### When Will We See Sell Signals?

#### **Summary and Recommendation**

Amidst continuing good news for natural gas producers, there appears to be further upside eventually in stock price for units that offer an indicated distribution yield for the next twelve months around 13%. The main industry specific question boils down to whether six-year natural gas futures are a reasonable indication of what the actual trend in natural gas price will be. Our opinion for now is that a wider premium to oil would be reasonable and that six-year oil currently at about \$25 a barrel is cheap (see table below). Looking back over three years, estimated Next Twelve Months Distributions and estimated Present Value reached a cyclical peak in January 2001, four months before natural gas royalty trust stock prices peaked in May 2001 (see charts). We would be surprised if our estimates, which depend on natural gas futures, give a lead as long as four months on any possible future stock price decline from any new peak. Nonetheless, there is little sign of decline yet. Meanwhile even though there were some good trades to be made two years ago, those who held pat are looking all right, too.

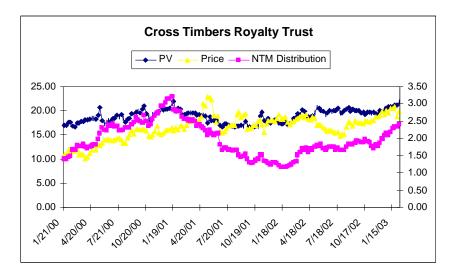
Kurt H. Wulff, CFA

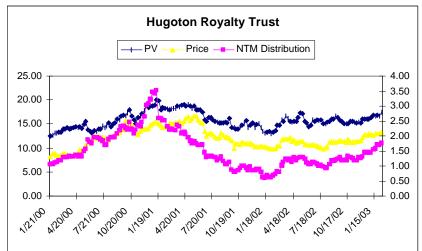
#### **Natural Gas and Oil Futures**

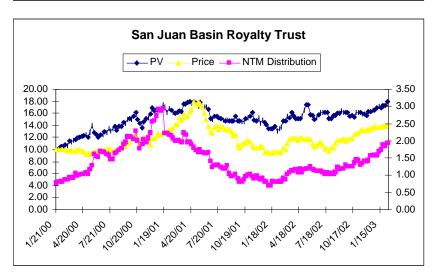
February 5, 2003										
	2004	2005	2006	2007	2008	2009	Six Year			
Natural Gas (\$/mmbtu) Year ending February	5.14	4.42	4.05	3.93	4.04	4.07	4.27			
Light Sweet Crude Oil (\$/bbl) Year ending February		25.12	24.03	23.83	23.68	23.60	25.03			
Natural Gas/Oil (6:1 = 1.0) Year ending February	1.03	1.06	1.01	0.99	1.02	1.03	1.02			

Source: Nymex, FutureSource, wsj.com, McDep Associates

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### Table MEII-1 McDep Energy Income Ideas Dividends, Debt and McDep Ratio

	Symbol/		Price (\$/sh) 5-Feb	Shares	Market Cap	Div or Distrib. NTM	Debt/ Present	МсДер
	Rat	ing	2003	(mm)	(\$mm)	(%)	Value	Ratio
High Greed Partnerships								
El Paso Energy Partners	EPN	S	31.36	57.0	1,790	8.6	0.64	2.65
Kinder Morgan Energy Partners, L.P.	KMP	S	35.31	141	4,980	7.1	0.47	1.80
Enbridge Energy Partners, L.P.	EEP	S	43.95	35.0	1,540	8.2	0.64	1.71
Kinder Morgan Management, LLC	KMR	S	31.81	39.5	1,260	7.9	0.47	1.67
Plains All Amer. Pipeline	PAA		24.75	50.0	1,240	8.7	0.49	1.58
Enbridge Energy Management, L.L.C	EEQ	S	38.00	9.0	340	9.5	0.64	1.56
Northern Border Partners	NBP		38.02	44.0	1,670	8.4	0.62	1.32
TEPPCO Partners, L.P.	TPP		29.42	50.0	1,470	8.2	0.56	1.29
Penn Virginia Res. Part, L.P.	PVR		23.00	15.3	350	8.7	-	1.28
AmeriGas Partners, L.P.	APU		24.81	49.4	1,230	8.9	0.51	1.17
Alliance Res. Part, L.P.	ARLP		24.29	15.9	390	8.2	0.45	1.12
Total or Median					16,300	8.4	0.51	1.56
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		19.01	29	540	7.3	0.63	1.67
Dorchester Minerals, L.P.	DMLP		14.30	27.0	386	11.0	-	1.23
<b>Canadian Royalty Trusts</b>								
Provident Energy Trust	PVX		7.25	63.5	460	19.8	0.24	1.34
Enerplus Resources Fund	ERF		19.06	75.0	1,430	12.3	0.16	1.05
Pengrowth Energy Trust	PGH		9.69	110.0	1,070	15.6	0.19	1.02
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	23.26	57.3	1,330	5.5	0.13	0.63
Total or Median					4,300	13.9	0.17	1.03
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		19.92	6.0	120	12.1	-	0.92
San Juan Basin Royalty Trust	SJT	В	14.09	46.6	660	13.7	-	0.79
Hugoton RoyaltyTrust (46%)	HGT		13.30	18.4	250	13.3	-	0.77
Total or Median					1,030	13.3	-	0.79
Additional McDep Recommendations	S							
PetroChina Company Ltd (10%)	PTR	В	21.48	176	3,800	5.9	0.17	0.76
Royal Dutch/Shell	RD	В	41.50	3,481	144,400	4.1	0.15	0.74
Marathon Oil Corporation	MRO	В	22.01	310	6,800	4.2	0.37	0.72
ChevronTexaco Corporation	CVX	В	65.07	1,062	69,100	4.3	0.17	0.71
Total or Median					224,000	4.2	0.17	0.73

