

CDEP Income and Small Cap Weekly

Analysis of Oil & Gas Stocks July 8, 2011

Shale Strategy II

Summary and Recommendation

Seven small cap oil and gas buy recommendations appear well-positioned to grow volume by applying new technology and to benefit from potentially exciting price developments during the next eighteen months of polarized politics leading up to a presidential election. Buyrecommended Cimarex (XEC) readily qualifies as a shale play with its Oklahoma Cana activity along with the six stocks emphasized last week: Whiting (WLL) and Enerplus (ERF) in the Bakken formation; Petrohawk (HK) in the Eagle Ford; Birchcliff (BIREF) in the Alberta Montney; Range Resources (RRC) in the Marcellus and Dorchester Minerals (DMLP) in the Fayetteville. In addition to offering volume growth, the companies may see big price moves as we approach the November 2012 election. Forces are at play similar to those 32 years ago when stock prices tripled for small caps in our continuous coverage. Using more modest expectations, we attempt to capture the dynamics of volume and price in our estimates of present value, which lead to ranking by McDep Ratio (see Table ISC-1 and Table ISC-3 on pages 3-4). The amount of future value we are willing to count is restrained by near term cash flow reflected in ranking by EV/Ebitda (see <u>Table ISC-3</u> on pages 5). Meanwhile oil price, the main indicator of industry conditions, is in a rising trend with the recent settlement of six-year futures at \$103 a barrel compared to the 40-week average of \$96. Six-year natural gas at \$5.35 trades near the 40-week average of \$5.40 a million btu.

More than Shale

Shale strategy is a convenient name for our small cap oil and gas producer growth strategy. Shale rock traditionally has contained oil and gas that would not flow in quantities large enough to be commercial. Apparently over eons of time some of the oil and gas has migrated from the shale rock to be trapped in sandstone and other rocks. When the most susceptible concentrations were tapped, oil and gas would flow to the surface.

While geologists can determine where oil and gas may be found, engineers develop the techniques of production. More of the riches of shale rock identified by geologists can now be produced economically with the advanced engineering of horizontal drilling with multi-stage fracturing. The same techniques lead to big wells and growing volume in mixed shale, sandstone and carbonate formations, too.

The future potential of all of a company's oil and gas resources makes up our estimate of present value, which is the amount a buyer would pay for a company's properties to capture a return on investment of 7% a year after adjustment for inflation. Cash flow from producing wells can be projected in straight forward fashion while cash flow from undeveloped and probable reserves is more subjective. First year cash flow and the multiple of present value to first year cash flow capture the major variables in convenient fashion. The multiple varies approximately with adjusted reserve life. The multiple is also higher for natural gas in the anticipation that the steep



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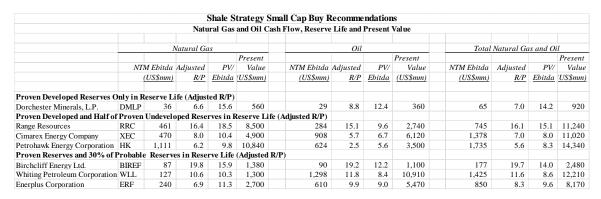
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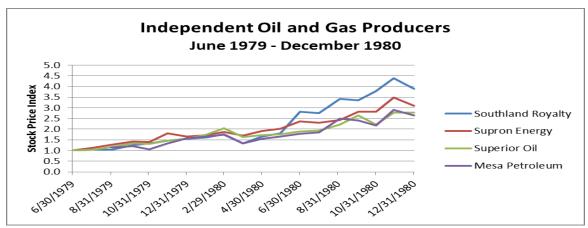
discount for natural gas price compared to oil price will narrow in the future (see table below Natural Gas and Oil Cash Flow, Reserve Life and Present Value). We update first year cash flow for oil and gas price weekly, update volume at least quarterly and reserves at least annually.

