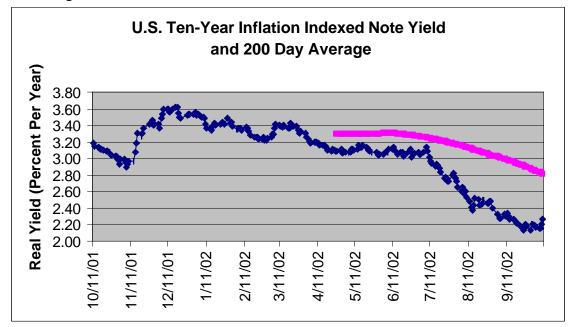
Are Trend Reversals Underway?

Summary and Recommendation

Momentum in fundamental measures of interest rates needs to turn and energy prices need to hold for energy equity investment in October to provide early rewards. The real yield on the U.S. Ten-Year Inflation Indexed Note has stopped going down this month. The reason appears to be a steeper drop in inflation expectations. The declining nominal yield on the benchmark U.S. Ten-Year Note still points to further stock market decline and financial distress for lenders and heavy borrowers. Upward momentum continues for six-year oil futures while it has been broken at least temporarily for six-year natural gas futures. Should October prove pivotal, energy stocks that have lagged in price may advance most including recommended **Royal Dutch (RD)**, **ChevronTexaco (CVX)**, **ConocoPhillips (COP)** and **Marathon (MRO)**. We believe that those and other recommendations offer growth with inflation protection and deflation resistance (see Tables L-1, L-2, M-1, M-2, S-1 and S-3).

Real Yield on Inflation Indexed Notes May Have Turned

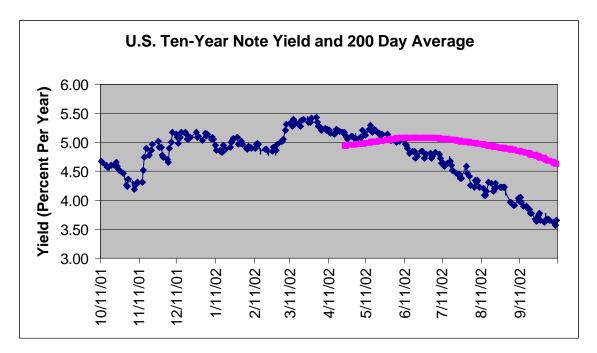
Investors may be saying that stocks might be starting to offer a long-term return after inflation that is more competitive relative to the lowest risk alternative. A slight rise in real yield suggests less willingness to sell stocks to buy U.S. Treasury Inflation Indexed Notes (see Chart). We have been making the valuation case that the higher dividend yield for recommended Royal Dutch (currently 4.1% as displayed in Table L-2) implies an even higher real return that is more attractive than the lowest risk alternative.



The treasury auctioned a new ten-year inflation-indexed note in July at a price under 100. When the same security was reopened for auction last week, it drew a winning bid of about 107. That implies about an 8 or 9% total return in just three months while the stock market has had a negative return over the same period.

Nominal Yield on Ten-Year Treasury Note Still Trends Downward

There is no reversal yet suggested in the steep down trend in yield on the U.S. Ten-Year Note (see Chart). The trend is ominous for the stock market and the economy as the historical parallels are the U.S. in the 1930s and Japan in the 1990s. U.S. government bonds yielded 2% in the 1930s we understand. The current yield on ten-year Japanese government securities is little more than 1% apparently.

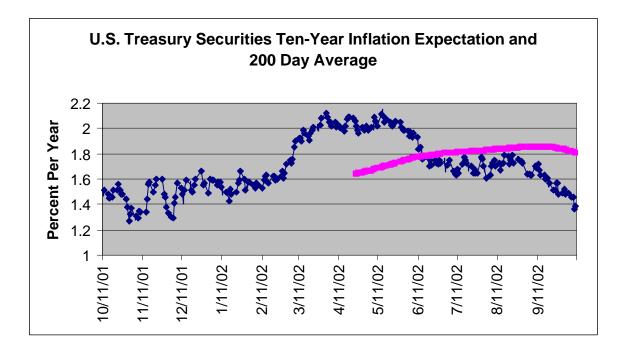


The main implication of ultra low government bond yields is widespread financial failure. Remember the Bank Holiday in the history of the 1930s? The whole Japanese banking system may have a negative net worth today. European banks seem vulnerable because Europe apparently relies more heavily on bank financing. The collapse of heavy borrowing utilities 70 years ago is eerily reminiscent of what has happened recently.