Buy/Sell rating after symbol: B - Buy, N - Neutral, S - Sell NTM = Next Twelve Months Ended December 31, 2003

McDep Ratio =  $\mathbf{M}$ arket  $\mathbf{c}$ ap and  $\mathbf{D}$ ebt to  $\mathbf{p}$ resent value of oil and gas and other businesses

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Table MEII-2 McDep Energy Income Ideas Distribution Validity, Fees and Cash flow Multiples

			Price					
			(\$/sh)	Dist/	Mgt	Fin	EV/	PV/
	Symbol/		5-Feb	Equity	Fee	Fee	Ebitda	Ebitda
	Rat	ing	2003	Ebitda	(%)	(%)	NTM	NTM
<b>High Greed Partnerships</b>								
El Paso Energy Partners	EPN	S	31.36	4.3	71	6	23.9	9.0
Kinder Morgan Energy Partners, L.P.	KMP	S	35.31	1.5	46	6	15.6	8.7
Enbridge Energy Partners, L.P.	EEP	S	43.95	2.2	21	6	15.4	9.0
Kinder Morgan Management, LLC	KMR	S	31.81	1.5	46	6	14.5	8.7
Plains All Amer. Pipeline	PAA		24.75	1.7	9	6	14.2	9.0
Enbridge Energy Management, L.L.C	EEQ	S	38.00	2.2	21	6	14.0	9.0
Northern Border Partners	NBP		38.02	1.4	8	6	11.9	9.0
TEPPCO Partners, L.P.	TPP		29.42	1.2	25	6	11.6	9.0
Penn Virginia Res. Part, L.P.	PVR		23.00	1.0	2	8	11.0	8.6
AmeriGas Partners, L.P.	APU		24.81	1.1	1	6	10.6	9.0
Alliance Res. Part, L.P.	ARLP		24.29	0.7	2	8	7.8	7.0
Median						14.0	9.0	
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		19.01	1.8	10	6	15.0	9.0
Dorchester Minerals, L.P.	DMLP		14.30	0.9	3		8.2	6.6
<b>Canadian Royalty Trusts</b>								
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	23.26	0.4			7.1	11.2
Enerplus Resources Fund	ERF		19.06	0.8	10	6	6.8	6.5
Provident Energy Trust	PVX		7.25	1.3	20	8	6.0	4.5
Pengrowth Energy Trust	PGH		9.69	0.9	9	6	6.0	5.9
Median							6.4	6.2
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		19.92	0.9			7.9	8.6
Hugoton RoyaltyTrust (46%)	HGT		13.30	0.8			5.8	7.6
San Juan Basin Royalty Trust	SJT	В	14.09	0.8			5.7	7.3
Additional McDep Recommendations								
Royal Dutch/Shell	RD	В	41.50	0.2			6.3	8.6
ChevronTexaco Corporation	CVX	В	65.07	0.2			5.8	8.2
Marathon Oil Corporation	MRO	В	22.01	0.1			4.4	6.2
PetroChina Company Ltd (10%)	PTR	В	21.48	0.2			3.9	5.1
Median							5.1	7.2

