McDep Energy Income Ideas

Summary and Recommendation

Recommended San Juan Basin Royalty Trust (SJT) as well as Cross Timbers Royalty Trust (CRT) and Hugoton Royalty Trust (HGT) are the choicest income ideas in our research coverage offering near 11% distribution yields, reasonable value, no debt and no fees (see Tables MEII-1 and MEII-2). Buy recommended integrated oils, after lagging in stock price, offer even better value, near 4% yields, low debt and low fees. Buy recommended Canadian Oil Sands Trust (COS_u.TO) is a standout in value, distributes more than 5%, has low debt and no fees. The least attractive income stocks, High Greed Partnerships, are at the high end of the tables consistent with their high valuation risk. Those low quality investments also sport excess debt and, of course, as the name implies, pay high fees to general partners. Meanwhile, *Natural Gas Royalty Trusts* will continue in 2003 to have a fresh calculation weekly of Present Value and Next Twelve Months Distribution, but may not print the details every week for CRT and HGT.

Kurt H. Wulff, CFA

Natural Gas and Oil Futures

December 31, 2002										
	2004	2005	2006	2007	2008	2009	Six Year			
Natural Gas (\$/mmbtu)										
Year ending January	4.56	4.22	3.92	3.85	3.92	3.96	4.07			
Light Sweet Crude Oil (\$/bbl)										
Year ending January	27.10	23.39	22.93	22.78	22.64	22.58	23.57			
Natural Gas/Oil (6:1 = 1.0)										
Year ending January	1.01	1.08	1.03	1.01	1.04	1.05	1.04			

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

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

			Price (\$/sh)		Market	Div or Distrib.	Debt/	
	Symbol/		31-Dec	Shares	Cap	NTM	Present	McDep
		ting	2002	(mm)	(\$mm)	(%)	Value	Ratio
High Greed Partnerships								
El Paso Energy Partners	EPN	S	27.84	57.0	1,590	9.7	0.64	2.43
Kinder Morgan Energy Partners, L.P.	KMP	S	35.00	135	4,740	7.0	0.47	1.79
Enbridge Energy Partners, L.P.	EEP	S	42.15	35.0	1,480	8.5	0.64	1.67
Kinder Morgan Management, LLC	KMR	S	31.59	39.5	1,250	7.7	0.47	1.66
Plains All Amer. Pipeline	PAA		24.40	50.0	1,220	8.8	0.49	1.56
Enbridge Energy Management, L.L.C	EEQ	S	37.50	9.0	340	9.6	0.64	1.56
Northern Border Partners	NBP		37.87	44.0	1,670	8.4	0.62	1.32
TEPPCO Partners, L.P.	TPP		27.75	50.0	1,390	8.6	0.56	1.25
AmeriGas Partners, L.P.	APU		23.85	49.4	1,180	9.2	0.51	1.15
Penn Virginia Res. Part, L.P.	PVR		20.62	15.3	320	9.7	-	1.14
Alliance Res. Part, L.P.	ARLP		24.22	15.9	390	8.3	0.45	1.12
Total or Median				15,600	8.6	0.51	1.56	
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		19.40	29	550	7.1	0.63	1.68
Dorchester Hugoton, Ltd.	DHULZ		14.47	10.7	155	10.6	(0.17)	1.28
Canadian Royalty Trusts								
Provident Energy Trust	PVX		6.86	63.5	440	20.9	0.24	1.28
Enerplus Resources Fund	ERF		17.75	75.0	1,330	13.2	0.16	0.99
Pengrowth Energy Trust	PGH		9.27	110.0	1,020	16.3	0.19	0.98
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	24.35	57.3	1,400	5.3	0.13	0.66
Total or Median					4,200	14.7	0.17	0.98
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		19.50	6.0	117	10.7	-	0.94
San Juan Basin Royalty Trust	SJT	В	13.70	46.6	640	11.4	-	0.81
Hugoton RoyaltyTrust (46%)	HGT		12.82	18.4	240	11.2	-	0.78
Total or Median					1,000	11.2	-	0.81
Additional McDep Recommendations								
Royal Dutch/Shell	RD	В	44.02	3,481	153,200	3.9	0.15	0.77
PetroChina Company Ltd (10%)	PTR	В	20.07	176	3,500	6.3	0.17	0.72
ChevronTexaco Corporation	CVX	В	66.48	1,062	70,600	4.2	0.17	0.72
Marathon Oil Corporation	MRO	В	21.29	310	6,600	4.3	0.37	0.70
Total or Median					234,000	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 = Market cap and **De**bt to **p**resent value of oil and gas and other businesses

