

Analysis of Oil & Gas Stocks January 13, 2012

Lost Winter for Natural Gas

Summary and Recommendation

Lower stock prices in the face of warm winter weather trigger the qualification of **Birchcliff Energy (BIREF)** and **Range Resources (RRC)** as Contrarian-Buys at low McDep Ratios of 0.81 in each case (see <u>Tables ISC-1 to ISC-4</u> on pages 6-9). The contrarian qualifier is automatic for a buy recommendation when stock price is below the 200-day average, a popular measure of price momentum. In fact, all seven of our income and small cap buy recommendations are in the contrarian category. As a result, investors with a longer time horizon may be attracted by lower McDep Ratio, while investors looking for quicker action may seek it elsewhere. Beyond the current winter, high-growth natural gas producers like BIR and RRC are contributing increasing supply of economical clean fuel to the combined benefit of consumers, producers and the North American economy. Meanwhile, oil concentration estimated at 44% for BIR and 34% for RRC cushions the impact of low current natural gas price. The better performance of oil the past few years has offset natural gas weakness in a balanced portfolio. Representation in both fuels is a time-tested strategy that has worked for companies and investors when surprises occur.

Natural Gas Price Weakens

Unlike most stock market and commodity prices that declined with the financial panic in 2008, natural gas price has continued to decline (see chart <u>Natural Gas Futures</u> on page 3). Moreover the rate of decline accelerated in recent months, weeks and days. Lower price has stimulated record demand growth to take advantage of expanded supply from shale gas. Even those gains have not been enough to offset the absence of normal winter cold at the beginning of the 2011-2012 winter peak season.

Making their own price forecast, U.S. Energy Information Administration (EIA) analysts usually pick a base case near the futures market. To be realistic and recognize that the future often unfolds differently, the EIA adds wide confidence limits, which suggest that the forecast price of little more than \$4 two years from now could be as low as \$2 and as high as \$8 (see chart Henry Hub Natural Gas Price on page 4). In other words, only the market is smart enough to find the price that reflects the dynamic balancing of demand and supply.

Demand Growing

U.S. natural gas consumption grew 1.8 billion cubic feet daily (bcfd), or 2.7%, to an estimated 66.9 bcfd in 2011. Gains were largest in the power and industrial sectors (see chart <u>U.S. Natural Gas Consumption</u> on page 4). While consumption hovers near 60 bcfd most of the year, it reaches 90 bcfd in winter.



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Supply in the U.S. Growing Faster

EIA emphasizes that U.S. marketed production grew 4.5 bcfd, or 7.4%, in 2011 for the largest one-year volume increase in history (see chart <u>U.S. Natural Gas Production and Imports</u> on page 5). To make way for the shale gas that drove that increase, both pipeline imports from Canada and liquefied imports from overseas were reduced and storage increased.

Storage at Seasonal High

Storage statistics are the most sensitive measure of supply and demand balance after price. Lack of normal winter demand because of warm weather contributed to the total of natural gas in seasonal storage breaking out above the five year range in December. In 2012, the weekly statistics are setting a new upper bound for that range (see chart Working Gas in Underground Storage on the last page where we have regularly reproduced it). Unpredictable wiggles in the storage line as the season progresses seem to have magnified impact on near-term price.

Nearly Unlimited Demand

While it has been difficult for demand to expand fast enough on a short-term basis to absorb all the new supply from the recent technological breakthrough in shale gas, on a long-term basis natural gas has strong growth potential from increasing its 25% share of North American energy (see slide <u>Vast Displacement Potential for Natural Gas</u> on page 5). As much coal is used for power generation as all of current natural gas production. As much oil is used in the transportation market as all of current natural gas production.

Power

The recent decline in near-month natural gas futures price opens a wide segment of the coal market for displacement. Electric utilities paid a median \$2.60 a million Btu for coal and \$4.70 for natural gas during the first nine months of 2011 according to our interpretation of EIA data. The range for coal of \$0.60 to \$7.50 overlapped the range for natural gas of \$2.20 to more than \$10.00. The coal price does not include incremental costs of pollution reduction. While natural gas has been increasing its share within those price ranges it could gain more considering that natural gas price has declined a third since then. The capacity is already in place to use more natural gas in power generation.

