

## Natural Gas Royalty Trusts

A Weekly Analysis

April 15, 2002

## Chavez Departs And Returns

A softening of the oil and natural gas price advance preceded the departure and return of the president of Venezuela. In the week leading up to that moment estimated present value decreased 0%, 1%, and 0% for CRT, HGT and SJT respectively. Estimated Next Twelve Months distribution decreased 7%, 9%, and 6% for CRT, HGT and SJT respectively. Low McDep Ratios for HGT and SJT provide a valuation cushion in volatile times.

### Rank by McDep Ratio: Market Cap and Debt to Present Value

		Price (\$/sh)		Market	Net Present Value	Debt/ Present Value	McDep Ratio
Symbol/ Rating		11-Apr 2002	Shares (mm)	Cap (\$mm)	(\$/sh)		
Cross Timbers Royalty Trust	CRT	18.25	6.0	110	18.70	-	0.98
San Juan Basin Royalty Trust	SJT	2	11.58	46.6	540	15.10	-
Hugoton RoyaltyTrust (46%)	HGT		11.30	18.4	210	15.40	-

Buy/Sell rating after symbol: 1 - Strong Buy, 2 - Buy, 3 - Neutral, 4 - Sell, 5 - Strong Sell  
McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses

### Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

		Price (\$/sh)	EV/ Sales NTM	EV/ Ebitda NTM	P/E NTM	Dividend or Distribution NTM (%)	PV/ Ebitda NTM
Symbol/ Rating		11-Apr 2002					
<b>Natural Gas Royalty Trusts</b>							
Cross Timbers Royalty Trust	CRT	18.25	7.3	10.5	11	8.7	10.8
San Juan Basin Royalty Trust	SJT	2	11.58	6.1	7.9	11	9.4
Hugoton RoyaltyTrust (46%)	HGT		11.30	4.8	7.2	10	9.9

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended March 31, 2003; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses

Kurt H. Wulff, CFA

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**Table CRT-1**  
**Cross Timbers Royalty Trust**  
**Present Value**

Volume Decline (%/yr):	10	Price Escalation post 2007 (%/yr):	2.8
Volume Enhancement (%/yr):	10	Discount Rate (%/yr):	6.6
		U.S. TIPS Inflation (%/yr):	2.0
		U.S. 10 Year Yield (%/yr):	5.2

PV/Volume (\$/mcf):	2.30	PV/EBITDA 2002:	12.0
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Year	Basic (bcf)	Enhanced (bcf)	Total (bcf)	Price (\$/mcf)	Revenue (\$mm)	Oil Net (\$mm)	Distribution (\$mm) (\$/unit)	Tax Credit (\$/unit)	Disc Factor	Present Value (\$/unit)
Total 2002 through 2031										
	26	23	49	4.14	202	6	208	34.67	0.11	0.54
2002	2.7	0.0	2.7	2.83	7.7	1.1	8.8	1.46	0.11	0.97
2003	2.5	0.3	2.7	3.30	9.0	1.0	10.0	1.67		0.91
2004	2.2	0.5	2.7	3.37	9.2	0.8	10.0	1.67		0.85
2005	2.0	0.7	2.7	3.41	9.3	0.7	10.0	1.67		0.80
2006	1.8	0.9	2.7	3.48	9.5	0.6	10.1	1.68		0.75
2007	1.6	1.1	2.7	3.56	9.7	0.5	10.2	1.70		0.70
2008	1.4	1.3	2.7	3.66	10.0	0.5	10.5	1.74		0.66
2009	1.3	1.4	2.7	3.76	10.3	0.4	10.7	1.78		0.62
2010	1.2	1.6	2.7	3.87	10.5	0.4	11.0	1.83		0.58
2011	1.1	1.7	2.7	3.98	10.8		10.8	1.81		0.54
2012	1.0	1.5	2.5	4.09	10.0		10.0	1.67		0.51
2013	0.9	1.4	2.2	4.20	9.3		9.3	1.55		0.48
2014	0.8	1.2	2.0	4.32	8.6		8.6	1.43		0.45
2015	0.7	1.1	1.8	4.44	8.0		8.0	1.33		0.42
2016	0.6	1.0	1.6	4.57	7.4		7.4	1.23		0.40
2017	0.6	0.9	1.4	4.70	6.8		6.8	1.13		0.37
2018	0.5	0.8	1.3	4.83	6.3		6.3	1.05		0.35
2019	0.5	0.7	1.2	4.97	5.8		5.8	0.97		0.33
2020	0.4	0.6	1.1	5.11	5.4		5.4	0.90		0.31
2021	0.4	0.6	1.0	5.25	5.0		5.0	0.83		0.29
2022	0.3	0.5	0.9	5.40	4.6		4.6	0.77		0.27
2023	0.3	0.5	0.8	5.55	4.3		4.3	0.71		0.25
2024	0.3	0.4	0.7	5.71	4.0		4.0	0.66		0.24
2025	0.2	0.4	0.6	5.87	3.7		3.7	0.61		0.22
2026	0.2	0.3	0.6	6.04	3.4		3.4	0.56		0.21
2027	0.2	0.3	0.5	6.21	3.1		3.1	0.52		0.20
2028	0.2	0.3	0.5	6.38	2.9		2.9	0.48		0.18
2029	0.2	0.3	0.4	6.56	2.7		2.7	0.45		0.17
2030	0.1	0.2	0.4	6.75	2.5		2.5	0.41		0.16
2031	0.1	0.2	0.3	6.94	2.3		2.3	0.38		0.15