Nor does the Central Bank seem to be able to do much about the accompanying stagnation. Short-term rates, the main tool, went to zero in the U.S. in the 1930s and also in Japan in the 1990s, as we understand. We can be sure that the Federal Reserve will cut the 1.75% short term lending rated soon if the yield on the U.S. Ten-Year Note continues to decline. Our leaders will undoubtedly try other measures to revive activity.

Inflation Expectations Drop in the Past Two Months

The difference between the real yield and the nominal yield is expected inflation. After rising early in 2002, inflation expectations turned into a strong downtrend with recent acceleration (see Chart).

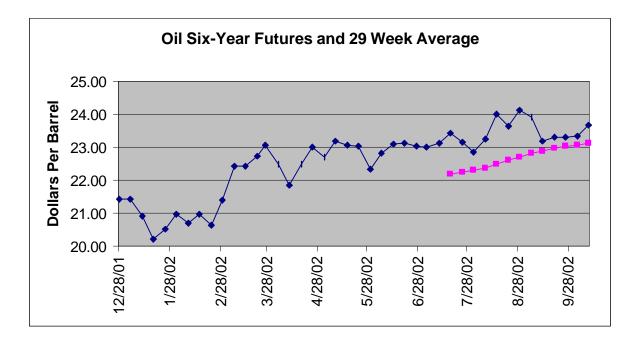


When inflation expectations were rising we emphasized the inflation protection offered by energy investments. That is still a valuable feature as eventually inflation could return. War can bring it on as seemed to be the case in World War I, World War II and after the Vietnam War. Should the campaign anticipated for Iraq not go well and get dragged out inflation could threaten.

The greater concern today is, no doubt, the opposite of inflation. We have translated that not to actual deflation of prices, but to deflation of debt that occurs in financial failure. High debt has typically been a factor driving our sell recommendations. We see sell recommendation **Kinder Morgan, Inc**. (**KMI**), for example, as having practically no value. Its debt is about 8 times cash flow and it is borrowing more money to buy new properties at perhaps 7 times cash flow. If the price paid for new deals is indicative of the value of existing assets, KMI is like a Japanese bank in that its liabilities may exceed the value of its assets. Fortunately most of our buy recommendations have low debt and therefore offer deflation resistance.

Six-Year Oil Futures Trend Up

Declining inflation expectations are not evident in oil futures. The current six-year oil price is above the 29-week moving average thereby defining an upward trend (see Chart).



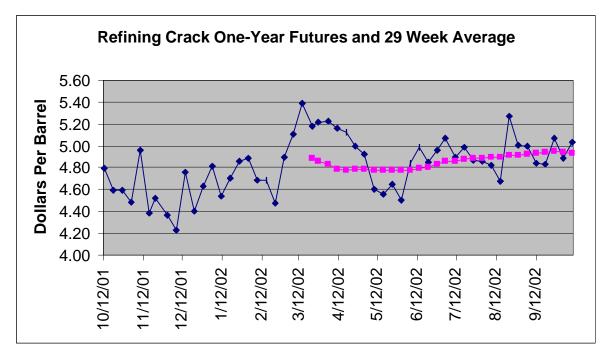
Note that six-year futures are at the relatively low level of \$23 per barrel in contrast to the spot quote near \$29 currently. Because stock prices seem more than justified by six-year futures, we conclude there is little lasting downside in energy stocks should short-term price soften toward the six-year level.

Refining Margins on Modest Upward Trend

One-year futures for crude oil and products in New York harbor define a refining margin, also known as crack spread, which appears to be fluctuating around the 29-week average (see Chart). We measure the 3-2-1 spread that assumes three barrels of crude oil will be transformed to two barrels of gasoline and one barrel of heating oil. Using a one-year period overcomes the seasonality of spot quotes. One-year futures are also less volatile than daily price or near month futures. The current one-year crack near \$5 per barrel implies normal, mediocre profitability. That is better than depressed profitability and enables strong companies to wait for the occasional high profit periods that justify being in the business.