Transport

The transportation fuel equivalent of \$2.77 natural gas is about \$0.40 a gallon. Add \$1 a gallon for transmission and distribution and the cost of natural gas as a transportation fuel is less than half the cost of gasoline or diesel. A fleet owner converting delivery trucks that use 12,000 gallons a year to natural gas would save \$50,000 or more in two years to cover the cost of conversion and generate savings after that.



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Industrial

Cheap natural gas helped the U.S. petrochemical and fertilizer industries to become world leaders forty years ago. It is happening again with mothballed fertilizer plants restarting and plans being made to build new petrochemical capacity to take advantage of low cost fuel and low cost feedstock from the associated liquids produced with natural gas. Newly inexpensive energy and the ready availability of labor can be the basis for an industrial renaissance.

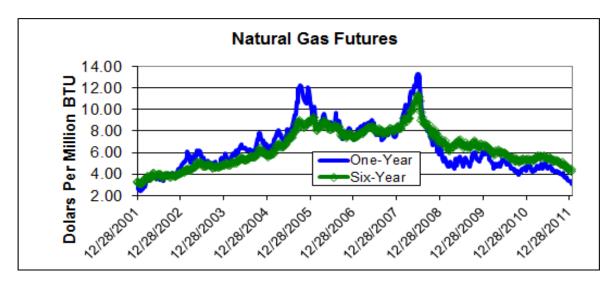
Exports

A widening differential between natural gas price and oil price raises the attractiveness of export projects. The proposed Kitimat, British Columbia, Liquefied Natural Gas terminal and liquefaction plant may get a Final Investment Decision in the current quarter. LNG is priced in Asia near the price of oil. Plans are also in the works to enable export of domestic gas through U.S. terminals originally built to receive imports.

Abundant Low Cost Supply

While demand expands to catch supply, the shale gas boom is slowing in response to price. At the same time, some natural gas drilling is driven by the need to hold a lease by completing a minimum number of wells to fulfill the terms, particularly in the newer plays like the Marcellus shale in Appalachia. Moreover, that drilling might be financed by an overseas major company partner eager to learn the technology. There is also a backlog of wells drilled, but not yet completed or connected. Finally, an oil shale boom in response to higher oil price is also contributing new gas supply as a byproduct.

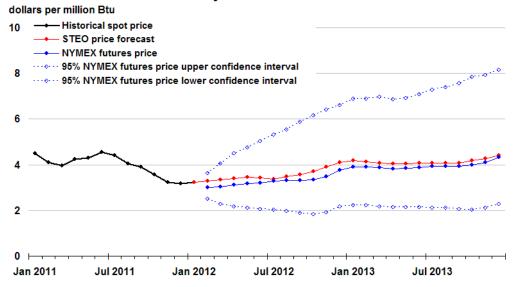
Kurt H. Wulff, CFA





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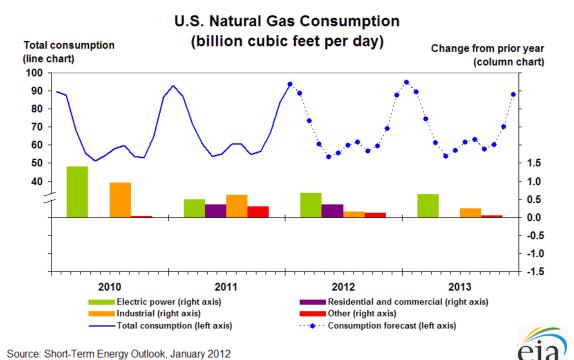
Henry Hub Natural Gas Price



Note: Confidence interval derived from options market information for the 5 trading days ending January 5, 2012 Intervals not calculated for months with sparse trading in "near-the-money" options contracts

