

Analysis of Oil & Gas Stocks
December 3, 2010

Range (RRC) and Petrohawk (HK) New Buys – Selling Pressure Exhausted

Summary and Recommendation

Well-known stocks in the 2000s cycle, shale gas pioneers **Petrohawk Energy Corporation** (HK) and Range Resources Corporation (RRC) may have begun new advances in a 2010s cycle as months of selling pressure appears exhausted. Selling pressure kept stock price below the 200-day average for longer than for most stocks in our small cap and income coverage. McDep Ratios have also realigned more closely. Yet the long-term upside not captured in today's McDep Ratio remains impressive. Shale gas resources are greater than conventional resources with a key distinction. Developed long-life mature resources keep producing with minimal volume decline. Because early-stage shale gas production declines rapidly, it requires new drilling to be sustained. Low natural gas price makes drilling less attractive at the same time oil shale drilling drives up the price of fracturing services required to complete new wells. The imbalances are in a correction process that is taking time to unfold. With free money from the U.S. Federal Reserve acting as the global central banker, it costs nothing to wait longer, if necessary. Always believing in the long-term value of natural gas resources, we think the timing is good to initiate buy recommendations on RRC, the first horizontal driller of the Marcellus Shale, and HK, a pioneer in the Haynesville Shale and first horizontal driller of the Eagle Ford Shale.

Raise NPV on Abundant Natural Gas Resources

Looking just at the volume of natural gas in place on RRC and HK leases, we can see potential value that might readily justify higher estimates than our revised Net Present Value (NPV) for RRC of \$45 a share, up from \$40 and for HK of \$20 a share, up from \$16. Instead we limit our value to multiples of cash flow that buyers might pay today for future returns that depend on intensive investment to realize. Those multiples (PV/Ebitda) are 15 for RRC and 11 for HK (see statistical summaries on page 2). At the same time cash flow estimates ought to be exceeded as we have not incorporated all of management guidance toward higher volume (see tables Next Twelve Months Operating and Financial Performance on pages 3 and 4).

McDep Ratios of 0.98 and 0.97 point to competitive value among Income and Small Cap stocks in our coverage (see <u>Tables 1-2</u> on pages 5-6). PV/Ebitda for RRC at the high end of the range illustrates the limit we applied (see <u>Table 3</u> on page 7). PV/Ebitda for HK is limited by more rapidly declining existing production indicated by a shorter life of reported reserves (Adjusted Reserves/Production). All 25 peer stocks are in upward price trends compared to 200-day averages (see <u>Table 4</u> on page 8). Introductory research on RRC and HK is archived on www.mcdep.com.

Kurt H. Wulff, CFA



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Range Resources Corporation

| Symbol | RRC | Ebitda Next Twelve Months ending 12/31/11 (US\$mn | 594 |
|------------------------------|-------------|---|----------|
| Rating | Buy | North American Natural Gas/Ebitda (%) | 65 |
| Price (\$/sh) | 43.99 | Natural Gas and Oil Production/Ebitda (%) | 100 |
| Pricing Date | 12/2/10 | Adjusted Reserves/Production NTM | 11.8 |
| Shares (mm) | 157 | EV/Ebitda | 15.2 |
| Market Capitalization (\$mm) | 6,910 | PV/Ebitda | 15.4 |
| Debt (\$mm) | 2,090 | Undeveloped Reserves (%) | 45 |
| Enterprise Value (EV) (\$mm) | 9,000 | Natural Gas and Oil Ebitda (\$/boe) | 17.30 |
| Present Value (PV) (\$mm) | 9,160 | Present Value Proven Reserves(\$/boe) | 17.60 |
| Net Present Value (\$/share) | 45 | Oil and Gas Ebitda Margin (%) | 61 |
| Debt/Present Value | 0.23 | Earnings Next Twelve Months (US\$/sh) | 0.12 |
| McDep Ratio - EV/PV | 0.98 | Price/Earnings Next Twelve Months | 353 |
| Dividend Yield (%/year) | 0.4 | Indicated Annual Dividend (US\$/sh) | 0.16 |
| Note: Estimated cash flow ar | nd earnings | tied to one-year futures prices for oil and natural gas. | |
| Reported results may v | ary widely | from estimates. Estimated present value per share revised only infred | quently. |
| Estimated present valu | e presumes | a long-term price for oil of US\$75 a barrel and natural gas, \$8 a million | ı btu. |