Big Picture May Present Big Opportunity

Socialist-oriented political leadership attempting to manipulate market conditions may ultimately be overwhelmed by pressures that refuse to be contained. President Obama's attempt last month to depress oil price with government oil from storage is reminiscent of President Carter's plan to enforce price controls by rationing gasoline. The last eighteen months of President Carter's term were the most rewarding period for small cap oil and gas stocks on top of a long decade of benefiting from the foibles of Republican and Democratic energy and economic policy (see chart below Independent Oil and Gas Producers, June 1979 – December 1980). Our buys and comparable companies are positioned to participate in price should similar gains recur, and in volume should more moderate prices prevail.

Kurt H. Wulff, CFA





Source: DLJ Oil & Gas Valuation



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				Table IS							
McI	Dep In	co	me and	l Small	Cap Ene	rgy I	Portf	olio			
Debt, S	egmei	ıts	, Cash l	Flow, I	ncome ai	nd M	cDe	p Ratio	0		
•											
c	1 1/D (Price	F17/	F	DI //	0 <)	F17/	D: /	D: .	
Sym			(US\$/sh)	EV/	Enterprise	PV(<u>%)</u>	EV/	Dist.	Dist.	14.0
CD	$\mathbf{B} = \mathbf{I}$			Market	Value	Nat	0.1	Ebitda	NTM	Yield	McDe
СВ	(see belo	OW)	2011	Сар	(\$mm)	Gas	Oil	NTM	(\$/un)	(%)	Rati
Small Cap Independent Producer	rs										
Peyto Exploration and Developmen			23.03	1.22	3,730	71	29	11.4	0.74	3.2	0.97
Range Resources	RRC	В	57.08	1.20	10,780	76	24	14.5	0.16	0.3	0.96
Berry Petroleum Company	BRY		55.62	1.47	4,420	26	74	9.3	0.30	0.5	0.95
Birchcliff Energy Ltd.	BIREF	В	14.18	1.22	2,240	56	44	12.6	-	-	0.90
Denbury Resources Inc.	DNR		20.41	1.29	10,430	6	94	8.0	-	-	0.85
Petrohawk Energy Corporation	HK	В	25.12	1.52	11,630	76	24	6.7	-	-	0.81
Cimarex Energy Company	XEC	CE		1.09	8,350	44	56	6.1	0.40	0.5	0.76
Whiting Petroleum Corporation	WLL	В	59.54	1.23	8,620	11	89	6.1	-	-	0.71
Total or Median		_	67.6.	1,20	60,200			8.7			0.88
Total of ficular					00,200			0.7			0.00
Top Line Cash Payers											
Permian Basin RT	PBT		22.42	1.00	1,050	42	58		1.72	7.7	1.02
Cross Timbers Royalty Trust	CRT		45.54	1.00	270	87	13		2.77	6.1	1.01
Sabine Royalty Trust	SBR		66.49	1.00	970	51	49		4.95	7.4	0.95
Freehold Royalties Ltd.	FRHLF		20.79	1.07	1,290	18	82		1.75	8.4	0.95
Dorchester Minerals, L.P.	DMLP	В	27.71	1.00	850	61	39		1.84	6.6	0.92
Total or Median					4,400					7.4	0.95
D											
Bottom Line Cash Payers	1 D TD		20.50	1.40	0.020	2.5		100	2 - 1		
Linn Energy, LLC	LINE		39.50	1.40	9,030	35	65	13.3	2.64	6.7	1.11
Vanguard Natural Resources, LLC	VNR		29.27	1.67	1,670	26	74	12.8	2.28	7.8	1.05
Legacy Reserves L.P.	LGCY	_	29.96	1.41	1,840	19	81	10.7	2.12	7.1	1.05
Hugoton RoyaltyTrust	HGT	В	22.88	1.00	920	88	13	12.8	1.56	6.8	1.04
San Juan Basin Royalty Trust	SJT		25.19	1.00	1,170	100	-	13.1	1.61	6.4	1.01
Encore Energy Partners, L.P.	ENP	_	21.92	1.30	1,300	17	83	10.3	1.96	8.9	0.96
Enerplus Corporation	ERF	В	31.83	1.27	7,300	33	67	8.5	2.25	7.1	0.89
Mesa RoyaltyTrust	MTR		45.38	1.00	85	75	25	12.4	3.04	6.7	0.86
Total or Median					23,300			12.6		6.9	1.02
Composite											
Enterprise Value Weighting					87,900	43	57				0.88
Equal Weighting					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	48	52				0.94
Equal Weighted Buys						52	48				0.87
· · · ·											
CB=Contrarian Buy, Stock Price ap											
McDep Ratio = \mathbf{M} arket \mathbf{c} ap and $\mathbf{D}\mathbf{e}$											
Present Value (PV) presumes long-	term pri	ces	of \$100 a	barrel for	oil and \$8 a i	million	btu for	r natural s	as.		