Source: Short-Term Energy Outlook, January 2012

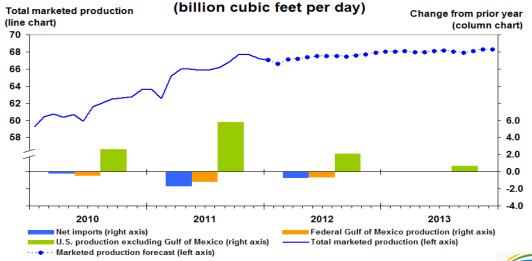






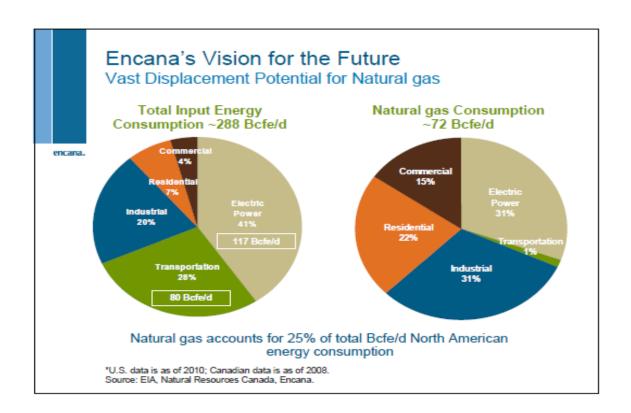
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U.S. Natural Gas Production and Imports