Petrohawk Energy Corporation

| Symbol | HK | Ebitda Next Twelve Months ending 12/31/11 (US\$mn | 841 |
|------------------------------|------------------|---|---------|
| Rating | Buy | North American Natural Gas/Ebitda (%) | 89 |
| Price (\$/sh) | 18.98 | Natural Gas and Oil Production/Ebitda (%) | 100 |
| Pricing Date | 12/2/10 | Adjusted Reserves/Production NTM | 7.0 |
| Shares (mm) | 302 | EV/Ebitda | 10.8 |
| Market Capitalization (\$mm) | 5,730 | PV/Ebitda | 11.2 |
| Debt (\$mm) | 3,400 | Undeveloped Reserves (%) | 67 |
| Enterprise Value (EV) (\$mm) | 9,130 | Natural Gas and Oil Ebitda (\$/boe) | 19.50 |
| Present Value (PV) (\$mm) | 9,440 | Present Value Proven Reserves(\$/boe) | 20.60 |
| Net Present Value (\$/share) | 20 | Oil and Gas Ebitda Margin (%) | 72 |
| Debt/Present Value | 0.36 | Earnings Next Twelve Months (US\$/sh) | 0.26 |
| McDep Ratio - EV/PV | 0.97 | Price/Earnings Next Twelve Months | 73 |
| Dividend Yield (%/year) | 0.0 | Indicated Annual Dividend (US\$/sh) | 0.00 |
| Note: Estimated cash flow an | nd earnings tied | to one-year futures prices for oil and natural gas. | |
| Reported results may v | ary widely from | estimates. Estimated present value per share revised only infrequ | uently. |
| Estimated present valu | e presumes a lor | ng-term price for oil of US\$75 a barrel and natural gas, \$8 a million | btu. |



| | | Range | Resources | s Corpor | ation | | | | |
|----------------------------|----------|---------|------------|----------|---------|---------|---------|----------|-------|
| | Next Two | | s Operatin | | | timates | | | |
| | | | • | 8 | | | | | |
| | | | | | | | | | |
| | Q4 | Q3 | Q4E | Year | Q1E | Q2E | Q3E | Q4E | Year |
| | 12/31/09 | 9/30/10 | 12/31/10 | 2010 | 3/31/11 | 6/30/11 | 9/30/11 | 12/31/11 | 2011E |
| Volume | | | | | | | | | |
| Natural Gas (mmcfd) | 374 | 389 | 389 | 384 | 450 | 450 | 450 | 450 | 450 |
| Oil (mbd) | 13.7 | 18.9 | 18.9 | 17.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| Total (mb) | 7.0 | 7.7 | 7.7 | 30 | 8.5 | 8.6 | 8.6 | 8.6 | 34 |
| Total (mbd) | 76 | 84 | 84 | 81 | 94 | 94 | 94 | 94 | 94 |
| Price | | | | | | | | | |
| Henry Hub (\$/mmbtu) | 4.16 | 4.38 | 3.78 | 4.39 | 4.22 | 4.21 | 4.35 | 4.72 | 4.38 |
| Differential (\$/mmbtu) | 0.32 | 0.76 | 0.66 | 0.62 | 0.73 | 0.73 | 0.30 | 0.33 | 0.52 |
| Company (\$/mcf) | 3.84 | 3.62 | 3.13 | 3.77 | 3.49 | 3.48 | 4.05 | 4.39 | 3.86 |
| WTI Cushing (\$/bbl) | 76.09 | 76.08 | 83.97 | 79.14 | 86.48 | 87.31 | 87.96 | 88.42 | 87.54 |
| Differential | 24.11 | 33.41 | 36.88 | 31.73 | 37.98 | 38.35 | 38.63 | 38.84 | 38.45 |
| Company (\$/bbl) | 51.98 | 42.67 | 47.09 | 47.41 | 48.50 | 48.96 | 49.33 | 49.59 | 49.10 |
| Total (\$/bbl) | 28.26 | 26.45 | 25.16 | 27.82 | 26.52 | 26.57 | 29.35 | 31.05 | 28.39 |
| Revenue (\$mm) | | | | | | | | | |
| Natural Gas | 132 | 130 | 112 | 528 | 141 | 143 | 168 | 182 | 633 |
| Oil | 66 | 74 | 82 | 294 | 83 | 85 | 86 | 87 | 340 |
| Total | 198 | 204 | 194 | 822 | 224 | 227 | 254 | 269 | 974 |
| Expense | | | | | | | | | |
| Lease operating | 32 | 34 | | | | | | | |
| Production taxes | 9 | 9 | | | | | | | |
| General and administrative | 32 | 37 | | | | | | | |
| Total | 73 | 80 | 76 | 287 | 87 | 89 | 99 | 105 | 380 |
| Ebitda | 125 | 124 | 118 | 535 | 137 | 139 | 155 | 164 | 594 |
| Exploration | 11 | 15 | 15 | 57 | 15 | 15 | 15 | 15 | 60 |
| Deprec., Deplet., & Amort. | 93 | 92 | 92 | 364 | 92 | 92 | 92 | 92 | 368 |
| Other | (89) | (46) | | (83) | | | | | - |
| Ebit | 110 | 63 | 11 | 197 | 30 | 32 | 48 | 57 | 166 |
| Interest | 31 | 34 | 34 | 129 | 34 | 34 | 34 | 34 | 136 |
| Ebt | 79 | 29 | (23) | 68 | (4) | (2) | 14 | 23 | 30 |
| Income Tax | 28 | 10 | (8) | 24 | (1) | (1) | 5 | 8 | 11 |
| Net Income (\$mm) | 51 | 19 | (15) | 44 | (3) | (2) | 9 | 15 | 20 |
| Per Share (\$) | 0.32 | 0.12 | (0.09) | 0.28 | (0.02) | (0.01) | 0.06 | 0.09 | 0.12 |
| Shares (millions) | 160 | 157 | 157 | 159 | 157 | 157 | 157 | 157 | 157 |
| Ebitda Margin | 63% | 61% | 61% | 65% | 61% | 61% | 61% | 61% | 61% |
| Tax rate | 35% | 35% | 35% | 35% | 35% | 35% | 35% | 35% | 35% |



