Energy Trusts and Partnerships

Summary and Recommendation

- High Greed Partnerships Not a Good Deal
- Canadian Royalty Trusts fill a niche if restrained on debt and fees
- U.S. Natural Gas Royalty Trusts efficient for investor, but remain small

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The slide above is from a presentation printed separately under the same date. The rest of *Natural Gas Royalty Trusts* this week includes customary tables.

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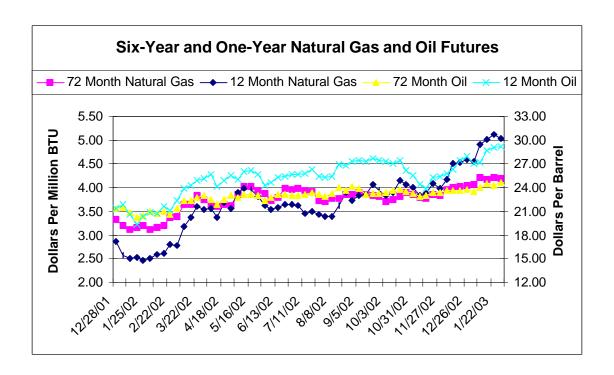
Natural Gas and Oil Futures

January 29, 2003

	2004	2005	2006	2007	2008	2009	Six Year
Natural Gas (\$/mmbtu)							
Year ending February	5.04	4.34	3.97	3.87	3.93	3.98	4.19
Light Sweet Crude Oil (\$/bbl))						
Year ending February	29.25	24.68	23.70	23.51	23.36	23.28	24.63
Natural Gas/Oil (6:1 = 1.0)							
Year ending February	1.03	1.06	1.01	0.99	1.01	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) 29-Jan 2003	Shares (mm)	Market Cap (\$mm)	Div or Distrib. NTM (%)	Debt/ Present Value	McDep Ratio
	Rat	ing	2003	(mm)	(\$mm)	(70)	vaiue	кано
High Greed Partnerships								
El Paso Energy Partners	EPN	S	30.65	57.0	1,750	8.8	0.64	2.61
Kinder Morgan Energy Partners, L.P.	KMP	S	36.75	141	5,190	6.8	0.47	1.85
Kinder Morgan Management, LLC	KMR	S	33.95	39.5	1,340	7.4	0.47	1.75
Enbridge Energy Partners, L.P.	EEP	S	44.55	35.0	1,560	8.1	0.64	1.72
Plains All Amer. Pipeline	PAA		26.44	50.0	1,320	8.1	0.49	1.65
Enbridge Energy Management, L.L.C	EEQ	S	38.15	9.0	340	9.4	0.64	1.56
Northern Border Partners	NBP		38.00	44.0	1,670	8.4	0.62	1.32
Penn Virginia Res. Part, L.P.	PVR		23.56	15.3	360	8.5	-	1.31
TEPPCO Partners, L.P.	TPP		29.09	50.0	1,450	8.3	0.56	1.28
AmeriGas Partners, L.P.	APU		24.60	49.4	1,220	8.9	0.51	1.17
Alliance Res. Part, L.P.	ARLP		24.66	15.9	390	8.1	0.45	1.13
Total or Median					16,600	8.3	0.51	1.56
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		18.95	29	540	7.3	0.63	1.67
Dorchester Hugoton, Ltd.	DHULZ		16.49	10.7	177	9.3	(0.17)	1.49
Canadian Royalty Trusts								
Provident Energy Trust	PVX		7.12	63.5	450	20.2	0.24	1.32
Pengrowth Energy Trust	PGH		10.00	110.0	1,100	15.1	0.19	1.04
Enerplus Resources Fund	ERF		18.71	75.0	1,400	12.5	0.16	1.03
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	24.74	57.3	1,420	5.2	0.13	0.67
Total or Median					4,400	13.8	0.17	1.04
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		18.75	6.0	113	12.4	-	0.89
San Juan Basin Royalty Trust	SJT	В	13.91	46.6	650	13.4	-	0.80
Hugoton RoyaltyTrust (46%)	HGT		13.06	18.4	240	13.0	-	0.78
Total or Median					1,000	13.0	-	0.80
Additional McDep Recommendations	S							
Royal Dutch/Shell	RD	В	41.35	3,481	143,900	4.1	0.15	0.74
PetroChina Company Ltd (10%)	PTR	В	20.20	176	3,600	6.3	0.17	0.73
ChevronTexaco Corporation	CVX	В	65.30	1,062	69,400	4.3	0.17	0.71
Marathon Oil Corporation	MRO	В	21.28	310	6,600	4.3	0.37	0.70
Total or Median					224,000	4.3	0.17	0.72