Source: Short-Term Energy Outlook, January 2012







MCDEP Income and Small Cap Weekly Analysis of Oil & Gas Stocks

mei	ing Buy	Price (US\$/sh) 12-Jan 2012 31.29 20.82 54.36 12.35 45.23	EV/ Market Cap 1.74 1.19 1.25	Enterprise Value (\$mm) 1,280 3,310 10,840		cDe] 26) Oil 43		Dist. NTM (\$/un)	Dist. Yield (%)	McDep Ratio
I/Ration B = I to be be local ETD EYUF RC IREF RY NR TLL	ing Buy ow) CB	Price (US\$/sh) 12-Jan 2012 31.29 20.82 54.36 12.35 45.23	EV/ Market Cap 1.74 1.19 1.25	Enterprise Value (\$mm) 1,280 3,310	PV(S) Nat Gas	cDe] 26) Oil 43	EV/ Ebitda NTM	Dist.	Yield	
l/Ration B = I is e below ETD EYUF RC IREF RY NR TLL	ing Buy ow) CB	Price (US\$/sh) 12-Jan 2012 31.29 20.82 54.36 12.35 45.23	EV/ Market Cap 1.74 1.19 1.25	Enterprise Value (\$mm) 1,280 3,310	PV(S) Nat Gas	%) Oil	EV/ Ebitda NTM	Dist.	Yield	
B = I e belo EYUF RC IREF RY NR	Buy ow) CB CB	(US\$/sh) 12-Jan 2012 31.29 20.82 54.36 12.35 45.23	Market Cap 1.74 1.19 1.25	Value (\$mm) 1,280 3,310	Nat Gas	Oil 43	Ebitda NTM	NTM	Yield	
B = I e belo EYUF RC IREF RY NR	Buy ow) CB CB	(US\$/sh) 12-Jan 2012 31.29 20.82 54.36 12.35 45.23	Market Cap 1.74 1.19 1.25	Value (\$mm) 1,280 3,310	Nat Gas	Oil 43	Ebitda NTM	NTM	Yield	
B = I e belo EYUF RC IREF RY NR	Buy ow) CB CB	31.29 20.82 54.36 12.35 45.23	Market Cap 1.74 1.19 1.25	Value (\$mm) 1,280 3,310	Nat Gas	Oil 43	Ebitda NTM	NTM	Yield	
ETD EYUF RC IREF RY NR	CB CB	31.29 20.82 54.36 12.35 45.23	1.74 1.19 1.25	(\$mm) 1,280 3,310	Gas 57	43	NTM			
ETD EYUF RC IREF RY NR	CB CB	31.29 20.82 54.36 12.35 45.23	1.74 1.19 1.25	1,280 3,310	57	43		(\$/un)	(%)	Ratio
EYUF RC IREF RY NR 'LL	CB CB	20.82 54.36 12.35 45.23	1.19 1.25	3,310			7.0			
EYUF RC IREF RY NR 'LL	CB CB	20.82 54.36 12.35 45.23	1.19 1.25	3,310			70			
RC IREF RY NR 'LL	CB CB	54.36 12.35 45.23	1.25	3,310	75		1.7	-	-	0.92
RC IREF RY NR 'LL	CB CB	54.36 12.35 45.23	1.25			25	11.0	0.71	3.4	0.89
REF RY NR 'LL	СВ	12.35 45.23		10.040	66	34	14.3	0.16	0.3	0.81
RY NR 'LL		45.23	1.25	2,030	56	44	12.3	-	-	0.81
NR 'LL	СВ		1.58	3,910	17	83	6.1	0.32	0.7	0.74
LL	СВ	17.63	1.35	9,590	4	96	6.0	-	-	0.70
			1.27	7,600	9	91	4.4	-	-	0.63
	CB		1.14	6,000	41	59	4.8	0.40	0.7	0.59
				44,600			7.0			0.78
	Н									
RT		47.33	1.00	280	87	13		2.57	5.4	1.08
										0.99
										0.97
										0.97
										0.92
IVILI	СВ	22.30	1.00		31	43		1.70		0.83
				4,000					7.0	0.97
NE		35.95	1.47	9,290	29	71	13.3		7.7	1.13
NR		27.77	1.54	2,080	26	74	10.2	2.31	8.3	1.07
T	CB		1.00	980	100	-	15.5	1.02	4.9	1.00
GCY		28.93	1.41	1,770	19	81	8.6	2.18	7.5	0.97
DRO		20.38	1.00	270	45	55	8.6	1.66	8.1	0.97
GT		15.75	1.00	630	87	13	15.1	0.91	5.8	0.93
TR		39.75	1.00	74	75	25	11.0	3.18	8.0	0.83
RF	CB	24.22	1.30	5,700	26	74	7.4	2.12	8.8	0.74
				20,800			10.6		7.8	0.97
	Н									
				69,400	35	65				0.79
					47	53				0.88
					41	59				0.76
rently	in d	lowntrend	compared	to 200-day a	verage.					
	BT BR BHLP NE NR T GCY DRO GT TR R F ently o pre m pri	BT BR BHLF CB	BT 19.75 BR 62.91 BHLF 19.18 MLP CB 22.50 NE 35.95 NR 27.77 T CB 20.94 BCY 28.93 DRO 20.38 BT 15.75 TR 39.75 BF CB 24.22 ently in downtrend of present value of om prices of \$100 at 100.000.0000.0000000000000000000000000	BT 19.75 1.00 BR 62.91 1.00 BHLF 19.18 1.06 MLP CB 22.50 1.00 NE 35.95 1.47 NR 27.77 1.54 T CB 20.94 1.00 GCY 28.93 1.41 DRO 20.38 1.00 GT 15.75 1.00 TR 39.75 1.00 BF CB 24.22 1.30 ently in downtrend compared to present value of oil and gas m prices of \$100 a barrel for	BT 19.75 1.00 920 BR 62.91 1.00 920 BHLF 19.18 1.06 1,190 MLP CB 22.50 1.00 690 NE 35.95 1.47 9,290 NR 27.77 1.54 2,080 T CB 20.94 1.00 980 BCY 28.93 1.41 1,770 BCO 20.38 1.00 270 BT 15.75 1.00 630 TR 39.75 1.00 74 BF CB 24.22 1.30 5,700 CO 20.80 CO 20.	RT 19.75 1.00 920 37 RR 62.91 1.00 920 55 RHLF 19.18 1.06 1,190 14 MLP CB 22.50 1.00 690 57 A,000 NE 35.95 1.47 9,290 29 NR 27.77 1.54 2,080 26 T CB 20.94 1.00 980 100 GCY 28.93 1.41 1,770 19 DRO 20.38 1.00 270 45 GT 15.75 1.00 630 87 TR 39.75 1.00 74 75 RF CB 24.22 1.30 5,700 26 69,400 35 ently in downtrend compared to 200-day average. or present value of oil and gas and other businesses in prices of \$100 a barrel for oil and \$6 a million	RT 19.75 1.00 920 37 63 RR 62.91 1.00 920 55 45 RHLF 19.18 1.06 1,190 14 86 MLP CB 22.50 1.00 690 57 43 NE 35.95 1.47 9,290 29 71 NR 27.77 1.54 2,080 26 74 T CB 20.94 1.00 980 100 - GCY 28.93 1.41 1,770 19 81 ORO 20.38 1.00 270 45 55 GT 15.75 1.00 630 87 13 TR 39.75 1.00 74 75 25 RF CB 24.22 1.30 5,700 26 74 20,800 ently in downtrend compared to 200-day average. To present value of oil and gas and other businesses. The prices of \$100 a barrel for oil and \$6 a million btu for	RT	RT	ST 19.75 1.00 920 37 63 1.50 7.6 SR 62.91 1.00 920 55 45 4.01 6.4 CHLF 19.18 1.06 1,190 14 86 1.65 8.6 MLP CB 22.50 1.00 690 57 43 1.76 7.8 NE 35.95 1.47 9,290 29 71 13.3 2.76 7.7 NR 27.77 1.54 2,080 26 74 10.2 2.31 8.3 T CB 20.94 1.00 980 100 - 15.5 1.02 4.9 GCY 28.93 1.41 1,770 19 81 8.6 2.18 7.5 DRO 20.38 1.00 270 45 55 8.6 1.66 8.1 GT 15.75 1.00 630 87 13 15.1 0.91 5.8