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

			Price					
			(\$/sh)	Dist/	Mgt	Fin	EV/	PV/
	Symbol/		31-Dec	Equity	Fee	Fee	Ebitda	Ebitda
	Ra	ting	2002	Ebitda	(%)	(%)	NTM	NTM
High Greed Partnerships								
El Paso Energy Partners	EPN	S	27.84	4.3	71	6	21.8	9.0
Kinder Morgan Energy Partners, L.P.	KMP	S	35.00	1.5	44	6	15.1	8.4
Enbridge Energy Partners, L.P.	EEP	S	42.15	2.2	21	6	15.0	9.0
Plains All Amer. Pipeline	PAA		24.40	1.7	9	6	14.1	9.0
Enbridge Energy Management, L.L.C	EEQ	S	37.50	2.2	21	6	14.0	9.0
Kinder Morgan Management, LLC	KMR	S	31.59	1.5	44	6	14.0	8.4
Northern Border Partners	NBP		37.87	1.4	8	6	11.9	9.0
TEPPCO Partners, L.P.	TPP		27.75	1.2	25	6	11.3	9.0
AmeriGas Partners, L.P.	APU		23.85	1.1	1	6	10.3	9.0
Penn Virginia Res. Part, L.P.	PVR		20.62	1.0	2	8	9.8	8.6
Alliance Res. Part, L.P.	ARLP		24.22	0.7	2	8	7.8	7.0
Median							14.0	9.0
U.S. Master Limiter Partnerships								
Enterprise Products Part (16%)	EPD		19.40	1.8	10	6	15.2	9.0
Dorchester Hugoton, Ltd.	DHULZ		14.47	0.8	3		8.2	6.4
Canadian Royalty Trusts								
Canadian Oil Sands Trust (US\$)	COS_u.TO	В	24.35	0.4			7.4	11.2
Enerplus Resources Fund	ERF		17.75	0.8	10	6	6.4	6.5
Pengrowth Energy Trust	PGH		9.27	0.9	9	6	5.8	5.9
Provident Energy Trust	PVX		6.86	1.3	20	8	5.7	4.5
Median							6.1	6.2
U.S. Natural Gas Royalty Trusts								
Cross Timbers Royalty Trust	CRT		19.50	0.9			8.7	9.3
San Juan Basin Royalty Trust	SJT	В	13.70	0.7			6.5	8.1
Hugoton RoyaltyTrust (46%)	HGT		12.82	0.7			6.4	8.2
Additional McDep Recommendations								
Royal Dutch/Shell	RD	В	44.02	0.2			6.6	8.6
ChevronTexaco Corporation	CVX	В	66.48	0.2			5.9	8.2
Marathon Oil Corporation	MRO	В	21.29	0.1			4.6	6.5
PetroChina Company Ltd (10%)	PTR	В	20.07	0.2			3.7	5.1
Median							5.2	7.3

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Table SJT-1 San Juan Basin Royalty Trust Present Value