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/		29-Jan	Equity	Fee	Fee	Ebitda	Ebitda
	•	ting	2003	Ebitda	(%)	(%)	NTM	NTM
High Greed Partnerships								
El Paso Energy Partners	EPN	S	30.65	4.3	71	6	23.4	9.0
Kinder Morgan Energy Partners, L.P.	KMP	S	36.75	1.5	46	6	16.1	8.7
Enbridge Energy Partners, L.P.	EEP	S	44.55	2.2	21	6	15.5	9.0
Kinder Morgan Management, LLC	KMR	S	33.95	1.5	46	6	15.2	8.7
Plains All Amer. Pipeline	PAA		26.44	1.7	9	6	14.8	9.0
Enbridge Energy Management, L.L.C	EEQ	S	38.15	2.2	21	6	14.0	9.0
Northern Border Partners	NBP		38.00	1.4	8	6	11.9	9.0
TEPPCO Partners, L.P.	TPP		29.09	1.2	25	6	11.5	9.0
Penn Virginia Res. Part, L.P.	PVR		23.56	1.0	2	8	11.2	8.6
AmeriGas Partners, L.P.	APU		24.60	1.1	1	6	10.5	9.0
Alliance Res. Part, L.P.	ARLP		24.66	0.7	2	8	7.9	7.0
Median						14.0	9.0	
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		18.95	1.8	10	6	15.0	9.0
Dorchester Hugoton, Ltd.	DHULZ		16.49	0.8	3		9.5	6.4
Canadian Royalty Trusts								
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	24.74	0.4			7.5	11.2
Enerplus Resources Fund	ERF		18.71	0.8	10	6	6.7	6.5
Pengrowth Energy Trust	PGH		10.00	0.9	9	6	6.1	5.9
Provident Energy Trust	PVX		7.12	1.3	20	8	5.9	4.5
Median							6.4	6.2
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		18.75	0.9			7.6	8.6
Hugoton RoyaltyTrust (46%)	HGT		13.06	0.8			5.9	7.6
San Juan Basin Royalty Trust	SJT	В	13.91	0.8			5.9	7.3
Additional McDep Recommendations								
Royal Dutch/Shell	RD	В	41.35	0.2			6.3	8.6
ChevronTexaco Corporation	CVX	В	65.30	0.2			5.8	8.2
Marathon Oil Corporation	MRO	В	21.28	0.1			4.3	6.2
PetroChina Company Ltd (10%)	PTR	В	20.20	0.2			3.7	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 (\$/me	cf):		1.44				PV/EBI	ΓDA 200	3:		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	3.95	2219	388	266	205	1359	29.17	0.59	17.30
2003	34.9	0.0	34.9	3.89	135.7	11.0	16.3	21.8	86.7	1.86	0.97	1.81
2003	31.2	3.5	34.7	3.85	133.7	13.0	16.1	26.2	78.6	1.69	0.92	1.55
2005	27.9	6.6	34.5	3.47	119.8	13.0	14.4	23.1	69.3	1.49	0.86	1.28
2006	25.0	9.3	34.3	3.32	113.8	13.0	13.7	21.8	65.3	1.40	0.81	1.14
2007	22.3	11.8	34.1	3.30	112.7	13.0	13.5	21.5	64.6	1.39	0.77	1.07
2008	20.0	14.0	33.9	3.37	114.3	13.0	13.7	21.9	65.7	1.41	0.72	1.02
2009	17.8	15.9	33.7	3.46	116.6	13.0	14.0	22.4	67.2	1.44	0.68	0.99
2010	15.9	17.6	33.5	3.55	119.0	13.0	14.3	22.9	68.8	1.48	0.64	0.95
2011	14.3	19.0	33.3	3.65	121.4	13.0	14.6	23.5	70.4	1.51	0.61	0.92
2012	12.7	17.0	29.8	3.74	111.4	13.0	13.4		85.1	1.83	0.57	1.05
2013	11.4	15.2	26.6	3.84	102.3	13.0	12.3		77.0	1.65	0.54	0.89
2014	10.2	13.6	23.8	3.94	93.9	13.0	11.3		69.6	1.49	0.51	0.76
2015	9.1	12.2	21.3	4.05	86.1	13.0	10.3		62.8	1.35	0.48	0.65
2016	8.1	10.9	19.0	4.16	79.1	13.0	9.5		56.6	1.21	0.45	0.55
2017	7.3	9.7	17.0	4.27	72.6	13.0	8.7		50.8	1.09	0.43	0.47
2018	6.5	8.7	15.2	4.38	66.6	13.0	8.0		45.6	0.98	0.40	0.39
2019	5.8	7.8	13.6	4.50	61.1	13.0	7.3		40.8	0.88	0.38	0.33
2020	5.2	6.9	12.1	4.62	56.1	13.0	6.7		36.4	0.78	0.36	0.28
2021	4.6	6.2	10.9	4.74	51.5	13.0	6.2		32.3	0.69	0.34	0.23
2022	4.2	5.6	9.7	4.87	47.2	13.0	5.7		28.6	0.61	0.32	0.20
2023	3.7	5.0	8.7	5.00	43.4	13.0	5.2		25.2	0.54	0.30	0.16
2024	3.3	4.4	7.8	5.13	39.8	13.0	4.8		22.0	0.47	0.28	0.13
2025	3.0	4.0	6.9	5.27	36.5	13.0	4.4		19.1	0.41	0.27	0.11
2026	2.7	3.5	6.2	5.41	33.5	13.0	4.0		16.5	0.35	0.25	0.09
2027	2.4	3.2	5.5	5.55	30.8	13.0	3.7		14.1	0.30	0.24	0.07
2028	2.1	2.8	5.0	5.70	28.2	13.0	3.4		11.8	0.25	0.22	0.06
2029 2030	1.9 1.7	2.5 2.3	4.4 4.0	5.85 6.00	25.9 23.8	13.0 13.0	3.1 2.9		9.8 7.9	0.21 0.17	0.21 0.20	0.04 0.03
2030	1.7	2.3	3.5	6.16	23.8	13.0	2.9		6.2	0.17	0.20	0.03
2031	1.3	1.8	3.2	6.33	20.0	13.0	2.4		4.6	0.13	0.19	0.03

