,950	55.00	0.42	1.03
Murphy Oil Corporation	MUR		62.65	93	5,810	62.00	0.20	1.01
Imperial Oil Limited (30%)	IMO		43.60	110	4,790	44.00	0.12	0.99
Marathon Oil Corporation	MRO		33.44	311	10,390	41.00	0.30	0.87
ConocoPhillips	COP	В	68.95	680	46,900	110.00	0.28	0.73
ENI S.p.A.	E		98.64	755	74,500	150.00	0.12	0.70
Petro-Canada	PCZ		42.70	265	11,320	68.00	0.10	0.67
Suncor Energy	SU		27.13	475	12,890	48.00	0.08	0.60
PetroChina Company Ltd (10%)	PTR	b	50.30	176	8,840	88.00	0.07	0.60
Norsk Hydro ASA	NHY	В	70.00	257	17,970	130.00	0.13	0.60
Lukoil Oil Company	LUKOY	b	120.00	211	25,000	208.00	0.05	0.60
Petroleo Brasileiro S. A.	PBR		32.32	1,096	35,400	65.00	0.20	0.60
Total or Median					269,000		0.13	0.70
<b>Independent Natural Gas and Oil</b>								
CNOOC Limited (19%)	CEO	b	42.37	78	3,310	55.00	-	0.77
Canadian Natural Resources Limited	_		55.44	137	7,600	88.00	0.29	0.74
Encana Corporation	ECA	В	42.20	472	19,900	63.00	0.18	0.73
Apache Corporation	APA		41.77	324	13,500	64.00	0.15	0.70
XTO Energy Inc.	XTO	В	24.67	225	5,560	38.00	0.15	0.70
Unocal Corporation	UCL		36.98	274	10,100	60.00	0.22	0.70
Occidental Petroleum Corp.	OXY		45.63	396	18,100	75.00	0.19	0.68
Pioneer Natural Resources Company			32.52	119	3,870	57.00	0.22	0.67
Pogo Producing Company	PPP		44.69	64	2,860	70.00	0.07	0.66
Anadarko Petroleum Corp.	APC	В	52.80	252	13,300	94.00	0.22	0.66
Devon Energy	DVN		57.11	242	13,800	120.00	0.24	0.60
Burlington Resources	BR	В	60.68	198	12,000	115.00	0.15	0.60
Total or Median					124,000		0.18	0.69
Service								
Baker Hughes Inc.	BHI		36.00	336	12,100	30.00	0.07	1.19
Schlumberger Ltd.	SLB		62.35	585	36,500	60.00	0.17	1.03
Halliburton Company	HAL		29.09	435	12,700	28.00	0.28	1.03
Total or Median					61,000		0.17	1.03

Buy/Sell rating after symbol: B - Buy full position, b - buy half position, s - short half 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 March 23, 2004