Volume Capex/C	Decline (Enhancer Cash Flow e Cost (%)	ment (%/yr): (%):		10 10 25 12	Price Escalation Post 2008 (%/yr): Discount rate (%/yr): U.S. TIPS Inflation (%/yr): U.S. 10 Year Yield (%/yr):						2.3 5.8 1.5 3.8		
PV/Volu	ume (\$/mo	cf):		1.40		PV/EBITDA 2003:						8.2	
		Volume				Fixed	Var	Cap			Tax		Present
	Basic	Enhanced	Total	Price	Revenue	Cost	Cost	Ex	Distrib	oution	Credit	Disc	Value
Year	(bcf)	(bcf)	(bcf)	(\$/mcf)	(\$mm)	(\$mm)	(\$mm)	(\$mm)	(\$mm)	(\$/unit)	(\$/unit)	Factor	(\$/unit)
Total 20	003 throug	gh 2032; year	s ending	on 12/31									
	318	244	562	3.84	2158	388	259	202	1309	28.09	0.00	0.60	16.90
2003	34.5	0.0	34.5	3.51	121.3	10.9	14.6	22.8	73.0	1.57	0.00	0.97	1.52
2004	30.9	3.5	34.4	3.67	126.0	13.0	15.1	24.5	73.4	1.58		0.92	1.45
2005	27.7	6.5	34.2	3.39	115.9	13.0	13.9	22.2	66.7	1.43		0.87	1.24
2006	24.8	9.3	34.0	3.27	111.3	13.0	13.4	21.2	63.7	1.37		0.82	1.12
2007	22.2	11.7	33.9	3.32	112.4	13.0	13.5	21.5	64.4	1.38		0.78	1.07
2008	19.9	13.9	33.7	3.36	113.4	13.0	13.6	21.7	65.1	1.40		0.73	1.03
2009	17.8	15.8	33.6	3.44	115.5	13.0	13.9	22.2	66.5	1.43		0.69	0.99
2010	15.9	17.5	33.4	3.52	117.7	13.0	14.1	22.6	67.9	1.46		0.66	0.96
2011	14.3	19.0	33.3	3.60	119.9	13.0	14.4	23.1	69.4	1.49		0.62	0.92
2012	12.8	17.0	29.8	3.69	109.9	13.0	13.2		83.7	1.80		0.59	1.05
2013	11.4	15.2	26.7	3.77	100.7	13.0	12.1		75.6	1.62		0.55	0.90
2014	10.2	13.7	23.9	3.86	92.3	13.0	11.1		68.2	1.46		0.52	0.77
2015	9.2	12.2	21.4	3.95	84.6	13.0	10.1		61.4	1.32		0.50	0.65
2016	8.2	11.0	19.2	4.04	77.5	13.0	9.3		55.2	1.18		0.47	0.55
2017	7.4	9.8	17.2	4.14	71.0	13.0	8.5		49.5	1.06		0.44	0.47
2018	6.6	8.8	15.4	4.23	65.1	13.0	7.8		44.3	0.95		0.42	0.40
2019	5.9	7.9	13.8	4.33	59.6	13.0	7.2		39.5	0.85		0.40	0.34
2020	5.3	7.0	12.3	4.43	54.7	13.0	6.6		35.1	0.75		0.37	0.28
2021	4.7	6.3	11.0	4.54	50.1	13.0	6.0		31.1	0.67		0.35	0.24
2022	4.2	5.6	9.9	4.64	45.9	13.0	5.5		27.4	0.59		0.33	0.20
2023	3.8	5.1	8.9	4.75	42.1	13.0	5.0		24.0	0.52		0.32	0.16
2024	3.4	4.5	7.9	4.86	38.6	13.0	4.6		20.9	0.45		0.30	0.13
2025	3.0	4.1	7.1	4.98	35.3	13.0	4.2		18.1	0.39		0.28	0.11
2026	2.7	3.6	6.4	5.09	32.4	13.0	3.9		15.5	0.33		0.27	0.09
2027	2.4	3.3	5.7	5.21	29.7	13.0	3.6		13.1	0.28		0.25	0.07
2028	2.2	2.9	5.1	5.34	27.2	13.0	3.3		10.9	0.23		0.24	0.06
2029	2.0	2.6	4.6	5.46	24.9	13.0	3.0		8.9	0.19		0.23	0.04
2030	1.8	2.3	4.1	5.59	22.8	13.0	2.7		7.1	0.15		0.21	0.03
2031	1.6	2.1	3.7	5.72	20.9	13.0	2.5		5.4	0.12		0.20	0.02
2032	1.4	1.9	3.3	5.85	19.2	13.0	2.3		3.9	0.08		0.19	0.02