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#### Table SJT-1 San Juan Basin Royalty Trust Present Value

Volun Capex	ne Decline ( ne Enhance (/Cash Flow ble Cost (%	ment (%/yr): / (%):		11 10 25 12		Price Escalation Post 2008 (%/yr): Discount rate (%/yr): U.S. TIPS Inflation (%/yr): U.S. 10 Year Yield (%/yr):					2.7 6.0 1.9 4.0	
PV/Vo	olume (\$/m	cf):		1.49		PV/EBITDA 2003:						7.4
		Volume				Fixed	Var	Cap				Present
		Enhanced	Total		Revenue	Cost	Cost	Ex	Distri		Disc	Value
Year	(bcf)	(bcf)	(bcf)	(\$/mcf)	(\$mm)	(\$mm)	(\$mm)	(\$mm)	(\$mm)	(\$/unit)	Factor	(\$/unit)
Total	2003 throug	gh 2032; years	s ending	g on 12/3	1							
	318	243	561	4.06	2280	388	274	211	1408	30.22	0.59	17.90
2003	34.9	0.0	34.9	4.01	140.0	10.9	16.8	22.5	89.8	1.93	0.97	1.87
2004	31.2	3.5	34.7	3.92	136.2	13.0	16.3	26.7	80.1	1.72	0.92	1.58
2005	27.9	6.6	34.5	3.55	122.4	13.0	14.7	23.7	71.0	1.52	0.86	1.32
2006	25.0	9.3	34.3	3.37	115.5	13.0	13.9	22.2	66.5	1.43	0.82	1.16
2007	22.3	11.8	34.1	3.39	115.5	13.0	13.9	22.2	66.5	1.43	0.77	1.10
2008	20.0	14.0	33.9	3.46	117.2	13.0	14.1	22.5	67.6	1.45	0.73	1.05
2009	17.8	15.9	33.7	3.55	119.7	13.0	14.4	23.1	69.2	1.49	0.68	1.02
2010	15.9	17.6	33.5	3.65	122.2	13.0	14.7	23.6	70.9	1.52	0.65	0.98
2011	14.3	19.0	33.3	3.75	124.7	13.0	15.0	24.2	72.6	1.56	0.61	0.95
2012	12.7	17.0	29.8	3.85	114.5	13.0	13.7		87.8	1.88	0.57	1.08
2013	11.4	15.2	26.6	3.95	105.2	13.0	12.6		79.5	1.71	0.54	0.93
2014	10.2	13.6	23.8	4.06	96.6	13.0	11.6		72.0	1.54	0.51	0.79
2015	9.1	12.2	21.3	4.17	88.7	13.0	10.6		65.0	1.40	0.48	0.67
2016	8.1	10.9	19.0	4.28	81.4	13.0	9.8		58.6	1.26	0.46	0.57
2017	7.3	9.7	17.0	4.40	74.8	13.0	9.0		52.8	1.13	0.43	0.49
2018	6.5	8.7	15.2	4.52	68.6	13.0	8.2		47.4	1.02	0.41	0.41
2019	5.8	7.8	13.6	4.64	63.0	13.0	7.6		42.5	0.91	0.38	0.35
2020	5.2	6.9	12.1	4.77	57.9	13.0	6.9		37.9	0.81	0.36	0.29
2021	4.6	6.2	10.9	4.89	53.1	13.0	6.4		33.8	0.72	0.34	0.25
2022	4.2	5.6	9.7	5.03	48.8	13.0	5.9		29.9	0.64	0.32	0.21
2023	3.7	5.0	8.7	5.16	44.8	13.0	5.4		26.4	0.57	0.30	0.17
2024	3.3	4.4	7.8	5.30	41.1	13.0	4.9		23.2	0.50	0.29	0.14
2025	3.0	4.0	6.9	5.45	37.8	13.0	4.5		20.2	0.43	0.27	0.12
2026	2.7	3.5	6.2	5.59	34.7	13.0	4.2		17.5	0.38	0.25	0.10
2027	2.4	3.2	5.5	5.75	31.9	13.0	3.8 3.5		15.0	0.32	0.24	0.08
2028	2.1	2.8	5.0	5.90	29.2	13.0	3.3		12.7	0.27	0.23	0.06
2029 2030	1.9 1.7	2.5 2.3	4.4 4.0	6.06 6.23	26.9 24.7	13.0 13.0	3.2		10.6 8.7	0.23 0.19	0.21 0.20	0.05 0.04
2030	1.7	2.3	3.5	6.23	24.7	13.0	2.7		8.7 6.9	0.19	0.20	0.04
2031	1.3	1.8	3.2	6.57	20.8	13.0	2.7		5.3	0.13	0.19	0.03