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

			Price	EII/	EII/		Divd or	DIV/
	G 1 1/		(\$/sh)	EV/	EV/	D/E	Distrib	PV/
	Symbol/	,.	22-Mar	Sales	Ebitda	P/E	NTM	Ebitda
Maga Can	Ra	ting	2004	NTM	NTM	NTM	(%)	NTM
Mega Cap	VOM		40.04	1 1	7.6	1.4	2.4	9.0
Exxon Mobil Corporation	XOM		40.94	1.1	7.6	14	2.4	8.0
Total S.A.	TOT		89.98	1.0	6.4	12	4.9	7.7
BP plc	BP	D	48.93	0.9	6.2	13	3.3	7.3
ChevronTexaco Corporation Royal Dutch/Shell	CVX RD	B B	87.30 46.51	0.9	5.8 5.6	10	3.3	7.8
Median	KD	В	40.31	1.0		12 12	4.7	6.8 7.7
Producer/Refiners - Large Cap and Mi	d Can			1.0	6.2	12	3.3	/./
Kinder Morgan, Inc.	u Cap KMI	C	63.70	3.0	13.3	19	2.5	7.8
Imperial Oil Limited (30%)	IMO	S	43.60	1.3	7.8	16	1.5	7.8
Valero Energy Corporation	VLO		58.00	0.3	7.3	12	0.8	7.9
Murphy Oil Corporation	MUR		62.65	1.4	7.3	15	1.3	7.1
Suncor Energy	SU		27.13	2.7	7.0	13	0.6	11.6
ConocoPhillips	COP	В	68.95	0.7	7.0 5.9	9	2.5	8.0
ENI S.p.A.	E	Ь	98.64	1.5	5.2	10	4.6	7.4
Marathon Oil Corporation	MRO		33.44	0.4	5.1	10	3.0	5.9
PetroChina Company Ltd (10%)	PTR	b	50.30	2.6	4.8	9	4.1	8.0
Petro-Canada	PCZ	U	42.70	1.4	4.1	11	1.1	6.1
Norsk Hydro ASA	NHY	В	70.00	0.8	3.9	9	2.3	6.5
Lukoil Oil Company	LUKOY	b	120.00	1.0	3.8	6	2.3	6.4
Petroleo Brasileiro S. A.	PBR	U	32.32	1.6	3.8	5	3.2	6.4
Median	IDK		32.32	1.0 1.4	5.2	10	2.3	7.1
Independent Natural Gas and Oil				1.7	3.2	10	2.3	7.1
XTO Energy Inc.	XTO	В	24.67	4.4	6.0	11	0.2	8.6
CNOOC Limited (19%)	CEO	b	42.37	4.7	6.0	12	3.8	7.7
Occidental Petroleum Corp.	OXY	Ü	45.63	2.5	5.4	9	2.4	7.9
Anadarko Petroleum Corp.	APC	В	52.80	3.7	5.3	10	1.1	8.1
Pioneer Natural Resources Company	PXD	D	32.52	3.7	5.2	19	-	7.9
Unocal Corporation	UCL		36.98	2.2	4.8	11	2.2	6.8
Burlington Resources	BR	В	60.68	3.4	4.7	10	1.0	7.8
Apache Corporation	APA		41.77	3.3	4.7	9	0.6	6.7
Canadian Natural Resources Limited	CNQ		55.44	3.1	4.5	9	0.8	6.1
Encana Corporation	ECA	В	42.20	2.2	4.5	12	0.9	6.2
Pogo Producing Company	PPP		44.69	2.5	3.5	8	0.4	5.3
Devon Energy	DVN		57.11	3.0	3.5	7	0.4	5.8
Median				3.2	4.7	10	0.9	7.3
Service								
Baker Hughes Inc.	BHI		36.00	2.4	13.0	33	1.3	11.0
Halliburton Company	HAL		29.09	1.1	12.5	26	1.7	12.1
Schlumberger Ltd.	SLB		62.35	3.1	11.0	38	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 March 31, 2005; 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 March 23, 2004