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		Tab	le ISC-2					
McDep Inc	ome an	d Sı	mall Ca	p Ener	gy Port	folio		
Net P	resent `	Valu	e and l	McDep	Ratio			
			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbol/		12-Jan	Shares	Cap	Value	Present	McDep
	Ra	ting	2012	(mm)	(\$mm)	(\$/un)	Value	Ratio
Small Cap Independent Producers								
PDC Energy	PETD		31.29	23.8	740	36.00	0.39	0.92
Peyto Exploration and Development Cor			20.82	133.1	2,770	24.00	0.14	0.89
Range Resources	RRC	СВ	54.36	159.0	8,640	70.00	0.17	0.81
Birchcliff Energy Ltd.	BIREF	CB	12.35	131.0	1,620	16.00	0.16	0.81
Berry Petroleum Company	BRY	CD	45.23	54.7	2,470	70.00	0.27	0.74
Denbury Resources Inc.	DNR		17.63	403.0	7,100	28.00	0.18	0.70
Whiting Petroleum Corporation	WLL	CB	50.31	119.0	5,990	88.00	0.13	0.63
Cimarex Energy Company	XEC	CB	60.80	86.2	5,240	110.00	0.07	0.59
Total or Median					34,570		0.16	0.78
Top Line Cash Payers								
Cross Timbers Royalty Trust	CRT		47.33	6.0	280	44.00	_	1.08
Permian Basin RT	PBT		19.75	46.6	920	20.00	_	0.99
Sabine Royalty Trust	SBR		62.91	14.6	920	65.00	_	0.99
Freehold Royalties Ltd.	FRHLF		19.18	58.8	1,130	21.00	0.05	0.97
Dorchester Minerals, L.P.	DMLP	СВ	22.50	30.7	690	27.00	0.03	0.92
Total or Median	DIVILI	СБ	22.30	30.7	3,940	27.00	-	0.83
Total of incular					5,710			0.57
Bottom Line Cash Payers								
Linn Energy, LLC	LINE		35.95	176.0	6,330	30.00	0.36	1.13
Vanguard Natural Resources, LLC	VNR		27.77	48.8	1,360	25.00	0.37	1.07
San Juan Basin Royalty Trust	SJT	CB	20.94	46.6	980	21.00	-	1.00
Legacy Reserves L.P.	LGCY		28.93	43.6	1,260	30.00	0.28	0.97
Enduro Royalty Trust (40%)	NDRO		20.38	13.2	270	21.00	-	0.97
Hugoton RoyaltyTrust	HGT		15.75	40.0	630	17.00	-	0.93
Mesa RoyaltyTrust	MTR		39.75	1.9	74	48.00	-	0.83
Enerplus Corporation	ERF	CB	24.22	180.6	4,370	35.00	0.17	0.74
Total or Median					15,270			0.97
B=Buy; CB=Contrarian Buy, Stock Price	 e apparent]	ly in d	owntrend	compared	to 200-day	/ average		
McDep Ratio = Market cap and Debt to								
Present Value presumes long-term price							gas	