| | | Petrol | hawk Energ | y Corpor | ation | | | | |
|----------------------------|----------|---------|-------------|----------|---------|---------|---------|----------|-------|
| | Next Tw | | hs Operatir | | | timates | | | |
| | | | _ | _ | | | | | |
| | | | | | | | | | |
| | Q4 | Q3 | Q4E | Year | Q1E | Q2E | Q3E | Q4E | Year |
| | 12/31/09 | 9/30/10 | 12/31/10 | 2010 | 3/31/11 | 6/30/11 | 9/30/11 | 12/31/11 | 2011E |
| Volume | | | | | | | | | |
| Natural Gas (mmcfd) | 576 | 654 | 680 | 636 | 680 | 680 | 680 | 680 | 680 |
| Oil (mbd) | 3.4 | 5.2 | 5.2 | 4.4 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| Total (mb) | 9.1 | 10.5 | 10.9 | 40 | 10.7 | 10.8 | 10.9 | 10.9 | 43 |
| Total (mbd) | 99 | 114 | 119 | 110 | 119 | 119 | 119 | 119 | 119 |
| Price | | | | | | | | | |
| Henry Hub (\$/mmbtu) | 4.16 | 4.38 | 3.78 | 4.39 | 4.22 | 4.21 | 4.35 | 4.72 | 4.38 |
| Differential (\$/mmbtu) | 0.08 | 0.18 | 0.16 | 0.18 | 0.17 | 0.17 | 0.18 | 0.19 | 0.18 |
| Company (\$/mcf) | 4.08 | 4.20 | 3.63 | 4.22 | 4.05 | 4.04 | 4.18 | 4.53 | 4.20 |
| WTI Cushing (\$/bbl) | 76.09 | 76.08 | 83.97 | 79.14 | 86.48 | 87.31 | 87.96 | 88.42 | 87.54 |
| Differential | 3.44 | 17.96 | 19.83 | 16.77 | 20.42 | 20.62 | 20.77 | 20.88 | 20.67 |
| Company (\$/bbl) | 72.65 | 58.12 | 64.14 | 62.37 | 66.06 | 66.69 | 67.19 | 67.54 | 66.88 |
| Total (\$/bbl) | 26.14 | 26.69 | 23.62 | 26.77 | 26.13 | 26.09 | 26.89 | 28.94 | 27.02 |
| Revenue (\$mm) | | | | | | | | | |
| Natural Gas | 216 | 253 | 227 | 978 | 248 | 250 | 261 | 283 | 1,042 |
| Oil | 23 | 28 | 31 | 100 | 31 | 31 | 32 | 32 | 126 |
| Total | 239 | 280 | 257 | 1,078 | 279 | 281 | 293 | 315 | 1,169 |
| Expense | | | | | | | | | |
| Lease operating | 24 | 19 | | | | | | | |
| Production taxes | 18 | (3) | | | | | | | |
| General and administrative | 25 | 40 | | | | | | | |
| Total | 67 | 56 | 72 | 254 | 78 | 79 | 82 | 88 | 327 |
| Ebitda | 172 | 224 | 185 | 824 | 201 | 203 | 211 | 227 | 841 |
| Deprec., Deplet., & Amort. | 106 | 108 | 108 | 423 | 108 | 108 | 108 | 108 | 432 |
| Other | (48) | (16) | | (37) | | | | | - |
| Ebit | 114 | 132 | 77 | 437 | 93 | 95 | 103 | 119 | 409 |
| Interest | 58 | 72 | 72 | 269 | 72 | 72 | 72 | 72 | 288 |
| Ebt | 56 | 60 | 5 | 168 | 21 | 23 | 31 | 47 | 121 |
| Income Tax | 20 | 21 | 2 | 59 | 7 | 8 | 11 | 17 | 43 |
| Net Income (\$mm) | 36 | 39 | 4 | 109 | 13 | 15 | 20 | 31 | 79 |
| Per Share (\$) | 0.12 | 0.13 | 0.01 | 0.36 | 0.04 | 0.05 | 0.07 | 0.10 | 0.26 |
| Shares (millions) | 302 | 302 | 302 | 303 | 302 | 302 | 302 | 302 | 302 |
| Ebitda Margin | 72% | 80% | 72% | 76% | 72% | 72% | 72% | 72% | 72% |
| Tax rate | 35% | 35% | 35% | 35% | 35% | 35% | 35% | 35% | 35% |