Table 1-3
Energy Producers
Determinants of Present Value

			NG & O	N. Am.	Adjusted			McDep
			Prod/	Gas/	Reserves/	PV/	NG&O	Ratio
	Symbol/		Ebitda	Ebitda	Prod	Ebitda	Ebitda/	22-Mar
	Rat	ting	(%)	(%)	NTM	NTM	mcfe	2004
Mega Cap								
Royal Dutch/Shell	RD	В	75	5	8.5	6.8	3.25	0.82
Total S.A.	TOT		78	1	9.2	7.7	3.09	0.83
BP plc	BP		80	10	9.8	7.3	3.23	0.84
ChevronTexaco Corporation	CVX	В	82	12	10.5	7.8	2.94	0.74
Exxon Mobil Corporation	XOM		74	11	10.9	8.0	3.05	0.96
Median			78	10	9.8	7.7	3.09	0.83
Producer/Refiners - Large Cap and M	Iid Cap							
Valero Energy Corporation	VLO		-	-		7.1		1.03
Kinder Morgan, Inc.	KMI	S	6	-		7.8		1.69
Marathon Oil Corporation	MRO		73	24	6.9	5.9	2.91	0.87
Petro-Canada	PCZ		84	23	7.2	6.1	2.33	0.67
Murphy Oil Corporation	MUR		94	29	7.3	7.0	3.73	1.01
Norsk Hydro ASA	NHY	В	64	-	8.5	6.5	3.06	0.60
Petroleo Brasileiro S. A.	PBR		94	-	9.9	6.4	2.79	0.60
ENI S.p.A.	E		55	-	9.9	7.4	2.82	0.70
Imperial Oil Limited (30%)	IMO		75	18	10.7	7.9	2.38	0.99
ConocoPhillips	COP	В	72	14	11.2	8.0	2.62	0.73
PetroChina Company Ltd (10%)	PTR	b	78	-	16.0	8.0	3.90	0.60
Suncor Energy	SU		94	9	19.0	11.6	3.43	0.60
Lukoil Oil Company	LUKOY	b	59	-	20.0	6.4	1.18	0.60
Median	ı		73	-	9.9	7.1	2.82	0.70
Independent Natural Gas and Oil								
Pogo Producing Company	PPP		100	34	5.8	5.3	3.70	0.66
Canadian Natural Resources Limited	CNQ		100	50	7.2	6.1	2.69	0.74
Encana Corporation	ECA	В	98	66	7.3	6.2	3.76	0.73
Devon Energy	DVN		100	60	7.4	5.8	4.35	0.60
Apache Corporation	APA		100	45	8.1	6.7	3.79	0.70
Unocal Corporation	UCL		100	29	8.6	6.8	3.38	0.70
Burlington Resources	BR	В	100	70	10.3	7.8	3.47	0.60
Pioneer Natural Resources Company	PXD		100	56	10.6	7.9	3.01	0.67
CNOOC Limited (19%)	CEO	b	100	-	10.7	7.7	3.79	0.77
Anadarko Petroleum Corp.	APC	В	100	55	10.9	8.1	3.21	0.66
Occidental Petroleum Corp.	OXY		86	14	10.9	7.9	3.37	0.68
XTO Energy Inc.	XTO	В	100	87	11.7	8.6	3.77	0.70
Median	ı		100	53	9.5	7.3	3.58	0.69

A Weekly Analysis of Energy Stocks Using the McDep Ratio March 23, 2004

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

			Price (\$/sh)		Market	Net Present	Debt/	
	Symbo	l/	22-Mar	Shares	Cap	Value	Present	McDep
	Rai	ting	2004	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Short Life								
Spinnaker Exploration Company	SKE		34.37	34.2	1,180	28.00	0.11	1.20
Western Gas Resources	WGR		49.36	37.0	1,830	50.00	0.17	0.99
Southwestern Energy Company	SWN		23.02	36.0	830	29.00	0.22	0.84
The Houston Exploraton Company	THX		41.53	31.0	1,290	55.00	0.20	0.80
Newfield Exploration Company	NFX		46.55	56.0	2,610	67.00	0.20	0.76
Stone Energy Company	SGY		47.50	26.6	1,260	72.00	0.20	0.73
Cimarex Energy Company	XEC	b	27.50	42.7	1,170	38.00	0.00	0.72
Denbury Resources Inc.	DNR		15.58	55.7	870	25.00	0.21	0.70
St. Mary Land and Exploration Compar	ı;SM		33.04	29.0	960	50.00	0.10	0.69
Energy Partners Ltd.	EPL		13.95	37.4	522	22.00	0.14	0.68
PetroKazakhstan Inc.	PKZ		27.59	81.0	2,240	42.00	0.03	0.67
Chesapeake Energy Corporation	CHK		12.70	220	2,790	24.00	0.29	0.66
Westport Resources Corporation	WRC		32.95	68.0	2,240	57.00	0.17	0.65
Range Resources Corporation	RRC		11.76	57.0	670	24.00	0.22	0.60
Forest Oil Corporation	FST		24.37	49.0	1,190	53.00	0.26	0.60
Total or Median					21,700		0.20	0.70
Long Life								
Ultra Petroleum Corp.	UPL		29.85	78.0	2,330	25.00	0.05	1.18
Unit Corporation	UNT		27.03	44.1	1,190	25.00	0.01	1.08
Penn Virginia Corporation	PVA		58.20	9.1	530	72.00	0.14	0.84
Quicksilver Resources Inc.	KWK		39.01	25.2	980	50.00	0.19	0.82
Swift Energy Company	SFY		18.55	27.4	510	32.00	0.29	0.70
Encore Acquisition Corp.	EAC	b	26.65	30.5	812	47.00	0.18	0.65
Magnum Hunter Resources, Inc.	MHR		9.64	68.0	660	20.00	0.32	0.65
Berry Petroleum Company	BRY	b	26.69	22.1	590	43.00	0.07	0.65
Whiting Petroleum Corporation	WLL		21.95	18.7	410	40.00	0.19	0.63
Evergreen Resources, Inc.	EVG		32.98	44.0	1,450	59.00	0.10	0.60
Vintage Petroleum, Inc.	VPI		14.58	63.0	920	33.00	0.28	0.60
Total or Median					10,400		0.18	0.65
Micro Cap								
Abraxas Petroleum Corporation	ABP		2.72	35.8	97	1.50	0.77	1.18
Purcell Energy, Ltd. (US\$)	PEL.T	O	1.88	48.0	90	2.80	0.27	0.76