Supposedly one of the concerns investors have about investing in oil is that if a regime change occurs in Iraq, the oil spigots will be opened wide and low oil price would ensue.

Not only would that not happen overnight there might be high risk getting there. Nonetheless, higher Iraqi output would be in the form of heavy, high-sulfur crude oil that requires intensive refining. More than bringing oil price down, Iraqi oil would widen the spread between scarcer light oil and newly abundant heavy oil. Refiners would prosper under such conditions.

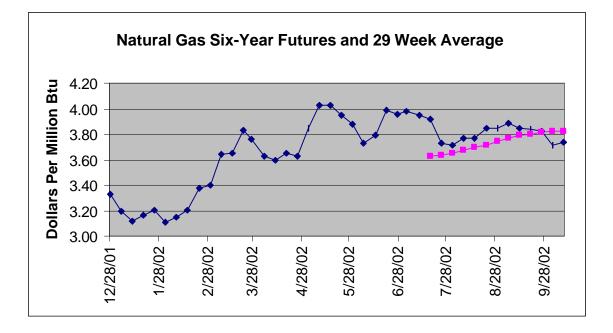


Natural Gas Breaks Trend

Finally we look at trends for the cleaner fuel, natural gas. Despite a warm winter last year, natural gas prices have been trending upward most of the year (see Chart next page). A break in the trend occurred a week ago and the latest price remains below the 29-week average. Natural gas stocks in some cases have outperformed this year. Should a turn in the stock market be imminent, natural gas stocks may not appreciate as much immediately as more depressed issues.

At the same time this is a quiet period for the fuel being neither an air conditioning season requiring natural gas for electricity for cooling, nor a heating season requiring natural gas for warming homes, stores, offices and factories. Yet the winter is just ahead when unexpectedly cold weather would imply strong pricing. Regardless of demand, supply of natural gas in North America has become increasingly sensitive to new drilling as old deposits become more fully exploited. Having drilled too aggressively at times, producers, in turn, have become more sensitive to economic factors. Thus even slow demand implies better pricing than in the past.