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#### Table SJT-2 San Juan Basin Royalty Trust Distributable Income

			Disti	ibutable ii	iconic					37 /
										Next
										Twelve
	QI	Q2	Q3	Q4E	Year	Q1E	Q2E	Q3E	Q4E	Months
	3/31/02	6/30/02	9/30/02	12/31/02	2002E	3/31/03	6/30/03	9/30/03	12/31/03	12/31/03
Highlights										
Revenue (\$mm) (75%)	19.2	18.6	20.7	20.4	78.9	30.7	39.0	35.7	34.6	140.0
Cash flow (\$mm) (75%)	14.1	14.1	16.0	15.5	59.7	24.6	32.3	29.3	28.2	114.3
Per unit	0.30	0.30	0.34	0.33	1.28	0.53	0.69	0.63	0.61	2.45
Tax credit (\$mm)	0.5	1.4	1.9	1.9	5.6					
Per unit	0.01	0.03	0.04	0.04	0.12					
Distributable Income (\$mm)	3.5	9.0	12.2	11.6	36.3	19.5	25.3	22.9	22.1	89.8
Per unit	0.08	0.19	0.26	0.25	0.78	0.42	0.54	0.49	0.47	1.93
Units (millions)	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
Volume										
Natural gas (mmbtu)	12.5	12.0	11.6	12.4	48.5	12.3	11.9	12.3	12.3	49.0
Heat Content(btu/cf)	1,092	1,077	970	1,064	1,050	1,064	1,064	1,064	1,064	1,064
Natural gas (bcf)	11.5	11.1	12.0	11.6	46.2	11.6	11.2	11.6	11.6	46.1
Natural Gas (mmcfd)	124.7	125.1	130.4	126.2	126.6	126.2	126.2	126.2	126.2	126.2
Days	92	89	92	92	365	92	89	92	92	365
Oil (mb)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Oil (mbd)	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2
Total gas & oil (bcf)	11.6	11.3	12.1	11.7	46.8	11.7	11.4	11.7	11.7	46.6
Price	11.0	11.0	12.1	11.,	.0.0		11	1117	1117	1010
Natural gas (\$/mmbtu) (Hen	rv Huh lago	ed two mo	onths)							
Henry Hub (\$/mmbtu)	2.34	2.92	3.23	3.59	3.02	4.73	5.73	5.08	4.93	5.12
Differential (%)	14	31	28	40	30	31	25	25	25	26
Total	2.01	2.02	2.33	2.16	2.13	3.27	4.30	3.81	3.69	3.76
Natural gas (\$/mcf)	2.20	2.18	2.26	2.30	2.24	3.47	4.57	4.06	3.93	4.00
Oil (\$/bbl) (WTI Cushing la			2.20	2.30	2.27	3.47	4.57	4.00	3.73	4.00
WTI Cushing	19.56	23.80	26.49	28.96	24.70	29.55	33.65	31.43	29.15	30.94
SJT	15.78	19.14	21.95	24.00	20.10	24.48	27.88	26.04	24.15	25.62
Total gas & oil (\$/mcf)	2.20	2.19	2.28	2.32	2.25	3.48	4.58	4.06	3.93	4.01
Revenue (\$mm)	2.20	2.19	2.20	2.32	2.23	3.40	4.50	4.00	3.73	4.01
Natural Gas	25.2	24.2	27.1	26.7	103.3	40.3	51.4	47.1	45.6	184.4
Oil	0.4	0.5	0.5	0.5	1.9	0.5	0.6	0.6	0.5	2.3
Total	25.6	24.8	27.6	27.2	105.2	40.9	52.0	47.7	46.2	186.7
	23.0	24.8	27.0	21.2	103.2	40.9	32.0	47.7	40.2	180.7
Cost (\$mm)	2.6	2.4	2.3	3.1	10.5	4.1	5.0	1.6	4.4	18.1
Severance tax	2.6					4.1		4.6	4.4	
Operating	4.1	3.7	4.0	3.4	15.2	4.0	3.9	4.1	4.1	16.1
Total	6.7	6.0	6.3	6.5	25.6	8.1	8.9	8.6	8.5	34.2
Cash flow (\$mm)	18.8	18.8	21.3	20.7	79.6	32.7	43.0	39.0	37.7	152.5
Development	11.3	3.4	2.1	4.7	21.5	6.1	8.6	7.8	7.5	30.0
Net proceeds (\$mm)	7.5	15.4	19.2	16.1	58.2	26.7	34.4	31.2	30.1	122.5
Royalty income (\$mm)	5.6	11.5	14.4	12.1	43.6	20.0	25.8	23.4	22.6	91.8
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
Administration	0.4	0.5	0.6	0.5	2.0	0.5	0.5	0.5	0.5	2.0
One-time	1.7	2.0	1.6		5.3					-
<b>Distributable income</b> (\$mm)	3.5	9.0	12.2	11.6	36.3	19.5	25.3	22.9	22.1	89.8
Modeling ratios										
Severance tax/revenue	10.2%	9.5%	8.5%	11.5%	9.9%	10.1%	9.6%	9.6%	9.6%	9.7%
Operating cost (\$/mcf)	0.36	0.32	0.33	0.29	0.32	0.34	0.35	0.35	0.35	0.35