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Table SJT-2 San Juan Basin Royalty Trust Distributable Income

			Disti	ibutable ii	icome					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	28.3	31.4	30.8	30.8	121.3
Cash flow (\$mm) (75%)	14.1	14.1	16.0	15.5	59.7	22.6	25.4	24.8	24.8	97.7
Per unit	0.30	0.30	0.34	0.33	1.28	0.49	0.55	0.53	0.53	2.10
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	18.2	18.6	18.1	18.1	73.0
Per unit	0.08	0.19	0.26	0.25	0.78	0.39	0.40	0.39	0.39	1.57
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	12.2	11.8	12.2	12.2	48.4
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	11.5	11.1	11.5	11.5	45.5
Natural Gas (mmcfd)	124.7	125.1	130.4	126.2	126.6	124.6	124.6	124.6	124.6	124.6
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	11.6	11.2	11.6	11.6	46.0
Price	11.0	11.5	12.1	11.7	40.0	11.0	11.2	11.0	11.0	40.0
Natural gas (\$/mmbtu) (Henr	v Hub lagge	ed two mon	the)							
Henry Hub (\$/mmbtu)	2.34	2.92	3.23	3.59	3.02	4.46	4.67	4.43	4.44	4.50
Differential (%)	2.34	31	28	40	3.02	32	25	25	25	27
* *	2.01	2.02	2.33		2.13	3.05	3.50	3.33	3.33	3.30
Total	2.01	2.02		2.16						
Natural gas (\$/mcf)			2.26	2.30	2.24	3.24	3.72	3.54	3.54	3.51
Oil (\$/bbl) (WTI Cushing lag	-		26.40	20.06	24.70	20.07	20.42	27.62	25.70	20.10
WTI Cushing	19.56	23.80	26.49	28.96	24.70	28.97	30.42	27.63	25.70	28.18
SJT	15.78	19.14	21.95	24.00	20.10	24.01	25.20	22.89	21.29	23.33
Total gas & oil (\$/mcf)	2.20	2.19	2.28	2.32	2.25	3.25	3.73	3.54	3.54	3.51
Revenue (\$mm)										
Natural Gas	25.2	24.2	27.1	26.7	103.3	37.2	41.3	40.6	40.6	159.6
Oil	0.4	0.5	0.5	0.5	1.9	0.5	0.5	0.5	0.5	2.1
Total	25.6	24.8	27.6	27.2	105.2	37.7	41.8	41.1	41.1	161.7
Cost (\$mm)										
Severance tax	2.6	2.4	2.3	3.1	10.5	3.8	4.0	3.9	3.9	15.7
Operating	4.1	3.7	4.0	3.4	15.2	3.8	3.9	4.0	4.0	15.7
Total	6.7	6.0	6.3	6.5	25.6	7.5	7.9	8.0	8.0	31.4
Cash flow (\$mm)	18.8	18.8	21.3	20.7	79.6	30.1	33.9	33.1	33.1	130.3
Development	11.3	3.4	2.1	4.7	21.5	5.4	8.5	8.3	8.3	30.4
Net proceeds (\$mm)	7.5	15.4	19.2	16.1	58.2	24.8	25.4	24.8	24.8	99.9
Royalty income (\$mm)	5.6	11.5	14.4	12.1	43.6	18.6	19.1	18.6	18.6	74.9
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
Administration	0.4	0.5	0.6	0.5	2.0	0.4	0.5	0.5	0.5	1.9
One-time	1.7	2.0	1.6		5.3					_
Distributable income (\$mm)	3.5	9.0	12.2	11.6	36.3	18.2	18.6	18.1	18.1	73.0
Modeling ratios										
Severance tax/revenue	10.2%	9.5%	8.5%	11.5%	9.9%	10.0%	9.6%	9.6%	9.6%	9.7%
Operating cost (\$/mcf)	0.36	0.32	0.33	0.29	0.32	0.33	0.35	0.35	0.35	0.34
- Pormand copt (deliner)	5.50	3.32	3.33	3.27	5.52	5.55	0.55	5.55	3.55	U.J T