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002



Kurt H. Wulff, CFA

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table L-1

Mega Cap and Large Cap Energy Companies

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

| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | Price | | | Net | | |
|--|----------------------------------|---------|------|---------|--------|---------|---------|---------|-------|
| Rating 2002 (mm) $(\$mn)$ | | | | (\$/sh) | | Market | Present | Debt/ | |
| Mega CapExxon Mobil CorporationXOM 33.79 $6,858$ $232,000$ 36.00 0.09 0.94 BP plcBP 38.94 $3,738$ $146,000$ 50.00 0.15 0.81 TotalFinaElf S.A.TOT 67.41 $1,346$ $90,700$ 90.00 0.14 0.78 Royal Dutch/ShellRDB 41.60 $3,498$ $146,000$ 60.00 0.15 0.74 ChevronTexaco CorporationCVXB 71.30 $1,062$ $75,700$ 110.00 0.16 0.71 Total or MedianEnergy Infrastructure690,000 23.90 0.47 1.11 American Electric Power Co. Inc.AEPN 21.20 32.6 6.900 27.40 0.74 0.94 Energy CorporationEXCN 46.58 323 $15,000$ 70.80 0.45 0.81 Duke Energy CorporationDUK 18.91 792 $15,000$ 30.40 0.48 0.81 El Paso CorporationEV 8.87 269 $10,500$ 76.20 0.45 0.73 Total or Median $60,000$ 0.47 0.81 0.73 0.74 0.84 OAD LukoilLUKOY 64.80 299 $19,400$ 70.00 0.08 0.93 Occidental Petroleum Corp.OXY 28.26 376 $10,600$ 32.00 0.38 0.93 Devon EnergyDVN 45.80 265 $7,600$ 55.00 0.48 0.91 <t< td=""><td></td><td>Symbol/</td><td>,</td><td>10-Oct</td><td>Shares</td><td>Cap</td><td>Value</td><td>Present</td><td>McDep</td></t<> | | Symbol/ | , | 10-Oct | Shares | Cap | Value | Present | McDep |
| $\begin{array}{c cccc} Exxon Mobil Corporation & XOM & 33.79 & 6,858 & 232,000 & 36.00 & 0.09 & 0.94 \\ BP plc & BP & 38.94 & 3,738 & 146,000 & 50.00 & 0.15 & 0.81 \\ TotalFinaElf S.A. & TOT & 67.41 & 1,346 & 90,700 & 90.00 & 0.14 & 0.78 \\ Royal Dutch/Shell & RD & B & 41.60 & 3,498 & 146,000 & 60.00 & 0.15 & 0.74 \\ ChevronTexaco Corporation & CVX & B & 71.30 & 1,062 & 75,700 & 110.00 & 0.16 & 0.71 \\ \hline Total or Median & & & & & & & & & & & & & & & & & & &$ | | Ra | ting | 2002 | (mm) | (\$mm) | (\$/sh) | Value | Ratio |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Mega Cap | | | | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Exxon Mobil Corporation | | | | 6,858 | , | | | |
| Royal Dutch/Shell RD B 41.60 3,498 146,000 60.00 0.15 0.74 ChevronTexaco Corporation CVX B 71.30 1,062 75,700 110.00 0.16 0.71 Total or Median 690,000 0.15 0.78 Energy Infrastructure 50 28.89 701 20,300 23.90 0.47 1.11 American Electric Power Co. Inc. AEP N 21.20 326 6.900 27.40 0.74 0.94 Enel S.p.a. (32%) EN 23.75 388 9.200 32.70 0.39 0.83 Exelon Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.45 0.73 Total or Median Total or Median 60,000 0.47 0.73 Matural Gas and Oil UKOY 64.80 299 19,400 70.00 0.08 0.93 < | BP plc | BP | | 38.94 | 3,738 | 146,000 | 50.00 | 0.15 | 0.81 |
| Chevron Texaco Corporation CVX B 71.30 1,062 75,700 110.00 0.16 0.71 Total or Median 690,000 0.15 0.78 Energy Infrastructure SO 28.89 701 20,300 23.90 0.47 1.11 American Electric Power Co. Inc. AEP N 21.20 326 6,900 27.40 0.74 0.94 Enel S.p.a. (32%) EN 23.75 388 9,200 32.70 0.39 0.83 Exelon Corporation EXC N 46.58 323 15,000 70.80 0.45 0.81 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,60 | TotalFinaElf S.A. | TOT | | 67.41 | 1,346 | 90,700 | 90.00 | 0.14 | 0.78 |
| Total or Median 690,000 0.15 0.78 Energy Infrastructure Southern Company SO 28.89 701 20,300 23.90 0.47 1.11 American Electric Power Co. Inc. AEP N 21.20 326 6,900 27.40 0.74 0.94 Enel S.p.a. (32%) EN 23.75 388 9,200 32.70 0.39 0.83 Exelon Corporation EXC N 46.58 323 15,000 70.80 0.45 0.715 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 Cotal or Median LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 1 | | | | | 3,498 | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | ChevronTexaco Corporation | CVX | В | 71.30 | 1,062 | 75,700 | 110.00 | | |