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# Natural Gas Royalty Trusts

A Weekly Analysis

April 15, 2002

Table CRT-2  
Cross Timbers Royalty Trust  
Distributable Income

	<i>Q1</i> 3/31/01	<i>Q2</i> 6/30/01	<i>Q3</i> 9/30/01	<i>Q4</i> 12/31/01	<i>Year</i> 2001	<i>Q1E</i> 3/31/02	<i>Q2E</i> 6/30/02	<i>Q3E</i> 9/30/02	<i>Q4E</i> 12/31/02	<i>Year</i> 2002E	<i>Q1E</i> 3/31/03	<i>Next Twelve Months</i> 3/31/03
<b>Highlights</b>												
Tax credit (\$mm)												
Per unit	0.02	0.03	0.03	0.03	0.11	0.03	0.03	0.03	0.03	0.11		0.08
Distributable Income (\$mm)	4.05	4.18	3.40	2.58	14.21	1.80	1.99	2.49	2.50	8.78	2.60	9.57
Per unit	0.67	0.70	0.57	0.43	2.37	0.30	0.33	0.42	0.42	1.46	0.43	1.60
<b>Units</b> (millions)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
<b>Volume</b>												
Natural Gas (bcf)	0.66	0.71	0.79	0.77	2.93	0.76	0.75	0.76	0.76	3.03	0.76	3.03
Natural Gas (mmcfd)	7.2	7.8	8.6	8.4	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Days	92	90	91	92	365	92	90	91	92	365	92	365
Oil (mb)	83	79	90	99	351	88	85	88	88	350	88	350
Oil (mbd)	0.90	0.89	0.98	1.08	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Days	92	89	92	92	365	92	89	92	92	365	92	365
Total (bcf)	1.16	1.18	1.33	1.37	5.03	1.29	1.26	1.29	1.29	5.13	1.29	5.13
<b>Price</b>												
Natural Gas (HH lagged three months)												
Henry Hub (\$/mmbtu)	6.52	6.31	4.36	2.75	4.98	2.41	2.53	3.18	3.20	2.83	3.46	3.09
Differential (\$/mmbtu)	0.41	(0.48)	(0.41)	(0.24)	(0.11)	-	-	-	-	(0.00)	-	(0.00)
CRT (\$/mcf)	6.11	6.79	4.77	2.99	5.09	2.41	2.53	3.18	3.20	2.83	3.46	3.10
Oil (\$/bbl) (WTI lagged two months)												
WTI Cushing	30.84	28.09	27.56	25.28	27.94	19.56	23.58	24.97	24.53	23.16	23.82	24.22
CRT	28.73	24.92	24.07	22.75	24.99	17.56	21.58	22.97	22.53	21.16	21.82	22.23
Total (\$/mcf)	5.54	5.73	4.46	3.34	4.70	2.62	2.96	3.45	3.43	3.12	3.53	3.34
<b>Revenue (\$mm)</b>												
Natural Gas	4.05	4.79	3.75	2.31	14.91	1.84	1.89	2.40	2.45	8.58	2.64	9.38
Oil	2.38	1.98	2.16	2.25	8.77	1.55	1.84	2.03	1.99	7.41	1.93	7.79
Total	6.43	6.77	5.91	4.56	23.68	3.39	3.73	4.43	4.44	15.99	4.57	17.17
<b>Cost (\$mm)</b>												
Tax, transport & other	0.84	0.89	0.87	0.69	3.30	0.47	0.52	0.62	0.62	2.24	0.64	2.40
Production	0.71	0.74	0.73	0.73	2.91	0.73	0.71	0.73	0.73	2.91	0.73	2.91
Total	1.55	1.63	1.60	1.42	6.20	1.21	1.23	1.35	1.35	5.15	1.37	5.31
<b>Cash flow (\$mm)</b>												
Development	0.16	0.41	0.40	0.16	1.13	0.20	0.20	0.20	0.20	0.80	0.20	0.80
Net proceeds (\$mm)	4.72	4.73	3.91	2.98	16.34	1.98	2.30	2.88	2.88	10.04	2.99	11.05
<b>Royalty income (\$mm)</b>												
Royalty/Net proceeds	4.11	4.22	3.45	2.61	14.39	1.75	2.03	2.53	2.54	8.84	2.64	9.73
Administration	87%	89%	88%	88%	88%	88%	88%	88%	88%	88%	88%	88%
Administration	0.06	0.04	0.05	0.03	0.18	(0.06)	0.04	0.04	0.04	0.06	0.04	0.16
<b>Distributable income (\$mm)</b>	4.05	4.18	3.40	2.58	14.21	1.80	1.99	2.49	2.50	8.78	2.60	9.57
<i>Modeling ratios</i>												
Tax and other/revenue	0.13	0.13	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Production exp (\$/bbl)	8.58	9.29	8.12	7.37	8.28	8.30	8.30	8.30	8.30	8.30	8.30	8.30