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Table SJT-3
San Juan Basin Royalty Trust
Monthly Declarations

	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03
Distribution (\$/unit)								
Declared	0.08	0.10	0.12	0.04	0.09			
Projected						0.11	0.14	0.14
Volume								
Natural gas (mmbtu)	3.77	3.95	4.49	3.77	4.08	3.92	4.05	4.05
Heat Content(btu/cf)	807	1,068	1,084	1,064	1,043	1,050	1,050	1,050
Natural gas (bcf)	4.67	3.70	4.15	3.55	3.91	3.74	3.86	3.86
Natural Gas (mmcfd)	156	119	134	118	126	125	125	125
Days	30	31	31	30	31	30	31	31
Price								
Natural gas industry quotes lag	ged two mo	nths (\$/mn	nbtu)					
Henry Hub Daily/Futures	3.22	2.99	3.09	3.55	4.12	4.03	4.76	4.59
San Juan Monthly Index	2.24	2.62	2.50	2.42	2.52	3.25	3.45	
SJT/Henry Hub	0.75	0.78	0.74	0.55	0.54	0.70	0.67	0.71
SJT/San Juan Index	1.08	0.89	0.91	0.81	0.89	0.87	0.92	
SJT (\$/mmbtu)	2.41	2.32	2.28	1.95	2.24	2.83	3.17	3.26
SJT (\$/mcf)	1.95	2.47	2.47	2.07	2.33	2.97	3.33	3.42
Revenue (\$mm)								
Natural Gas	9.1	9.1	10.2	7.3	9.1	11.1	12.9	13.2
Other	(0.2)	0.0	(0.1)	(0.0)	0.0	0.0	0.0	0.0
Cost (\$mm)								
Severance tax	0.8	0.9	0.9	0.7	1.5	1.1	1.3	1.3
Operating	1.6	1.3	1.1	1.8	0.5	1.3	1.3	1.3
Total	2.4	2.2	2.0	2.5	2.0	2.4	2.6	2.6
Cash flow (\$mm)	6.5	6.9	8.2	4.8	7.1	8.7	10.3	10.6
Development	1.0	0.5	1.0	2.1	1.6	1.8	1.8	1.8
Net proceeds (\$mm)	5.5	6.5	7.2	2.7	5.5	6.9	8.5	8.8
Royalty income (\$mm)	4.1	4.9	5.4	2.0	4.2	5.2	6.4	6.6
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%	75%
One time	0.6							
Distributable income (\$mm)	3.5	4.9	5.4	2.0	4.2	5.2	6.4	6.6
Units (millions)	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
Distribution (\$/unit)	0.08	0.10	0.12	0.04	0.09	0.11	0.14	0.14
Latest Twelve Month Average								
Heat Content(btu/cf)	1,059	1,059	1,057	1,054	1,050			
Natural Gas (mmcfd)	124	123	125	125	127			
SJT/Henry Hub	0.73	0.73	0.74	0.71	0.72			
SJT/San Juan Index	0.87	0.87	0.87	0.86	0.88			
Other revenue	(0.0)	(0.0)	(0.0)	(0.0)	(0.2)			
Operating	1.3	1.3	1.3	1.3	1.3			
Development	2.5	2.4	2.2	2.0	1.8			
Severance tax/revenue	10.0%	9.8%	9.7%	9.6%	10.1%			

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