| Southern Company SO 28.89 701 20,300 23.90 0.47 1.11 American Electric Power Co. Inc. AEP N 21.20 326 6,900 27.40 0.74 0.94 Enel S.p.a. (32%) EN 23.75 388 9,200 32.70 0.39 0.83 Exelon Corporation EXC N 46.58 323 15,000 70.80 0.45 0.81 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 <i>Total or Median</i> 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 <td< td=""><td>Total or Mediar</td><td>ı</td><td></td><td></td><td></td><td>690,000</td><td></td><td>0.15</td><td>0.78</td></td<> | Total or Mediar | ı | | | | 690,000 | | 0.15 | 0.78 |
| American Electric Power Co. Inc.AEPN 21.20 326 $6,900$ 27.40 0.74 0.94 Enel S.p.a. (32%) EN 23.75 388 $9,200$ 32.70 0.39 0.83 Exelon CorporationEXCN 46.58 323 $15,000$ 70.80 0.45 0.81 Duke Energy CorporationDUK 18.91 792 $15,000$ 30.40 0.48 0.81 El Paso CorporationEPS 5.38 590 $3,200$ 20.00 0.66 0.75 Dominion ResourcesD 38.87 269 $10,500$ 76.20 0.45 0.73 <i>Total or Median</i> $60,000$ 0.47 0.81 Natural Gas and OilOAO LukoilLUKOY 64.80 299 $19,400$ 70.00 0.08 0.93 Occidental Petroleum Corp.OXY 28.26 376 $10,600$ 32.00 0.38 0.93 Devon EnergyDVN 45.80 165 $7,600$ 55.00 0.48 0.91 ENI S.p.A.E 70.22 776 $54,500$ 85.00 0.18 0.86 Anadarko Petroleum Corp.APC 45.00 266 $12,000$ 56.00 0.26 0.86 Encana CorporationECAB 27.11 470 $12,700$ 35.00 0.28 0.83 Unocal CorporationUCL 28.88 245 $7,100$ 45.00 0.33 0.76 Burlington | Energy Infrastructure | | | | | | | | |
| Enel S.p.a. (32%) EN 23.75 388 9,200 32.70 0.39 0.83 Exelon Corporation EXC N 46.58 323 15,000 70.80 0.45 0.81 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 <i>Total or Median</i> Image: Corporation deletaria Emage: Corporation deletaria 0.47 0.81 Natural Gas and Oil Image: Corporation deletaria Emage: Corporation deletaria 0.47 0.81 OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 77 | | SO | | 28.89 | 701 | 20,300 | 23.90 | 0.47 | 1.11 |
| Exelon Corporation EXC N 46.58 323 15,000 70.80 0.45 0.81 Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 Total or Median Katural Gas and Oil OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 776 54,500 85.00 0.18 | American Electric Power Co. Inc. | AEP | Ν | 21.20 | | 6,900 | 27.40 | | |
| Duke Energy Corporation DUK 18.91 792 15,000 30.40 0.48 0.81 El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 <i>Total or Median</i> Natural Gas and Oil OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 776 54,500 85.00 0.18 0.86 Anadarko Petroleum Corp. APC 45.00 266 12,000 56.00 0.26 0.83 Unocal Corporation ECA B 27.11 470 12,700 35.00 0.33 0 | | EN | | 23.75 | 388 | 9,200 | 32.70 | 0.39 | 0.83 |
| El Paso Corporation EP S 5.38 590 3,200 20.00 0.66 0.75 Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 Total or Median Natural Gas and Oil OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 776 54,500 85.00 0.18 0.86 Anadarko Petroleum Corp. APC 45.00 266 12,000 56.00 0.26 0.86 Encana Corporation ECA B 27.11 470 12,700 35.00 0.38 0.76 Burlington Resources BR B 36.17 202 7,300 57.00 <td< td=""><td></td><td>EXC</td><td>Ν</td><td>46.58</td><td>323</td><td>15,000</td><td>70.80</td><td>0.45</td><td>0.81</td></td<> | | EXC | Ν | 46.58 | 323 | 15,000 | 70.80 | 0.45 | 0.81 |
| Dominion Resources D 38.87 269 10,500 76.20 0.45 0.73 Total or Median 60,000 60,000 0.47 0.81 Natural Gas and Oil OAO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 776 54,500 85.00 0.18 0.86 Anadarko Petroleum Corp. APC 45.00 266 12,000 56.00 0.26 0.83 Unocal Corporation ECA B 27.11 470 12,700 35.00 0.33 0.76 Burlington Resources BR B 36.17 202 7,300 57.00 0.28 0.71 GonocoPhillips COP B 45.47 | Duke Energy Corporation | DUK | | 18.91 | 792 | 15,000 | 30.40 | 0.48 | 0.81 |