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**Table HGT-1**  
**Hugoton Royalty Trust**  
**Present Value**

Volume Decline (%/yr):	10	Price Escalation Post 2007 (%/yr):	2.8									
Volume Enhancement (%/yr):	10	Discount rate (%/yr):	6.6									
Capex/Cash Flow (%):	30	U.S. TIPS Inflation (%/yr):	2.0									
Variable Cost (%):	17	U.S. 10 Year Yield (%/yr):	5.2									
PV/Volume (\$/mcf):	1.12	PV/EBITDA 2002:	10.9									
Year	Basic (bcf)	Volume Enhanced (bcf)	Total (bcf)	Price (\$/mcf)	Revenue (\$mm)	Fixed Cost (\$mm)	Var Cost (\$mm)	Cap Ex (\$mm)	Distribution (\$mm)	Tax Credit (\$/unit)	Disc Factor	Present Value (\$/unit)
Total 2002 through 2031												
	295	256	551	4.05	2234	454	380	220	1179	29.48	0.02	0.52
2002	30.8	0.0	30.8	2.80	86.3	15.1	14.7	18.3	38.2	0.95	0.02	0.97
2003	27.7	3.1	30.8	3.23	99.5	15.1	16.9	20.2	47.2	1.18		0.91
2004	24.9	5.9	30.8	3.30	101.5	15.1	17.3	20.7	48.4	1.21		0.85
2005	22.4	8.3	30.8	3.34	102.9	15.1	17.5	21.1	49.2	1.23		0.80
2006	20.2	10.6	30.8	3.41	104.9	15.1	17.8	21.6	50.3	1.26		0.75
2007	18.2	12.6	30.8	3.48	107.3	15.1	18.2	22.2	51.7	1.29		0.70
2008	16.4	14.4	30.8	3.58	110.3	15.1	18.7	22.9	53.5	1.34		0.66
2009	14.7	16.1	30.8	3.68	113.4	15.1	19.3	23.7	55.3	1.38		0.62
2010	13.3	17.5	30.8	3.79	116.6	15.1	19.8	24.5	57.1	1.43		0.58
2011	11.9	18.9	30.8	3.89	119.9	15.1	20.4	25.3	59.0	1.48		0.54
2012	10.7	17.0	27.7	4.00	110.9	15.1	18.9		76.9	1.92		0.51
2013	9.7	15.3	24.9	4.12	102.6	15.1	17.5		70.0	1.75		0.48
2014	8.7	13.7	22.4	4.23	95.0	15.1	16.1		63.7	1.59		0.45
2015	7.8	12.4	20.2	4.35	87.9	15.1	14.9		57.8	1.45		0.42
2016	7.0	11.1	18.2	4.47	81.3	15.1	13.8		52.4	1.31		0.40
2017	6.3	10.0	16.4	4.60	75.3	15.1	12.8		47.3	1.18		0.37
2018	5.7	9.0	14.7	4.73	69.7	15.1	11.8		42.7	1.07		0.35
2019	5.1	8.1	13.3	4.86	64.5	15.1	11.0		38.3	0.96		0.33
2020	4.6	7.3	11.9	5.00	59.6	15.1	10.1		34.4	0.86		0.31
2021	4.2	6.6	10.7	5.14	55.2	15.1	9.4		30.7	0.77		0.29
2022	3.7	5.9	9.7	5.29	51.1	15.1	8.7		27.2	0.68		0.27
2023	3.4	5.3	8.7	5.44	47.3	15.1	8.0		24.1	0.60		0.25
2024	3.0	4.8	7.8	5.59	43.7	15.1	7.4		21.2	0.53		0.24
2025	2.7	4.3	7.0	5.75	40.5	15.1	6.9		18.4	0.46		0.22
2026	2.5	3.9	6.3	5.91	37.5	15.1	6.4		15.9	0.40		0.21
2027	2.2	3.5	5.7	6.07	34.7	15.1	5.9		13.6	0.34		0.20
2028	2.0	3.1	5.1	6.25	32.1	15.1	5.5		11.5	0.29		0.18
2029	1.8	2.8	4.6	6.42	29.7	15.1	5.0		9.5	0.24		0.17
2030	1.6	2.5	4.2	6.60	27.5	15.1	4.7		7.6	0.19		0.16
2031	1.5	2.3	3.7	6.79	25.4	15.1	4.3		5.9	0.15		0.15