MCDEP Income and Small Cap Weekly Analysis of Oil & Gas Stocks

| 3.7.5 | | | | Table 1 | ~ | | | | | |
|------------------------------------|-----------------|-----|---------------|-----------|---------------------------------------|-------------------|---------------|---------|--------------|--------------|
| McD | ep Inc | om | e and S | mall (| Cap Ene | rgy Poi | rtfolio | | | |
| De | ebt, Bu | sin | ess Seg | ments | and Inc | ome Yi | eld | | | |
| | | | | | | D | 171 | | | |
| | | | n · | | | Present | | | | |
| C | ymbol/Rat | ina | Price | EV/ | Enterprise | by Segm NAmer. | ent (%) | Dist. | Dist. | |
| | | _ | | | | Natural | 0:1 | NTM | | М. D. |
| | B = CB (see bel | | 2-Dec 2010 | Market | Value | | Oil Prod'n | (\$/un) | Yield (%) | McDe Rati |
| | D (see be) | OW) | 2010 | Сар | (\$mm) | Gas | rroa n | (\$/un) | (70) | Kan |
| Canadian Income Trusts (US\$) | | | | | | | | | | |
| Pengrowth Energy Trust | PGH | | 13.19 | 1.34 | 5,300 | 34 | 66 | 0.82 | 6.2 | 1.1 |
| Enerplus Resources Fund | ERF | | 30.33 | 1.19 | 6,400 | 41 | 59 | 2.12 | 7.0 | 1.0 |
| Penn West Energy Trust | PWE | | 22.39 | 1.33 | 13,100 | 22 | 78 | 1.06 | 4.7 | 0.98 |
| Peyto Energy Trust | PEYUF | | 17.25 | 1.21 | 2,540 | 76 | 24 | 0.71 | 4.1 | 0.96 |
| Canadian Oil Sands Trust | COSWF | В | 28.23 | 1.11 | 15,200 | | 100 | 1.57 | 5.6 | 0.76 |
| Total or Median | | | | | 42,500 | | | | 5.6 | 0.98 |
| | | | | | | | | | | |
| Small Cap Independent Producers | DMD | | 10.40 | 1 44 | 11 100 | 1.0 | 0.4 | | | 1.1/ |
| Denbury Resources Inc. | DNR | | 19.40 | 1.44 | 11,190 | 16 | 84 | - | - | 1.19 |
| Whiting Petroleum Corporation | WLL | | 112.85 | 1.18 | 7,840 | 15 | 85 | - 0.20 | - | 1.16 |
| Berry Petroleum Company | BRY | - | 40.00 | 1.48 | 3,230 | 32 | 68 | 0.30 | 0.8 | 1.09 |
| Cimarex Energy Company | XEC | В | 85.83 | 1.09 | 7,990 | 58 | 42 | 0.32 | 0.4 | 1.07 |
| Range Resources | RRC | В | 43.99 | 1.30 | 9,000 | 74 | 26 | 0.16 | 0.4 | 0.9 |
| Ultra Petroleum | UPL | _ | 48.30 | 1.20 | 8,920 | 93 | 7 | - | - | 0.9 |