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Table SJT-2 San Juan Basin Royalty Trust Distributable Income

	Distributable income									37 /
										Next
										Twelve
	Q1	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	30.6	36.4	34.7	34.1	135.7
Cash flow (\$mm) (75%)	14.1	14.1	16.0	15.5	59.7	24.5	29.9	28.4	27.8	110.5
Per unit	0.30	0.30	0.34	0.33	1.28	0.52	0.64	0.61	0.60	2.37
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	19.4	23.4	22.2	21.7	86.7
Per unit	0.08	0.19	0.26	0.25	0.78	0.42	0.50	0.48	0.47	1.86
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	11.5	12.1	11.7	40.0	11.7	11.7	11.7	11.7	40.0
Natural gas (\$/mmbtu) (Hen	ry Hub lago	red two me	onthe)							
Henry Hub (\$/mmbtu)	2.34	2.92	3.23	3.59	3.02	4.71	5.35	4.94	4.85	4.96
Differential (%)	2.34	31	28	40	3.02	31	25	25	25	26
Total	2.01	2.02	2.33	2.16	2.13	3.26	4.01	3.70	3.64	3.65
	2.01	2.02	2.33	2.10	2.13	3.46	4.01	3.70	3.87	3.88
Natural gas (\$/mcf)			2.20	2.30	2.24	3.40	4.20	3.94	3.87	3.88
Oil (\$/bbl) (WTI Cushing la			26.40	20.00	24.70	20.54	22.22	20.70	20.20	20.46
WTI Cushing	19.56	23.80	26.49	28.96	24.70	29.54	33.23	30.70	28.38	30.46
SJT	15.78	19.14	21.95	24.00	20.10	24.48	27.53	25.44	23.52	25.22
Total gas & oil (\$/mcf)	2.20	2.19	2.28	2.32	2.25	3.47	4.27	3.94	3.87	3.89
Revenue (\$mm)					400.0	40.0				4=0=
Natural Gas	25.2	24.2	27.1	26.7	103.3	40.2	47.9	45.7	44.9	178.7
Oil	0.4	0.5	0.5	0.5	1.9	0.5	0.6	0.6	0.5	2.2
Total	25.6	24.8	27.6	27.2	105.2	40.8	48.5	46.3	45.4	181.0
Cost (\$mm)										
Severance tax	2.6	2.4	2.3	3.1	10.5	4.1	4.7	4.4	4.4	17.6
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	8.6	8.5	8.4	33.7
Cash flow (\$mm)	18.8	18.8	21.3	20.7	79.6	32.6	39.9	37.8	37.0	147.3
Development	11.3	3.4	2.1	4.7	21.5	6.1	8.0	7.6	7.4	29.0
Net proceeds (\$mm)	7.5	15.4	19.2	16.1	58.2	26.6	31.9	30.2	29.6	118.3
Royalty income (\$mm)	5.6	11.5	14.4	12.1	43.6	19.9	23.9	22.7	22.2	88.7
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					-
Distributable income (\$mm)	3.5	9.0	12.2	11.6	36.3	19.4	23.4	22.2	21.7	86.7
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
- Laming cost (dump)	0.20	0.02	0.00	٠/	0.02	0.0	0.00	0.00	0.00	0.00

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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			
Distribution (\$/unit)										
Declared	0.12	0.04	0.09	0.10						
Projected					0.14	0.17	0.16			
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	5.33	5.06			
San Juan Monthly Index	2.50	2.42	2.52	3.25	3.45	4.14	4.50			
SJT/Henry Hub	0.74	0.55	0.54	0.71	0.67	0.70	0.75			
SJT/San Juan Index	0.91	0.81	0.89	0.88	0.93	0.90	0.84			
SJT (\$/mmbtu)	2.28	1.95	2.24	2.85	3.20	3.71	3.77			
SJT (\$/mcf)	2.47	2.07	2.33	3.12	3.36	3.89	3.96			
Revenue (\$mm)										
Natural Gas	10.2	7.3	9.1	11.6	13.2	15.3	14.1			
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	2.7			
Cash flow (\$mm)	8.2	4.8	7.1	9.0	10.5	12.4	11.3			
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	10.7	9.6			
Royalty income (\$mm)	5.4	2.0	4.2	4.7	6.7	8.1	7.2			
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	7.2			
Units (millions)	46.6	46.6	46.6	46.6	46.6	46.6	46.6			
Distribution (\$/unit)	0.12	0.04	0.09	0.10	0.14	0.17	0.16			
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%						