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Table SJT-3
San Juan Basin Royalty Trust
Monthly Declarations

	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03			
<b>Distribution</b> (\$/unit)										
Declared	0.12	0.04	0.09	0.10						
Projected					0.14	0.17	0.15			
Volume										
Natural gas (mmbtu)	4.49	3.77	4.08	4.07	4.14	4.14	3.74			
Heat Content(btu/cf)	1,084	1,064	1,043	1,092	1,050	1,050	1,050			
Natural gas (bcf)	4.15	3.55	3.91	3.73	3.94	3.94	3.56			
Natural Gas (mmcfd)	134	118	126	124	127	127	127			
Days	31	30	31	30	31	31	28			
Price										
Natural gas industry quotes lagged two months (\$/mmbtu)										
Henry Hub Daily/Futures	3.09	3.55	4.12	4.03	4.76	5.41	6.13			
San Juan Monthly Index	2.50	2.42	2.52	3.25	3.45	4.14	3.27			
SJT/Henry Hub	0.74	0.55	0.54	0.71	0.67	0.69	0.59			
SJT/San Juan Index	0.91	0.81	0.89	0.88	0.93	0.90	1.10			
SJT (\$/mmbtu)	2.28	1.95	2.24	2.85	3.20	3.74	3.60			
SJT (\$/mcf)	2.47	2.07	2.33	3.12	3.36	3.92	3.78			
Revenue (\$mm)										
Natural Gas	10.2	7.3	9.1	11.6	13.2	15.5	13.5			
Other	(0.1)	(0.0)	0.0	0.1	(0.1)	(0.1)	(0.1)			
Cost (\$mm)										
Severance tax	0.9	0.7	1.5	1.2	1.3	1.6	1.4			
Operating	1.1	1.8	0.5	1.5	1.3	1.3	1.3			
Total	2.0	2.5	2.0	2.7	2.6	2.8	2.6			
Cash flow (\$mm)	8.2	4.8	7.1	9.0	10.5	12.5	10.7			
Development	1.0	2.1	1.6	2.7	1.7	1.7	1.7			
Net proceeds (\$mm)	7.2	2.7	5.5	6.3	8.9	10.9	9.1			
Royalty income (\$mm)	5.4	2.0	4.2	4.7	6.7	8.1	6.8			
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%			
One time										
Distributable income (\$mm)	5.4	2.0	4.2	4.7	6.7	8.1	6.8			
Units (millions)	46.6	46.6	46.6	46.6	46.6	46.6	46.6			
<b>Distribution</b> (\$/unit)	0.12	0.04	0.09	0.10	0.14	0.17	0.15			
Latest Twelve Month Average										
Heat Content(btu/cf)	1,057	1,054	1,050	1,050						
Natural Gas (mmcfd)	125	125	127	127						
SJT/Henry Hub	0.74	0.71	0.72	0.70						
SJT/San Juan Index	0.87	0.86	0.88	0.89						
Other revenue	(0.0)	(0.0)	(0.2)	(0.1)						
Operating	1.3	1.3	1.3	1.3						
Development	2.2	2.0	1.8	1.7						
Severance tax/revenue	9.7%	9.6%	10.1%	10.1%						