| Petrohawk Energy Corporation | HK | В | 18.98 | 1.59 | 9,130 | 96 | 4 | - | - | 0.9 |
| Birchcliff Energy Ltd. (US\$) | BIREF | В | 9.58 | 1.27 | 1,550 | 69 | 31 | - | - | 0.73 |
| Total or Median | | | | | 58,900 | | | | | 1.02 |
| Top Line Cash Payers | | | | | | | | | | |
| Permian Basin RT | PBT | | 22.46 | 1.00 | 1,050 | 38 | 62 | 1.47 | 6.6 | 1.25 |
| Cross Timbers Royalty Trust | CRT | | 40.93 | 1.00 | 250 | 75 | 25 | 2.58 | 6.3 | 1.21 |
| Sabine Royalty Trust | SBR | | 59.00 | 1.00 | 860 | 45 | 55 | 3.94 | 6.7 | 1.18 |
| Freehold Royalty Trust (US\$) | FRHLF | | 19.87 | 1.07 | 1,240 | 25 | 75 | 1.65 | 8.3 | 1.10 |
| Dorchester Minerals, L.P. | DMLP | В | 27.51 | 1.02 | 860 | 66 | 34 | 1.66 | 6.1 | 1.02 |
| Total or Median | | | | | 4,300 | | | | 6.6 | 1.18 |
| | | | | | | | | | | |
| Bottom Line Cash Payers | | | | | | | | | | |
| Linn Energy, LLC | LINE | | 36.48 | 1.42 | 7,580 | 45 | 55 | 2.64 | 7.2 | 1.4. |
| Vanguard Natural Resources, LLC | VNR | | 27.06 | 1.43 | 1,150 | 38 | 62 | 2.20 | 8.1 | 1.22 |
| Legacy Reserves L.P. | LGCY | | 26.06 | 1.37 | 1,430 | 17 | 83 | 2.08 | 8.0 | 1.20 |
| Encore Energy Partners, L.P. (52%) | | | 20.49 | 1.26 | 610 | 25 | 75 | 2.00 | 9.8 | 1.10 |
| Mesa RoyaltyTrust | MTR | | 49.50 | 1.00 | 92 | 75 | 25 | 3.49 | 7.0 | 1.0 |
| San Juan Basin Royalty Trust | SJT | В | 24.89 | 1.00 | 1,160 | 100 | - | 1.38 | 5.5 | 1.00 |
| Hugoton RoyaltyTrust | HGT | В | 20.53 | 1.00 | 820 | 90 | 10 | 1.28 | 6.2 | 0.9 |
| Total or Median | | | | | 12,800 | | | | 7.2 | 1.16 |
| Composite (excl COSWF) | | | | | | | | | | |
| Enterprise Value Weighting | | | | | 103,300 | 49 | 51 | | | 1.06 |
| Equal Weighting | | | | | 100,000 | 53 | 47 | | | 1.09 |
| Equal Weighted Buys | | | | | | 66 | 34 | | | 0.96 |
| Equal Heighted Days | | | | | | 00 | 34 | | | 0.70 |
| CB=Contrarian Buy, Stock Price ap | parently in | dov | vntrend co | mpared to | 200-day ave | rage. | | | | |
| McDep Ratio = Market cap and De | | | | - | · · · · · · · · · · · · · · · · · · · | | | | | |
| Present Value presumes long-term | | | | | | | ase | | | |