MCDEP Income and Small Cap Weekly Analysis of Oil & Gas Stocks

		Tab	le ISC-3	3				
McDep Inco	ome an	d S	mall C	ap Enei	rgy Por	tfolio		
Value	Multip	les ·	Rank	by EV/	Ebitda			
, 0.200				. ~ <i>j = \\</i>				
			Price			Adjstd		
			(\$/sh)	Revenue	Dist/	Resrvs/	PV/	EV/
	Symbol/		12-Jan	Royalty	Equity	Prod	Ebitda	Ebitda
	Rai	ting	2012	(%)	Ebitda	NTM	NTM	NTM
Small Cap Independent Producers								
Range Resources	RRC	СВ	54.36		-	14.0	17.6	14.3
Birchcliff Energy Ltd.	BIREF	CB	12.35		_	19.3	15.2	12.3
Peyto Exploration and Development Corp		CD	20.82		0.37	12.9	12.4	11.0
PDC Energy	PETD		31.29		-	8.1	8.6	7.9
Berry Petroleum Company	BRY		45.23		_	11.4	8.2	6.1
Denbury Resources Inc.	DNR		17.63		_	12.6	8.6	6.0
Cimarex Energy Company	XEC	СВ	60.80		_	6.9	8.2	4.8
Whiting Petroleum Corporation	WLL	CB	50.31		_	8.5	7.1	4.4
Median	WEE	CD	30.31			12.0	8.6	7.0
Top Line Cash Payers								
Cross Timbers Royalty Trust	CRT		47.33	80	0.96	14.1	16.5	17.7
Sabine Royalty Trust	SBR		62.91	100	1.00	7.3	16.2	15.7
Permian Basin RT	PBT		19.75	32	0.98	17.2	13.1	12.9
Dorchester Minerals, L.P.	DMLP	CB	22.50	77	0.84	6.1	12.9	10.7
Freehold Royalties Ltd.	FRHLF		19.18	71	0.84	6.7	10.7	9.8
Median						7.3	13.1	12.9
Bottom Line Cash Payers								
San Juan Basin Royalty Trust	SJT	CB	20.94		0.75	8.5	15.5	15.5
Hugoton RoyaltyTrust	HGT		15.75		0.87	14.0	16.3	15.1
Linn Energy, LLC	LINE		35.95		1.09	16.2	11.8	13.3
Mesa RoyaltyTrust	MTR		39.75		0.88	13.9	13.3	11.0
Vanguard Natural Resources, LLC	VNR		27.77		0.88	8.7	9.6	10.2
Legacy Reserves L.P.	LGCY		28.93		0.64	9.9	8.8	8.6
Enduro Royalty Trust (40%)	NDRO		20.38		0.70	6.6	8.9	8.6
Enerplus Corporation	ERF	СВ	24.22		0.61	8.4	10.0	7.4
Median						9.3	10.9	10.6
B=Buy; CB=Contrarian Buy, Stock Price	annarant1	v in d	ountrard	Loompored	to 200 da	V OVOTOGO		
EV = Enterprise Value = Market Cap and							.n	
							011	
and amortization; NTM = Next Twelve M				51, 2012; P	7E = Sloc	k Price to		
Earnings; PV = Present Value of oil and a Top Line Cash Payers defined as those has				C' C.1	1			