Please see disclosures on the final page.



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		Tabl	e ISC-2					
McDep Inco	ome an	d Sn	nall Ca	p Ener	gy Port	folio		
Net P	resent \	Valu	e and I	McDep	Ratio			
			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbol/		7-Jul	Shares	Cap	Value	Present	McDep
	Ra	ting	2011	(mm)	(\$mm)	(\$/un)	Value	Ratio
Small Cap Independent Producers								
Peyto Exploration and Development Con	PEYUF		23.03	132.7	3,060	24.00	0.17	0.97
Range Resources	RRC	В	57.08	158.0	9,020	60.00	0.16	0.96
Berry Petroleum Company	BRY		55.62	54.0	3,000	60.00	0.30	0.95
Birchcliff Energy Ltd.	BIREF	В	14.18	130.0	1,840	16.00	0.16	0.90
Denbury Resources Inc.	DNR		20.41	397.0	8,100	25.00	0.19	0.85
Petrohawk Energy Corporation	HK	В	25.12	305.0	7,660	34.00	0.28	0.81
Cimarex Energy Company	XEC	СВ	88.57	86.1	7,630	120.00	0.06	0.76
Whiting Petroleum Corporation	WLL	В	59.54	118.0	7,030	90.00	0.13	0.71
Total or Median					47,340		0.17	0.88
m 11 G 1 D								
Top Line Cash Payers	DDE		22.42	100	1.050	22.00		1.00
Permian Basin RT	PBT		22.42	46.6	1,050	22.00	-	1.02
Cross Timbers Royalty Trust	CRT		45.54	6.0	270	45.00	-	1.01
Sabine Royalty Trust	SBR		66.49	14.6	970	70.00	-	0.95
Freehold Royalties Ltd.	FRHLF	- n	20.79	58.4	1,210	22.00	0.06	0.95
Dorchester Minerals, L.P.	DMLP	В	27.71	30.7	850	30.00	-	0.92
Total or Median					4,350			0.95
Bottom Line Cash Payers								
Linn Energy, LLC	LINE		39.50	163.0	6,440	34.00	0.32	1.11
Vanguard Natural Resources, LLC	VNR		29.27	34.2	1,000	27.00	0.42	1.05
Legacy Reserves L.P.	LGCY		29.96	43.5	1,300	28.00	0.31	1.05
Hugoton RoyaltyTrust	HGT	В	22.88	40.0	920	22.00	-	1.04
San Juan Basin Royalty Trust	SJT		25.19	46.6	1,170	25.00	-	1.01
Encore Energy Partners, L.P.	ENP		21.92	45.5	1,000	23.00	0.22	0.96
Enerplus Corporation	ERF	В	31.83	179.5	5,710	37.00	0.19	0.89
Mesa RoyaltyTrust	MTR		45.38	1.9	85	53.00	-	0.86
Total or Median					17,630			1.02
	L .				. 200 1			
B=Buy; CB=Contrarian Buy, Stock Price McDep Ratio = M arket c ap and De bt to								
Present Value presumes long-term price								