Buy/Sell rating after symbol: b - buy half unlevered position in diversified energy portfolio 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 March 23, 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/	I	PV/	
	Symbol/		(φ/sn) 22-Mar	Sales	Ebitda	P/E	Distrib NTM	Ebitda
	•	ting	22-Mar 2004	NTM	NTM	NTM	(%)	NTM
	Na	ung	2004	1 <b>V 1</b> 1 <b>V1</b>	1 V 1 1V1	1 <b>V 1</b> 1 <b>V1</b>	(/0)	1 <b>V 1</b> 1V1
Short Life								
Western Gas Resources	WGR		49.36	0.8	9.2	19	-	9.3
Southwestern Energy Company	SWN		23.02	3.3	5.8	11	-	6.9
Spinnaker Exploration Company	SKE		34.37	4.9	5.7	16	-	4.7
Denbury Resources Inc.	DNR		15.58	3.1	4.6	9	-	6.6
Cimarex Energy Company	XEC	b	27.50	3.4	4.5	12	-	6.2
Stone Energy Company	SGY		47.50	3.2	4.4	9	-	6.0
Chesapeake Energy Corporation	CHK		12.70	3.2	4.3	8	0.9	6.4
Westport Resources Corporation	WRC		32.95	3.2	4.2	10	-	6.4
Range Resources Corporation	RRC		11.76	3.3	4.2	8	0.3	6.9
St. Mary Land and Exploration Company	y SM		33.04	2.8	4.1	11	0.3	5.9
Newfield Exploration Company	NFX		46.55	2.8	3.9	9	-	5.2
The Houston Exploraton Company	THX		41.53	2.9	3.6	8	-	4.5
Forest Oil Corporation	FST		24.37	2.6	3.6	6	-	5.9
Energy Partners Ltd.	EPL		13.95	2.4	3.5	13	-	5.1
PetroKazakhstan Inc.	PKZ		27.59	1.8	3.3	5	-	5.0
Median				3.1	4.2	9	-	6.0
Long Life								
Ultra Petroleum Corp.	UPL		29.85	10.9	14.1	23	-	11.9
Quicksilver Resources Inc.	KWK		39.01	6.5	9.9	19	_	12.1
Unit Corporation	UNT		27.03	3.5	8.3	21	-	7.7
Evergreen Resources, Inc.	EVG		32.98	5.1	7.3	12	-	12.0
Berry Petroleum Company	BRY	b	26.69	3.5	6.2	10	1.6	9.6
Penn Virginia Corporation	PVA		58.20	3.5	6.1	13	1.5	7.3
Swift Energy Company	SFY		18.55	3.8	5.6	13	-	8.0
Encore Acquisition Corp.	EAC	b	26.65	4.1	5.6	9	-	8.6
Whiting Petroleum Corporation	WLL		21.95	3.1	4.8	10	-	7.6
Magnum Hunter Resources, Inc.	MHR		9.64	3.1	4.8	9	-	7.4
Vintage Petroleum, Inc.	VPI		14.58	2.3	4.0	8	1.2	6.7
Median				3.5	6.1	12	-	8.0
Micro Cap								
Abraxas Petroleum Corporation	ABP		2.72	8.3	13.0		-	11.0
Purcell Energy, Ltd. (US\$)	PEL.TO		1.88	3.3	4.5	8	-	5.9