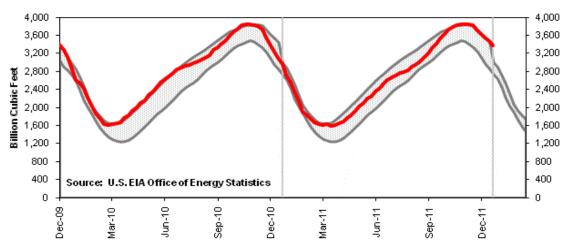
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		Tal	ble ISC-4	ı				
Oil and (Gas Inc	om	e and S	Small C	Cap Stoc	ks		
Rank by E	nterpr	ise V	Value t	o 200 I	Day Ave	rage		
·	_							
			Price					
			(\$/sh)					
	Symbol/		12-Jan	52Wk	52Wk	50 Day	200 Day	McDep
	Ra	ing	2012	High	Low	Avg.	Avg.	Ratio
Small Cap Independent Producers								
Denbury Resources Inc.	DNR		17.63	0.74	1.45	1.07	1.00	0.70
PDC Energy	PETD		31.29	0.74	1.42	0.96	0.99	0.92
Berry Petroleum Company	BRY		45.23	0.82	1.26	1.07	0.98	0.74
Whiting Petroleum Corporation	WLL	CB	50.31	0.71	1.51	1.05	0.96	0.63
Peyto Exploration and Development C	PEYUF		20.82	0.83	1.15	0.91	0.96	0.89
Birchcliff Energy Ltd.	BIREF	CB	12.35	0.83	1.23	0.92	0.95	0.81
Range Resources	RRC	CB	54.36	0.75	1.16	0.86	0.92	0.81
Cimarex Energy Company	XEC	CB	60.80	0.55	1.17	0.96	0.80	0.59
Median				0.75	1.24	0.96	0.96	0.78
Top Line Cash Payers								
Cross Timbers Royalty Trust	CRT		47.33	0.93	1.25	0.98	1.05	1.08
Sabine Royalty Trust	SBR		62.91	0.89	1.33	0.97	0.98	0.97
Freehold Royalties Ltd.	FRHLF		19.18	0.80	1.37	1.03	0.97	0.92
Permian Basin RT	PBT		19.75	0.84	1.10	0.98	0.94	0.99
Dorchester Minerals, L.P.	DMLP	CB	22.50	0.75	1.08	0.97	0.88	0.83
Median				0.84	1.25	0.98	0.97	0.97
Bottom Line Cash Payers								
Legacy Reserves L.P.	LGCY		28.93	0.89	1.21	1.03	1.01	0.97
Vanguard Natural Resources, LLC	VNR		27.77	0.88	1.16	1.01	0.99	1.07
Linn Energy, LLC	LINE		35.95	0.91	1.10	0.98	0.97	1.13
Mesa RoyaltyTrust	MTR		39.75	0.79	1.02	0.93	0.89	0.83
Enerplus Corporation	ERF	CB	24.22	0.78	1.09	0.95	0.88	0.74
San Juan Basin Royalty Trust	SJT	CB	20.94	0.75	1.03	0.89	0.87	1.00
Hugoton RoyaltyTrust	HGT		15.75	0.64	1.00	0.77	0.72	0.93
Median				0.79	1.09	0.95	0.89	0.97
CB=Contrarian Buy, Stock Price appar	ently in de	wnfr	end comp	ared to 20	0-day avera	ge		



Analysis of Oil & Gas Stocks January 13, 2012

Working Gas in Underground Storage Compared with 5-Year Range



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.

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