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**Table HGT-2**  
Hugoton Royalty Trust  
Distributable Income

	Q1 3/31/01	Q2 6/30/01	Q3 9/30/01	Q4 12/31/01	Year 2001	Q1E 3/31/02	Q2E 6/30/02	Q3E 9/30/02	Q4E 12/31/02	Year 2002E	Q1E 3/31/03	Next Twelve Months 3/31/03
<b>Highlights</b>												
Revenue (\$mm) (80%)	48.8	39.5	27.9	18.5	134.7	18.6	20.5	23.4	23.7	86.3	26.5	94.2
Cash flow (\$mm) (80%)	39.4	30.5	20.4	12.9	103.2	11.6	13.2	15.6	15.9	56.4	18.4	63.2
Per unit	0.98	0.76	0.51	0.32	2.58	0.29	0.33	0.39	0.40	1.41	0.46	1.58
Tax credit (\$mm)	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.2	0.2	0.7		0.5
Per unit	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02		0.01
Distributable Income (\$mm)	33.7	21.7	15.3	8.5	79.1	7.4	8.6	11.0	11.3	38.2	13.8	44.6
Per unit	0.84	0.54	0.38	0.21	1.98	0.18	0.21	0.27	0.28	0.95	0.34	1.12
<b>Units (millions)</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>		<b>40.0</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>	<b>40.0</b>
<b>Volume</b>												
Natural Gas (bcf)	9.2	8.7	9.2	9.5	36.6	9.0	8.9	9.2	9.2	36.3	9.2	36.4
Natural Gas (mmcfd)	99.9	97.8	99.8	103.5	100.3	98.1	99.8	99.8	99.8	99.4	99.8	99.8
Days	92	89	92	92	365	92	89	92	92	365	92	365
Oil (mb)	96	102	101	95	394	94	90	92	91	368	91	365
Oil (mbd)	1.0	1.1	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Days	92	89	92	92	365	92	89	92	92	365	92	365
Total (bcf)	9.8	9.3	9.8	10.1	39.0	9.6	9.4	9.7	9.7	38.5	9.7	38.6
<b>Price</b>												
Natural Gas (HH lagged two months)												
Henry Hub (\$/mmbtu)	7.57	5.30	3.67	2.53	4.77	2.34	2.86	3.16	3.22	2.90	3.63	3.22
Differential (\$/mmbtu)	1.25	(0.03)	0.16	0.35	0.46	(0.03)	0.20	0.22	0.23	0.15	0.25	0.22
HGT (\$/mcf)	6.31	5.34	3.51	2.18	4.30	2.38	2.66	2.94	2.99	2.74	3.38	2.99
Oil (\$/bbl) (WTI Cushing lagged two months)												
WTI Cushing	30.84	28.09	27.56	25.28	27.94	19.56	23.58	24.97	24.53	23.16	23.82	24.22
HGT	30.43	28.37	26.56	25.02	27.60	19.06	23.08	24.47	24.03	22.63	23.32	23.73
Total (\$/mcf)	6.24	5.30	3.57	2.30	4.32	2.43	2.72	3.01	3.05	2.80	3.41	3.05
<b>Revenue (\$mm)</b>												
Natural Gas	58.0	46.4	32.3	20.8	157.5	21.5	23.6	27.0	27.5	99.6	31.0	109.1
Oil	2.9	2.9	2.7	2.4	10.9	1.8	2.1	2.3	2.2	8.3	2.1	8.7
Total	61.0	49.3	34.9	23.2	168.4	23.3	25.7	29.3	29.7	107.9	33.1	117.8
<b>Cost (\$mm)</b>												
Tax, transport & other	5.0	5.0	3.3	2.1	15.4	2.3	2.6	2.9	3.0	10.8	3.3	11.8
Production	4.9	4.3	4.2	2.8	16.1	4.4	4.7	4.9	4.9	18.8	4.9	19.3
Overhead	1.8	1.9	2.0	2.2	7.9	2.0	1.9	1.9	1.9	7.8	1.9	7.7
Total	11.7	11.2	9.4	7.1	39.4	8.7	9.2	9.7	9.8	37.4	10.1	38.8
<b>Cash flow (\$mm)</b>	<b>49.2</b>	<b>38.1</b>	<b>25.5</b>	<b>16.1</b>	<b>129.0</b>	<b>14.5</b>	<b>16.5</b>	<b>19.5</b>	<b>19.9</b>	<b>70.5</b>	<b>23.0</b>	<b>79.0</b>
Development	7.1	11.0	6.3	5.5	29.9	5.8	5.7	5.7	5.7	22.9	5.7	22.8
<b>Net proceeds (\$mm)</b>	<b>42.1</b>	<b>27.2</b>	<b>19.2</b>	<b>10.6</b>	<b>99.1</b>	<b>8.8</b>	<b>10.8</b>	<b>13.8</b>	<b>14.2</b>	<b>47.6</b>	<b>17.3</b>	<b>56.2</b>
<b>Royalty income (\$mm)</b>	<b>33.7</b>	<b>21.7</b>	<b>15.4</b>	<b>8.5</b>	<b>79.3</b>	<b>7.0</b>	<b>8.6</b>	<b>11.1</b>	<b>11.4</b>	<b>38.1</b>	<b>13.8</b>	<b>44.9</b>
Royalty/Net proceeds	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
Administration	0.0	0.0	0.1	0.0	0.2	(0.3)	0.1	0.1	0.1	(0.1)	0.1	0.3
<b>Distributable income (\$mm)</b>	<b>33.7</b>	<b>21.7</b>	<b>15.3</b>	<b>8.5</b>	<b>79.1</b>	<b>7.4</b>	<b>8.6</b>	<b>11.0</b>	<b>11.3</b>	<b>38.2</b>	<b>13.8</b>	<b>44.6</b>
<i>Cost ratios</i>												
Tax and other/revenue	8%	10%	9%	9%	9%	10%	10%	10%	10%	10%	10%	10%
Production cost (\$/mcf)	0.50	0.46	0.42	0.28	0.41	0.46	0.50	0.50	0.50	0.49	0.50	0.50
Overhead cost (\$/mcf)	0.19	0.21	0.20	0.22	0.20	0.21	0.20	0.20	0.20	0.20	0.20	0.20
Development/Cash flow	0.14	0.29	0.25	0.34	0.23	0.40	0.35	0.29	0.29	0.32	0.25	0.29