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended March 31, 2005; 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 March 23, 2004

Table 2-3
Independent Natural Gas and Oil Producers - Small Cap
Determinants of Present Value

			NG & O	N. Am.	Adjusted	D.T./		McDep
	~		Prod/	Gas/	Reserves/	PV/	NG&O	Ratio
	Symbol/		Ebitda	Ebitda	Prod	Ebitda	Ebitda/	22-Mar
	Ra	ting	(%)	(%)	NTM	NTM	mcfe	2004
Short Life								
Spinnaker Exploration Company	SKE		100	81	4.5	4.7	5.02	1.20
Energy Partners Ltd.	EPL		100	62	5.1	5.1	3.80	0.68
PetroKazakhstan Inc.	PKZ		61	-	5.1	5.0	1.27	0.67
Newfield Exploration Company	NFX		100	85	5.2	5.2	4.04	0.76
The Houston Exploraton Company	THX		100	92	5.6	4.5	4.17	0.80
Cimarex Energy Company	XEC	b	100	76	6.2	6.2	3.87	0.72
St. Mary Land and Exploration Company	y SM		100	66	6.8	5.9	3.56	0.69
Stone Energy Company	SGY		100	66	7.1	6.0	4.23	0.73
Chesapeake Energy Corporation	CHK		100	90	7.8	6.4	4.09	0.66
Westport Resources Corporation	WRC		100	72	7.8	6.4	4.33	0.65
Western Gas Resources	WGR		63	63	7.9	9.3	2.77	0.99
Forest Oil Corporation	FST		100	77	7.9	5.9	4.08	0.60
Denbury Resources Inc.	DNR		100	47	8.2	6.6	3.55	0.70
Southwestern Energy Company	SWN		90	75	8.4	6.9	3.99	0.84
Range Resources Corporation	RRC		100	78	8.6	6.9	4.39	0.60
Median				75	7.1	6.0	4.04	0.70
Long Life								
Penn Virginia Corporation	PVA		78	64	9.4	7.3	2.47	0.84
Unit Corporation	UNT		67	58	10.0	7.7	3.78	1.08
Magnum Hunter Resources, Inc.	MHR		100	69	10.0	7.4	3.61	0.65
Whiting Petroleum Corporation	WLL		100	59	10.2	7.6	3.28	0.63
Swift Energy Company	SFY		100	31	11.1	8.0	2.84	0.70
Encore Acquisition Corp.	EAC	b	100	25	12.4	8.6	3.73	0.65
Ultra Petroleum Corp.	UPL		100	96	13.1	11.9	4.01	1.18
Vintage Petroleum, Inc.	VPI		100	29	13.9	6.7	2.65	0.60
Berry Petroleum Company	BRY	b	100	-	14.6	9.6	2.61	0.65
Quicksilver Resources Inc.	KWK		100	87	18.9	12.1	3.05	0.82
Evergreen Resources, Inc.	EVG		100	100	19.0	12.0	3.81	0.60
Median				59	12.4	8.0	3.28	0.65
Micro Cap								
Purcell Energy, Ltd. (US\$)	PEL.TO		100	78	6.4	5.9	2.01	0.76
Abraxas Petroleum Corporation	ABP		100	77	11.7	11.0	3.01	1.18