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		Tab	le ISC-3	3				
McDep Inco	ome an	d S	mall C	ap Enei	rgy Por	rtfolio		
Value	Multip	les ·	Rank	by EV/	Ebitda			
	_							
			Price			A 1:-4 1		
				Revenue	Dist/	Adjstd Resrvs/	PV/	EV/
	Symbol/		7-Jul	Royalty	Equity	Prod	Ebitda	Ebitda
		ing	2011	(%)	Ebitda	NTM	NTM	NTM
Small Cap Independent Producers								
Range Resources	RRC	В	57.08		-	16.1	15.1	14.5
Birchcliff Energy Ltd.	BIREF	В	14.18		-	19.7	14.0	12.6
Peyto Exploration and Development Corp			23.03		0.36	14.9	11.8	11.4
Berry Petroleum Company	BRY		55.62		-	12.0	9.8	9.3
Denbury Resources Inc.	DNR		20.41		-	13.6	9.4	8.0
Petrohawk Energy Corporation	HK	В	25.12		-	5.6	8.3	6.7
Cimarex Energy Company	XEC	CB	88.57		-	7.0	8.0	6.1
Whiting Petroleum Corporation	WLL	В	59.54		-	9.0	8.6	6.1
Median						12.8	9.6	8.7
Top Line Cash Payers								
Cross Timbers Royalty Trust	CRT		45.54	80	0.97	15.1	15.7	15.9
Sabine Royalty Trust	SBR		66.49	100	1.00	6.8	14.2	13.4
Dorchester Minerals, L.P.	DMLP	В	27.71	77	0.87	7.0	14.2	13.1
Permian Basin RT	PBT	ь	22.42	32	0.98	15.7	12.5	12.7
Freehold Royalties Ltd.	FRHLF		20.79	71	0.83	6.3	10.4	9.8
Median	TRILL		20.17	/ 1	0.03	7.0	14.2	13.1
1.120010010						7.0	1,,2	1011
Bottom Line Cash Payers								
Linn Energy, LLC	LINE		39.50		0.93	17.5	12.0	13.3
San Juan Basin Royalty Trust	SJT		25.19		0.84	9.2	13.0	13.1
Hugoton RoyaltyTrust	HGT	В	22.88		0.87	14.0	12.4	12.8
Vanguard Natural Resources, LLC	VNR		29.27		1.03	13.2	12.2	12.8
Mesa RoyaltyTrust	MTR		45.38		0.83	14.5	14.4	12.4
Legacy Reserves L.P.	LGCY		29.96		0.77	12.0	10.2	10.7
Encore Energy Partners, L.P.	ENP		21.92		0.91	13.1	10.7	10.3
Enerplus Corporation	ERF	В	31.83		0.59	8.3	9.6	8.5
Median .						13.2	12.1	12.6
B=Buy; CB=Contrarian Buy, Stock Price	annaranti	v in d	ountron	Laamparad	to 200 da	V OVOTOGO		
EV = Enterprise Value = Market Cap and							n	
and amortization; NTM = Next Twelve M							-	
Earnings; PV = Present Value of oil and g					JUGUN I IIC	- 10		
Top Line Cash Payers defined as those ha				ee fifth co	lumn from	n right)		