| Total or Median 60,000 0.47 0.81 Natural Gas and Oil 0AO Lukoil LUKOY 64.80 299 19,400 70.00 0.08 0.93 Occidental Petroleum Corp. OXY 28.26 376 10,600 32.00 0.38 0.93 Devon Energy DVN 45.80 165 7,600 55.00 0.48 0.91 ENI S.p.A. E 70.22 776 54,500 85.00 0.18 0.86 Anadarko Petroleum Corp. APC 45.00 266 12,000 56.00 0.26 0.86 Encana Corporation ECA B 27.11 470 12,700 35.00 0.38 0.76 Burlington Resources BR B 36.17 202 7,300 57.00 0.28 0.74 ConocoPhillips COP B 45.47 680 30,900 80.00 0.32 0.71 | El Paso Corporation | EP | S | 5.38 | 590 | 3,200 | 20.00 | 0.66 | 0.75 |
| Natural Gas and OilOAO LukoilLUKOY64.8029919,40070.000.080.93Occidental Petroleum Corp.OXY28.2637610,60032.000.380.93Devon EnergyDVN45.801657,60055.000.480.91ENI S.p.A.E70.2277654,50085.000.180.86Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Dominion Resources | D | | 38.87 | 269 | 10,500 | 76.20 | 0.45 | 0.73 |
| OAO LukoilLUKOY64.8029919,40070.000.080.93Occidental Petroleum Corp.OXY28.2637610,60032.000.380.93Devon EnergyDVN45.801657,60055.000.480.91ENI S.p.A.E70.2277654,50085.000.180.86Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Total or Mediar | ı | | | | 60,000 | | 0.47 | 0.81 |
| Occidental Petroleum Corp.OXY28.2637610,60032.000.380.93Devon EnergyDVN45.801657,60055.000.480.91ENI S.p.A.E70.2277654,50085.000.180.86Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Natural Gas and Oil | | | | | | | | |
| Devon EnergyDVN45.801657,60055.000.480.91ENI S.p.A.E70.2277654,50085.000.180.86Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | OAO Lukoil | LUKOY | r | 64.80 | 299 | 19,400 | 70.00 | 0.08 | 0.93 |
| ENI S.p.A.E70.2277654,50085.000.180.86Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Occidental Petroleum Corp. | OXY | | 28.26 | 376 | 10,600 | 32.00 | 0.38 | 0.93 |
| Anadarko Petroleum Corp.APC45.0026612,00056.000.260.86Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Devon Energy | DVN | | 45.80 | 165 | 7,600 | 55.00 | 0.48 | 0.91 |
| Encana CorporationECAB27.1147012,70035.000.280.83Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | ENI S.p.A. | E | | 70.22 | 776 | | 85.00 | 0.18 | 0.86 |
| Unocal CorporationUCL28.882457,10045.000.330.76Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Anadarko Petroleum Corp. | APC | | 45.00 | 266 | 12,000 | 56.00 | 0.26 | 0.86 |
| Burlington ResourcesBRB36.172027,30057.000.280.74ConocoPhillipsCOPB45.4768030,90080.000.320.71 | Encana Corporation | ECA | В | 27.11 | 470 | 12,700 | 35.00 | 0.28 | 0.83 |
| ConocoPhillips COP B 45.47 680 30,900 80.00 0.32 0.71 | Unocal Corporation | UCL | | 28.88 | 245 | 7,100 | 45.00 | 0.33 | 0.76 |
| | Burlington Resources | BR | В | 36.17 | 202 | 7,300 | 57.00 | 0.28 | 0.74 |
| | ConocoPhillips | COP | В | 45.47 | 680 | 30,900 | 80.00 | 0.32 | 0.71 |
| Marathon Oil Corporation MRO B 20.74 310 6,400 40.00 0.37 0.70 | Marathon Oil Corporation | MRO | В | 20.74 | 310 | 6,400 | 40.00 | 0.37 | 0.70 |
| Petroleo Brasileiro S. A. PBR N 10.62 1,086 11,500 30.00 0.27 0.53 | Petroleo Brasileiro S. A. | PBR | Ν | 10.62 | 1,086 | 11,500 | 30.00 | 0.27 | 0.53 |
| Total or Median 161,000 0.30 0.80 | Total or Mediar | ı | | | | 161,000 | | 0.30 | 0.80 |
| Service | Service | | | | | | | | |
| Baker Hughes Inc. BHI 26.99 339 9,100 25.00 0.09 1.07 | Baker Hughes Inc. | BHI | | 26.99 | 339 | 9,100 | 25.00 | 0.09 | 1.07 |
| Schlumberger Ltd. SLB 35.07 581 20,400 44.00 0.22 0.84 | Schlumberger Ltd. | SLB | | 35.07 | 581 | 20,400 | 44.00 | 0.22 | 0.84 |
| Halliburton Company HAL 13.66 432 5,900 20.00 0.21 0.75 | Halliburton Company | HAL | | 13.66 | 432 | 5,900 | 20.00 | 0.21 | 0.75 |