| Table 2 McDep Income and Small Cap Energy Portfolio | | | | | | | | | | | |
|---|-----------|------|----------|----------|--------------|-----------|---------|---------------|--|--|--|
| | | | | _ | | tiolio | | | | | |
| Net Pr | esent V | alu | e and | McDep | Ratio | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Price | | | Net | | | | | |
| | | | (\$/sh) | | Market | Present | Debt/ | | | | |
| | Symbol/ | | 2-Dec | Shares | Сар | Value | Present | $McD\epsilon$ | | | |
| | Ra | ting | 2010 | (mm) | (\$mm) | (\$/un) | Value | Rat | | | |
| Constantantantantantantantantantantantantant | | | | | | | | | | | |
| Canadian Income Trusts (US\$) | DCII | | 12.10 | 200.0 | 2.040 | 11.00 | 0.20 | 1 1 | | | |
| Pengrowth Energy Trust | PGH | | 13.19 | 299.0 | 3,940 | 11.00 | 0.29 | 1.1 | | | |
| Enerplus Resources Fund | ERF | | 30.33 | 177.5 | 5,380 | 30.00 | 0.16 | 1.0 | | | |
| Penn West Energy Trust | PWE | | 22.39 | 439.6 | 9,840 | 23.00 | 0.25 | 0.9 | | | |
| Peyto Energy Trust | PEYUF | _ | 17.25 | 121.8 | 2,100 | 18.00 | 0.17 | 0.9 | | | |
| Canadian Oil Sands Trust | COSWF | В | 28.23 | 484.0 | 13,660 | 38.00 | 0.08 | 0.7 | | | |
| Total or Median | | | | | 34,900 | | 0.17 | 0.9 | | | |
| Small Cap Independent Producers | | | | | | | | | | | |
| Denbury Resources Inc. | DNR | | 19.40 | 401.0 | 7,780 | 15.00 | 0.36 | 1. | | | |
| Whiting Petroleum Corporation | WLL | | 112.85 | 59.0 | 6,660 | 95.00 | 0.17 | 1. | | | |
| Berry Petroleum Company | BRY | | 40.00 | 54.4 | 2,180 | 35.00 | 0.35 | 1.0 | | | |
| Cimarex Energy Company | XEC | В | 85.83 | 85.8 | 7,360 | 80.00 | 0.08 | 1.0 | | | |
| Range Resources | RRC | В | 43.99 | 157.1 | 6,910 | 45.00 | 0.23 | 0.9 | | | |
| Ultra Petroleum | UPL | | 48.30 | 154.0 | 7,440 | 50.00 | 0.16 | 0.9 | | | |
| Petrohawk Energy Corporation | HK | В | 18.98 | 302.0 | 5,730 | 20.00 | 0.36 | 0.9 | | | |
| Birchcliff Energy Ltd. (US\$) | BIREF | В | 9.58 | 127.3 | 1,220 | 14.00 | 0.16 | 0.7 | | | |
| Total or Median | DIKLI | Б | 7.50 | 127.3 | 45,280 | 14.00 | 0.20 | 1.0 | | | |
| | | | | | , | | | | | | |
| Top Line Cash Payers | | | | | | | | | | | |
| Permian Basin RT | PBT | | 22.46 | 46.6 | 1,050 | 18.00 | - | 1.2 | | | |
| Cross Timbers Royalty Trust | CRT | | 40.93 | 6.0 | 250 | 34.00 | - | 1.2 | | | |
| Sabine Royalty Trust | SBR | | 59.00 | 14.6 | 860 | 50.00 | - | 1.1 | | | |
| Freehold Royalty Trust (US\$) | FRHLF | | 19.87 | 58.4 | 1,160 | 17.00 | 0.08 | 1.1 | | | |
| Dorchester Minerals, L.P. | DMLP | В | 27.51 | 30.7 | 840 | 27.00 | 0.02 | 1.0 | | | |
| Total or Median | | | | | 4,160 | | | 1.1 | | | |
| | | | | | | | | | | | |
| Bottom Line Cash Payers | | | | | | | | | | | |
| Linn Energy, LLC | LINE | | 36.48 | 146.5 | 5,340 | 21.00 | 0.42 | 1.4 | | | |
| Vanguard Natural Resources, LLC | VNR | | 27.06 | 29.8 | 810 | 20.00 | 0.37 | 1.2 | | | |
| Legacy Reserves L.P. | LGCY | | 26.06 | 40.1 | 1,050 | 20.00 | 0.32 | 1.2 | | | |
| Encore Energy Partners, L.P. (52%) | ENP | | 20.49 | 23.6 | 480 | 17.00 | 0.24 | 1.1 | | | |
| Mesa RoyaltyTrust | MTR | | 49.50 | 1.9 | 92 | 48.00 | - | 1.0 | | | |
| San Juan Basin Royalty Trust | SJT | В | 24.89 | 46.6 | 1,160 | 25.00 | - | 1.0 | | | |
| Hugoton RoyaltyTrust | HGT | В | 20.53 | 40.0 | 820 | 21.00 | - | 0.9 | | | |
| Total or Median | | | | | 9,750 | | | 1.1 | | | |
| B=Buy; CB=Contrarian Buy, Stock Price | annarantk | in d | owntrand | compared | to 200 day | I average | | | | | |
| B=Buy; СВ=Contrarian Buy, Stock Price McDep Ratio = M arket c ap and De bt to | | | | - | | | | | | | |