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# Natural Gas Royalty Trusts

## A Weekly Analysis

April 15, 2002

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

Volume Decline (%/yr):	10	Price Escalation Post 2007 (%/yr):	2.8									
Volume Enhancement (%/yr):	10	Discount rate (%/yr):	6.6									
Capex/Cash Flow (%):	25	U.S. TIPS Inflation (%/yr):	2.0									
Variable Cost (%):	11	U.S. 10 Year Yield (%/yr):	5.2									
PV/Volume (\$/mcf):	1.18	PV/EBITDA 2002:	11.7									
Year	Basic (bcf)	Enhanced (bcf)	Volume (bcf)	Price (\$/mcf)	Revenue (\$mm)	Fixed Cost (\$mm)	Var Cost (\$mm)	Cap Ex (\$mm)	Distribution (\$mm)	Tax Credit (\$/unit)	Disc Factor	Present Value (\$/unit)
Total 2002 through 2031	318	276	594	3.70	2198	409	242	204	1343	28.82	0.12	0.52
												15.10
2002	33.2	0.0	33.2	2.49	82.7	13.6	9.1	20.6	39.3	0.84	0.12	0.97
2003	29.9	3.3	33.2	2.95	98.0	13.6	10.8	18.4	55.2	1.18	0.12	0.91
2004	26.9	6.3	33.2	3.01	100.0	13.6	11.0	18.8	56.5	1.21	0.12	0.85
2005	24.2	9.0	33.2	3.06	101.4	13.6	11.2	19.1	57.4	1.23	0.12	0.80
2006	21.8	11.4	33.2	3.11	103.3	13.6	11.4	19.6	58.7	1.26	0.12	0.75
2007	19.6	13.6	33.2	3.18	105.6	13.6	11.6	20.1	60.3	1.29	0.12	0.70
2008	17.6	15.5	33.2	3.27	108.6	13.6	11.9	20.8	62.3	1.34	0.12	0.66
2009	15.9	17.3	33.2	3.37	111.7	13.6	12.3	21.4	64.3	1.38	0.12	0.62
2010	14.3	18.9	33.2	3.46	114.8	13.6	12.6	22.1	66.4	1.43	0.12	0.58
2011	12.9	20.3	33.2	3.56	118.1	13.6	13.0	22.9	68.6	1.47	0.12	0.54
2012	11.6	18.3	29.9	3.66	109.3	13.6	12.0		83.6	1.79	0.12	0.51
2013	10.4	16.5	26.9	3.76	101.1	13.6	11.1		76.3	1.64	0.12	0.48
2014	9.4	14.8	24.2	3.87	93.6	13.6	10.3		69.6	1.49	0.12	0.45
2015	8.4	13.3	21.8	3.98	86.6	13.6	9.5		63.4	1.36	0.12	0.42
2016	7.6	12.0	19.6	4.09	80.1	13.6	8.8		57.7	1.24	0.12	0.40
2017	6.8	10.8	17.6	4.20	74.1	13.6	8.2		52.3	1.12	0.12	0.37
2018	6.1	9.7	15.9	4.32	68.6	13.6	7.5		47.4	1.02	0.12	0.35
2019	5.5	8.8	14.3	4.44	63.5	13.6	7.0		42.9	0.92	0.12	0.33
2020	5.0	7.9	12.9	4.57	58.8	13.6	6.5		38.6	0.83	0.12	0.31
2021	4.5	7.1	11.6	4.70	54.4	13.6	6.0		34.7	0.75	0.12	0.29
2022	4.0	6.4	10.4	4.83	50.3	13.6	5.5		31.1	0.67	0.12	0.27
2023	3.6	5.7	9.4	4.97	46.6	13.6	5.1		27.8	0.60	0.12	0.25
2024	3.3	5.2	8.4	5.11	43.1	13.6	4.7		24.7	0.53	0.12	0.24
2025	2.9	4.7	7.6	5.25	39.9	13.6	4.4		21.8	0.47	0.12	0.22
2026	2.6	4.2	6.8	5.40	36.9	13.6	4.1		19.2	0.41	0.12	0.21
2027	2.4	3.8	6.1	5.55	34.1	13.6	3.8		16.7	0.36	0.12	0.20
2028	2.1	3.4	5.5	5.71	31.6	13.6	3.5		14.5	0.31	0.12	0.18
2029	1.9	3.1	5.0	5.87	29.2	13.6	3.2		12.4	0.27	0.12	0.17
2030	1.7	2.7	4.5	6.04	27.1	13.6	3.0		10.4	0.22	0.12	0.16
2031	1.6	2.5	4.0	6.21	25.0	13.6	2.8		8.6	0.19	0.12	0.15
												0.03

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# Natural Gas Royalty Trusts