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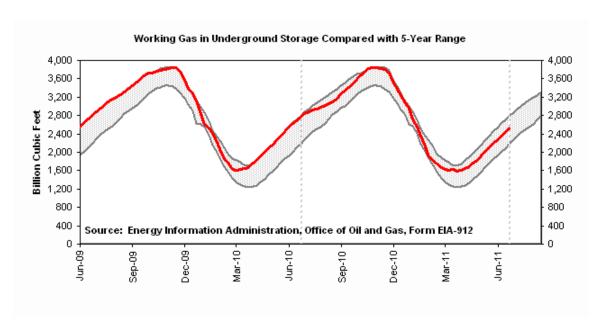
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Petrohawk Energy Corporation HK B 25.12 0.94 1.39 1.00 Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median 0.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	00 Day Avg. 1.22 1.17 1.16	McDep Ratio
Rank by Enterprise Value to 200 Day Average Price Symbol 7-Jul 52Wk 52Wk 50 Day 200	1.22 1.17	Ratio
Price Symbol 7-Jul 52Wk 50 Day 200	1.22 1.17	Ratio
Symbol Symbol T-Jul S2Wk S2Wk S0 Day 200	1.22 1.17	Ratio
Symbol 7-Jul 52Wk 52Wk 50 Day 200	1.22 1.17	Ratio
Small Cap Independent Producers Birchcliff Energy Ltd. BIREF B 14.18 0.98 1.60 1.05 Peyto Exploration and Development C PEYUF 23.03 0.99 1.59 1.07 Berry Petroleum Company BRY 55.62 0.99 1.60 1.08 Range Resources RRC B 57.08 0.96 1.57 1.05 Petrohawk Energy Corporation HK B 25.12 0.94 1.39 1.00 Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median	1.22 1.17	Ratio
Small Cap Independent Producers Birchcliff Energy Ltd. BIREF B 14.18 0.98 1.60 1.05 Peyto Exploration and Development C PEYUF 23.03 0.99 1.59 1.07 Berry Petroleum Company BRY 55.62 0.99 1.60 1.08 Range Resources RRC B 57.08 0.96 1.57 1.05 Petrohawk Energy Corporation HK B 25.12 0.94 1.39 1.00 Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median	1.22 1.17	Ratio
Birchcliff Energy Ltd. BIREF B 14.18 0.98 1.60 1.05 Peyto Exploration and Development C PEYUF 23.03 0.99 1.59 1.07 Berry Petroleum Company BRY 55.62 0.99 1.60 1.08 Range Resources RRC B 57.08 0.96 1.57 1.05 Petrohawk Energy Corporation HK B 25.12 0.94 1.39 1.00 Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median O.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian B	1.17	0.90
Birchcliff Energy Ltd. BIREF B 14.18 0.98 1.60 1.05 Peyto Exploration and Development C PEYUF 23.03 0.99 1.59 1.07 Berry Petroleum Company BRY 55.62 0.99 1.60 1.08 Range Resources RRC B 57.08 0.96 1.57 1.05 Petrohawk Energy Corporation HK B 25.12 0.94 1.39 1.00 Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median O.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian B	1.17	0.90
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Denbury Resources Inc. DNR 20.41 0.82 1.31 1.00 Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median 0.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.16	0.96
Whiting Petroleum Corporation WLL B 59.54 0.82 1.44 0.97 Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median 0.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.12	0.81
Cimarex Energy Company XEC CB 88.57 0.77 1.36 0.96 Median 0.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.01	0.85
Median 0.95 1.51 1.03 Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.00	0.71
Top Line Cash Payers Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	0.96	0.76
Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.14	0.88
Sabine Royalty Trust SBR 66.49 0.94 1.38 1.02 Cross Timbers Royalty Trust CRT 45.54 0.94 1.36 1.07 Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02		
Permian Basin RT PBT 22.42 0.94 1.25 1.07 Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.09	0.95
Dorchester Minerals, L.P. DMLP B 27.71 0.92 1.17 1.02 Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.08	1.01
Freehold Royalties Ltd. FRHLF 20.79 0.86 1.36 0.96 Median 0.94 1.36 1.02	1.05	1.02
Median 0.94 1.36 1.02	1.01	0.92
	1.00	0.95
	1.05	0.95
Bottom Line Cash Payers		
Hugoton RoyaltyTrust HGT B 22.88 0.93 1.27 1.02	1.06	1.04
Linn Energy, LLC LINE 39.50 0.98 1.30 1.02	1.04	1.11
Enerplus Corporation ERF B 31.83 0.96 1.34 1.02	1.04	0.89
Legacy Reserves L.P. LGCY 29.96 0.92 1.21 1.00	1.03	1.05
San Juan Basin Royalty Trust SJT 25.19 0.90 1.21 1.06	1.02	1.01
Encore Energy Partners, L.P. ENP 21.92 0.89 1.19 1.00	1.01	0.96
Vanguard Natural Resources, LLC VNR 29.27 0.92 1.22 1.00	1.01	1.05
Mesa RoyaltyTrust MTR 45.38 0.89 1.15 1.02	0.96	0.86
Median 0.92 1.22 1.02	1.03	1.02
CB=Contrarian Buy, Stock Price apparently in downtrend compared to 200-day average.		



Income and Small Cap Weekly

Analysis of Oil & Gas Stocks July 8, 2011



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