| Table 3 McDep Income and Small Cap Energy Portfolio | | | | | | | | | | | |
|--|----------------|-----|---------------|-------------|------------------|-------------|---------------|--------------|--|--|--|
| McDep Inco | me and | l S | mall C | ap Ene | rgy Po | rtfolio | | | | | |
| Value I | Multipl | es | - Rank | by EV | /Ebitda | a | | | | | |
| | | | | | | | | | | | |
| | | | n : | | | 4 1 . 1 | | | | | |
| | | | Price | D | Dist/ | Adjstd | PV/ | E | | | |
| | C 1 . 1/ | | , , | Revenue | | Resrvs/ | | EV | | | |
| | Symbol/ Rat | ina | 2-Dec 2010 | Royalty (%) | Equity Ebitda | Prod NTM | Ebitda NTM | Ebitd NTN | | | |
| | Rui | ing | 2010 | (70) | Lona | 141111 | 11111 | 1111 | | | |
| Canadian Income Trusts (US\$) | | | | | | | | | | | |
| Peyto Energy Trust | PEYUF | | 17.25 | | 0.50 | 18.4 | 12.7 | 12.: | | | |
| Canadian Oil Sands Trust | COSWF | В | 28.23 | | 0.48 | 29.2 | 11.6 | 8. | | | |
| Pengrowth Energy Trust | PGH | | 13.19 | | 0.58 | 9.6 | 7.7 | 8. | | | |
| Penn West Energy Trust | PWE | | 22.39 | | 0.41 | 9.9 | 9.0 | 8. | | | |
| Enerplus Resources Fund | ERF | | 30.33 | | 0.58 | 9.7 | 8.3 | 8. | | | |
| Median | | | | | | 9.9 | 9.0 | 8.8 | | | |
| Curall Can Indonesidant Duadragus | | | | | | | | | | | |
| Small Cap Independent Producers Range Resources | RRC | В | 43.99 | | - | 11.8 | 15.4 | 15. | | | |
| Ultra Petroleum | UPL | ь | 48.30 | | | 12.6 | 12.7 | 12. | | | |
| Birchcliff Energy Ltd. (US\$) | BIREF | В | 9.58 | | | 19.8 | 16.1 | 11. | | | |
| Petrohawk Energy Corporation | HK | В | 18.98 | | | 7.0 | 11.2 | 10. | | | |
| Denbury Resources Inc. | DNR | Б | 19.40 | | | 12.9 | 7.7 | 9. | | | |
| Berry Petroleum Company | BRY | | 40.00 | | - | 11.3 | 7.7 | 8. | | | |
| | WLL | | 112.85 | | - | 9.3 | 6.3 | | | | |
| Whiting Petroleum Corporation | XEC | В | 85.83 | | - | 6.2 | | 7. 7. | | | |
| Cimarex Energy Company Median | AEC | Б | 63.63 | | - | 11.5 | 6.8 9.6 | 10.0 | | | |
| | | | | | | | | | | | |
| Top Line Cash Payers | | | | | | | | | | | |
| Cross Timbers Royalty Trust | CRT | | 40.93 | 84 | 0.96 | 13.2 | 12.7 | 15. | | | |
| Permian Basin RT | PBT | | 22.46 | 32 | 0.98 | 13.2 | 12.0 | 15. | | | |
| Sabine Royalty Trust | SBR | | 59.00 | 100 | 1.00 | 7.8 | 12.7 | 15. | | | |
| Dorchester Minerals, L.P. | DMLP | В | 27.51 | 77 | 0.86 | 6.7 | 14.0 | 14. | | | |
| Freehold Royalty Trust (US\$) | FRHLF | | 19.87 | 71 | 0.89 | 8.4 | 9.2 | 10. | | | |
| Median | | | | | | 8.4 | 12.7 | 15.0 | | | |
| Bottom Line Cash Payers | | | | | | | | | | | |
| Linn Energy, LLC | LINE | | 36.48 | | 1.67 | 18.3 | 13.3 | 18. | | | |
| San Juan Basin Royalty Trust | SJT | В | 24.89 | | 0.83 | 13.7 | 15.0 | 14. | | | |
| Hugoton RoyaltyTrust | HGT | В | 20.53 | | 0.85 | 12.6 | 14.0 | 13. | | | |
| Mesa RoyaltyTrust | MTR | | 49.50 | | 0.91 | 8.7 | 12.5 | 12. | | | |
| Legacy Reserves L.P. | LGCY | | 26.06 | | 0.95 | 12.0 | 9.1 | 11. | | | |
| Vanguard Natural Resources, LLC | VNR | | 27.06 | | 0.92 | 13.0 | 8.4 | 10. | | | |
| Encore Energy Partners, L.P. | ENP | | 20.49 | | 1.05 | 13.5 | 8.9 | 10. | | | |
| Median | | | | | | 13.0 | 12.5 | 12.8 | | | |
| D. Desert CD. Countries in D. Ct. 1 D. | | | / 1 | 1 | 4- 200 1 | | | | | | |
| B=Buy; CB=Contrarian Buy, Stock Price | | | | | | | | | | | |
| EV = Enterprise Value = Market Cap and | | | | | | | l | | | | |
| and amortization; NTM = Next Twelve M | | | | | E = Stock | rnce to | | | | | |
| Earnings; PV = Present Value of oil and g Top Line Cash Payers defined as those h | | | | | | | | | | | |