## A Weekly Analysis

April 15, 2002

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

	Q1 3/31/01	Q2 6/30/01	Q3 9/30/01	Q4 12/31/01	Year 2001	Q1E 3/31/02	Q2E 6/30/02	Q3E 9/30/02	Q4E 12/31/02	Year 2002E	Q1E 3/31/03	Next Twelve Months 3/31/03
<b>Highlights</b>												
Revenue (\$mm) (75%)	49.6	38.7	25.5	14.8	128.5	19.1	18.6	22.3	22.6	82.7	25.5	89.0
Cash flow (\$mm) (75%)	42.2	31.9	20.0	10.1	104.3	14.1	13.7	17.3	17.6	62.7	20.2	68.8
Per unit	0.91	0.69	0.43	0.22	2.24	0.30	0.29	0.37	0.38	1.34	0.43	1.48
Tax credit (\$mm)	1.9	1.9	1.4	1.4	6.5	1.4	1.4	1.4	1.4	5.6		4.2
Per unit	0.04	0.04	0.03	0.03	0.14	0.03	0.03	0.03	0.03	0.12		0.09
Distributable Income (\$mm)	37.3	26.3	13.7	2.9	80.1	3.5	10.1	12.8	13.0	39.3	14.9	50.8
Per unit	0.80	0.56	0.29	0.06	1.72	0.08	0.22	0.27	0.28	0.84	0.32	1.09
<b>Units (millions)</b>	<b>46.6</b>	<b>46.6</b>	<b>46.6</b>	<b>46.6</b>								
<b>Volume</b>												
Natural gas (mmbtu)	11.8	11.3	11.9	11.3	46.4	12.5	11.5	11.9	11.9	47.7	11.9	47.1
Heat Content(btu/cf)	1,052	1,095	1,070	1,106	1,080	1,092	1,090	1,090	1,090	1,091	1,090	1,090
Natural gas (bcf)	11.3	10.4	11.1	10.2	43.0	11.5	10.5	10.9	10.9	43.8	10.9	43.2
Natural Gas (mmcfd)	122.4	116.4	120.6	111.4	117.7	124.7	118.3	118.3	118.3	119.9	118.3	118.3
Days	92	89	92	92	365	92	89	92	92	365	92	365
Oil (mb)	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	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	0.2	0.2
Total gas & oil (bcf)	11.4	10.5	11.2	10.4	43.5	11.6	10.6	11.0	11.0	44.2	11.0	43.7
<b>Price</b>												
Natural gas (\$/mmbtu) (Henry Hub lagged two months)												
Henry Hub (\$/mmbtu)	7.57	5.30	3.67	2.53	4.77	2.34	2.86	3.16	3.22	2.90	3.63	3.22
Differential (%)	27	15	23	33	24	14	25	22	22	21	22	23
Total	5.53	4.49	2.82	1.69	3.65	2.01	2.13	2.47	2.51	2.28	2.83	2.49
Natural gas (\$/mcf)	5.81	4.92	3.02	1.87	3.94	2.20	2.32	2.69	2.74	2.48	3.09	2.71