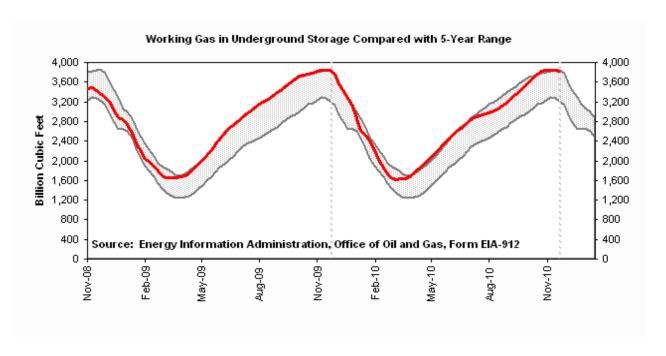


| Table 4 | | | | | | | | | | | |
|------------------------------------|----------|-------|----------|---------|-----------|----------|---------|-------|--|--|--|
| Oil an | d Gas In | com | e and S | mall Ca | p Stocks | | | | | | |
| Rank by | Enterpr | ise ` | Value to | 200 Da | ay Averag | ge | | | | | |
| | | | | | | | | | | | |
| | | | Price | | | | | | | | |
| | | | (\$/sh) | | Enterpris | e Value/ | | | | | |
| | Symbol/ | | 2-Dec | 52Wk | 52Wk | 50 Day | 200 Day | McDep | | | |
| | - | ting | 2010 | High | Low | Avg. | Avg. | Ratio | | | |
| Canadian Income Trusts (US\$) | | | | | | | | | | | |
| Enerplus Resources Fund | ERF | | 30.33 | 1.00 | 1.85 | 1.10 | 1.21 | 1.01 | | | |
| Pengrowth Energy Trust | PGH | | 13.19 | 1.00 | 2.03 | 1.08 | 1.16 | 1.14 | | | |
| Peyto Energy Trust | PEYUF | | 17.25 | 0.96 | 1.43 | 1.07 | 1.16 | 0.96 | | | |
| Penn West Energy Trust | PWE | | 22.39 | 0.95 | 1.27 | 1.02 | 1.07 | 0.98 | | | |
| Canadian Oil Sands Trust | COSWF | В | 28.23 | 0.87 | 1.19 | 1.08 | 1.04 | 0.76 | | | |
| Median | | | 20.23 | 0.96 | 1.43 | 1.08 | 1.16 | 0.98 | | | |
| Small Cap Independent Producers | | | | 0.70 | 11,0 | 1.00 | 1110 | 0.70 | | | |
| Whiting Petroleum Corporation | WLL | | 112.85 | 1.00 | 1.61 | 1.08 | 1.22 | 1.16 | | | |
| Cimarex Energy Company | XEC | В | 85.83 | 1.00 | 1.76 | 1.12 | 1.21 | 1.07 | | | |
| Berry Petroleum Company | BRY | | 40.00 | 1.00 | 1.36 | 1.09 | 1.18 | 1.09 | | | |
| Denbury Resources Inc. | DNR | | 19.40 | 0.98 | 1.31 | 1.07 | 1.12 | 1.19 | | | |
| Ultra Petroleum | UPL | | 48.30 | 0.91 | 1.24 | 1.09 | 1.07 | 0.97 | | | |
| Birchcliff Energy Ltd. (US\$) | BIREF | В | 9.58 | 0.92 | 1.29 | 1.06 | 1.04 | 0.73 | | | |
| Range Resources | RRC | В | 43.99 | 0.84 | 1.26 | 1.10 | 1.02 | 0.98 | | | |
| Petrohawk Energy Corporation | HK | В | 18.98 | 0.78 | 1.20 | 1.06 | 1.01 | 0.97 | | | |
| Median | | | | 0.98 | 1.30 | 1.09 | 1.09 | 1.02 | | | |
| Top Line Cash Payers | | | | | | | | | | | |
| Permian Basin RT | PBT | | 22.46 | 0.95 | 1.74 | 1.06 | 1.18 | 1.25 | | | |
| Freehold Royalty Trust (US\$) | FRHLF | | 19.87 | 0.99 | 1.38 | 1.07 | 1.18 | 1.16 | | | |
| Sabine Royalty Trust | SBR | | 59.00 | 0.99 | 1.48 | 1.07 | 1.15 | 1.18 | | | |
| Cross Timbers Royalty Trust | CRT | | 40.93 | 0.98 | 1.45 | 1.07 | 1.15 | 1.21 | | | |
| Dorchester Minerals, L.P. | DMLP | В | 27.51 | 0.94 | 1.37 | 1.01 | 1.08 | 1.02 | | | |
| Median | | | | 0.98 | 1.45 | 1.07 | 1.15 | 1.18 | | | |
| Bottom Line Cash Payers | | | | | | | | | | | |
| Linn Energy, LLC | LINE | | 36.48 | 0.99 | 1.86 | 1.05 | 1.17 | 1.43 | | | |
| Mesa RoyaltyTrust | MTR | | 49.50 | 0.91 | 1.41 | 1.03 | 1.08 | 1.03 | | | |
| Vanguard Natural Resources, LLC | VNR | | 27.06 | 1.00 | 1.36 | 1.03 | 1.08 | 1.22 | | | |
| Legacy Reserves L.P. | LGCY | | 26.06 | 0.96 | 1.34 | 1.00 | 1.07 | 1.20 | | | |
| Hugoton RoyaltyTrust | HGT | В | 20.53 | 0.93 | 1.37 | 1.01 | 1.06 | 0.98 | | | |
| Encore Energy Partners, L.P. (52%) | ENP | | 20.49 | 0.95 | 1.74 | 1.03 | 1.06 | 1.16 | | | |
| San Juan Basin Royalty Trust | SJT | В | 24.89 | 0.87 | 1.48 | 1.01 | 1.05 | 1.00 | | | |
| Median | | | | 0.95 | 1.41 | 1.03 | 1.07 | 1.16 | | | |



Income and Small Cap Weekly

Analysis of Oil & Gas Stocks
December 3, 2010



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