Oil (\$/bbl) (WTI Cushing lagged two months)												
WTI Cushing	28.79	28.09	27.56	25.28	27.43	19.56	23.58	24.97	24.53	23.16	23.82	24.22
SJT	26.90	24.60	23.72	24.49	24.99	15.56	19.58	20.97	20.53	19.16	19.82	20.23
Total gas & oil (\$/mcf)	5.79	4.91	3.03	1.90	3.94	2.20	2.33	2.70	2.74	2.49	3.09	2.72
<b>Revenue (\$mm)</b>												
Natural Gas	65.5	50.9	33.5	19.2	169.1	25.2	24.4	29.3	29.8	108.7	33.6	117.1
Oil	0.7	0.6	0.5	0.5	2.3	0.3	0.4	0.4	0.4	1.6	0.4	1.6
Total	66.1	51.6	34.0	19.7	171.4	25.5	24.8	29.7	30.2	110.2	34.0	118.7
<b>Cost (\$mm)</b>												
Severance tax	6.5	5.2	3.7	2.1	17.4	2.6	2.6	3.0	3.0	11.2	3.4	12.0
Operating	3.3	3.8	3.7	4.2	14.9	4.1	3.9	3.7	3.7	15.5	3.7	15.0
Total	9.8	9.0	7.3	6.2	32.3	6.7	6.5	6.7	6.7	26.6	7.1	27.0
<b>Cash flow (\$mm)</b>	<b>56.3</b>	<b>42.6</b>	<b>26.7</b>	<b>13.5</b>	<b>139.1</b>	<b>18.8</b>	<b>18.3</b>	<b>23.0</b>	<b>23.5</b>	<b>83.6</b>	<b>26.9</b>	<b>91.7</b>
Development	6.3	7.1	8.1	11.5	33.0	11.3	4.5	5.8	5.9	27.5	6.7	22.9
<b>Net proceeds (\$mm)</b>	<b>50.0</b>	<b>35.5</b>	<b>18.6</b>	<b>1.9</b>	<b>106.1</b>	<b>7.5</b>	<b>13.8</b>	<b>17.3</b>	<b>17.6</b>	<b>56.1</b>	<b>20.2</b>	<b>68.9</b>
<b>Royalty income (\$mm)</b>	<b>37.5</b>	<b>26.6</b>	<b>14.0</b>	<b>1.4</b>	<b>79.5</b>	<b>5.6</b>	<b>10.3</b>	<b>13.0</b>	<b>13.2</b>	<b>42.1</b>	<b>15.1</b>	<b>51.6</b>
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	3.0
Administration	0.2	0.4	0.3	(1.5)	(0.6)	2.1	0.3	0.2	0.2	2.8	0.2	0.9
One-time	-	-	-	-	-	-	-	-	-	-	-	-
<b>Distributable income (\$mm)</b>	<b>37.3</b>	<b>26.3</b>	<b>13.7</b>	<b>2.9</b>	<b>80.1</b>	<b>3.5</b>	<b>10.1</b>	<b>12.8</b>	<b>13.0</b>	<b>39.3</b>	<b>14.9</b>	<b>50.8</b>
<i>Modeling ratios</i>												
Severance tax/revenue	9.9%	10.0%	10.7%	10.5%	10.2%	10.2%	10.3%	10.0%	10.0%	10.1%	10.0%	10.1%
Operating cost (\$/mcf)	0.29	0.36	0.33	0.40	0.34	0.36	0.37	0.34	0.34	0.35	0.34	0.34

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# Natural Gas Royalty Trusts

A Weekly Analysis

April 15, 2002

**Table SJT-3**  
**San Juan Basin Royalty Trust**  
**Monthly Declarations**

	Dec-00	Apr-01	May-01	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02
<b>Distribution (\$/unit)</b>									
Declared	0.15	0.22	0.17	-	0.01	0.06		0.04	0.08
Projected									0.10
<b>Volume</b>									
Natural gas (mmbtu)	3.93	3.31	4.16	3.87	4.46	4.19	3.61	4.00	3.87
Heat Content(btu/cf)	1,079	1,076	1,063	1,088	1,099	1,087	1,090	1,090	1,090
Natural gas (bcf)	3.64	3.08	3.91	3.56	4.05	3.86	3.31	3.67	3.55
Natural Gas (mmcfd)	117	110	126	119	131	124	118	118	118
Days	31	28	31	30	31	31	28	31	30
<b>Price</b>									
Natural gas industry quotes lagged two months (\$/mmbtu)									
Henry Hub Daily/Futures	5.02	5.59	5.16	2.36	2.41	2.25	2.31	3.03	3.23
San Juan Monthly Index	4.47	6.55	4.88	2.69	2.32	2.42	1.81	2.14	3.04
SJT/Henry Hub	0.81	1.02	0.76	0.90	0.77	0.92	0.73	0.70	0.80
SJT/San Juan Index	0.91	0.87	0.81	0.79	0.80	0.86	0.93	0.98	0.84
SJT (\$/mmbtu)	4.08	5.69	3.94	2.12	1.86	2.08	1.68	2.10	2.57
SJT (\$/mcf)	4.41	6.13	4.19	2.31	2.04	2.26	1.83	2.29	2.80
<b>Revenue (\$mm)</b>									
Natural Gas	16.1	18.9	16.4	8.2	8.3	8.7	6.1	8.4	9.9
Other	0.5	0.0	0.2	(1.7)	(0.5)	(0.2)	-	-	-
<b>Cost (\$mm)</b>									
Severance tax	1.3	1.9	1.7	0.9	0.9	0.9	0.6	0.9	1.0
Operating	1.1	1.2	1.3	1.4	1.5	1.2	1.3	1.3	1.3
Total	2.4	3.1	3.0	2.3	2.3	2.1	2.0	2.2	2.4
<b>Cash flow (\$mm)</b>									
Development	4.9	1.9	2.8	4.2	4.8	2.4	1.5	1.5	1.5
<b>Net proceeds (\$mm)</b>	9.3	13.9	10.7	-	0.7	4.0	2.6	4.7	6.1
<b>Royalty income (\$mm)</b>	7.0	10.4	8.0	-	0.5	3.0	2.0	3.5	4.6
Royalty/Net proceeds	75%	75%	75%	75%	75%	75%	75%	75%	75%
<b>Distributable income (\$mm)</b>	7.0	10.4	8.0	-	0.5	3.0	2.0	3.5	4.6
<b>Units (millions)</b>	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
<i>Latest Twelve Month Average</i>									
Heat Content(btu/cf)	1,064	1,064	1,065	1,081	1,088	1,090			
Natural Gas (mmcfd)	115	118	119	118	118	118			
SJT/Henry Hub	0.81	0.78	0.78	0.77	0.79	0.79			
SJT/San Juan Index	0.90	0.88	0.87	0.84	0.84	0.85			
Other revenue				0.1	0.0	0.0			
Operating	1.2	1.2	1.1	1.3	1.3	1.3			
Development	2.1	2.3	2.4	2.8	3.1	3.2			
Severance tax/revenue				10.3%	10.4%	10.5%			

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