Buy/Sell rating after symbol: B - Buy, N - Neutral, S - Sell

McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table L-2

Mega Cap and Large Cap Energy Companies Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

| | | | Price (\$/sh) | EV/ | EV/ | | idend or tribution | PV/ |
|----------------------------------|------------|-------|--------------------|-----------|----------------|-------------|-----------------------|-----------|
| | Symbol/ | | (\$/\$n) 10-Oct | Sales | E V/ Ebitda | P/E | NTM | Ebitda |
| | • | ating | 2002 | NTM | NTM | NTM | (%) | NTM |
| Mega Cap | <i>n</i> u | ung | 2002 | 1 4 1 101 | 1111 | 1 1 1 1 1 1 | (70) | 1 4 1 101 |
| Exxon Mobil Corporation | XOM | | 33.79 | 1.4 | 9.5 | 20 | 2.7 | 10.1 |
| BP plc | BP | | 38.94 | 1.0 | 7.4 | 15 | 3.7 | 9.1 |
| TotalFinaElf S.A. | TOT | | 67.41 | 1.1 | 7.1 | 14 | 3.8 | 9.0 |
| Royal Dutch/Shell | RD | В | 41.60 | 1.0 | 6.6 | 13 | 4.1 | 8.9 |
| ChevronTexaco Corporation | CVX | В | 71.30 | 1.1 | 6.5 | 12 | 3.9 | 9.2 |
| Mediar | ı | | | 1.1 | 7.1 | 14 | 3.8 | 9.1 |
| Energy Infrastructure | | | | | | | | |
| Southern Company | SO | | 28.89 | 3.5 | 10.0 | 17 | 4.6 | 9.0 |
| American Electric Power Co. Inc. | AEP | Ν | 21.20 | 0.5 | 8.5 | 7 | 11.3 | 9.0 |
| Enel S.p.a. (32%) | EN | | 23.75 | 2.1 | 7.5 | 29 | 6.8 | 9.0 |
| Exelon Corporation | EXC | Ν | 46.58 | 2.2 | 7.3 | 10 | 3.8 | 9.0 |
| Duke Energy Corporation | DUK | | 18.91 | 0.7 | 7.3 | 7 | 5.8 | 9.0 |
| Dominion Resources | D | | 38.87 | 2.8 | 6.6 | 8 | 6.6 | 9.0 |
| El Paso Corporation | EP | S | 5.38 | 2.1 | 5.9 | 3 | 16.2 | 7.9 |
| Mediar | ı | | | 2.1 | 7.3 | 8 | 6.6 | 9.0 |
| Natural Gas and Oil | | | | | | | | |
| Anadarko Petroleum Corp. | APC | | 45.00 | 2.7 | 6.9 | 14 | 0.7 | 8.1 |
| Devon Energy | DVN | | 45.80 | 3.0 | 6.8 | 46 | 0.4 | 7.4 |
| ConocoPhillips | COP | В | 45.47 | 0.8 | 6.6 | 13 | 3.2 | 9.3 |
| ENI S.p.A. | E | | 70.22 | 1.5 | 6.2 | 14 | 4.8 | 7.3 |
| Occidental Petroleum Corp. | OXY | | 28.26 | 1.4 | 5.6 | 10 | 3.5 | 6.0 |
| Burlington Resources | BR | В | 36.17 | 3.9 | 5.1 | 9 | 1.5 | 6.9 |
| Encana Corporation | ECA | В | 27.11 | 2.3 | 5.1 | 10 | 0.9 | 6.1 |
| Unocal Corporation | UCL | | 28.88 | 2.1 | 4.7 | 10 | 2.8 | 6.2 |
| OAO Lukoil | LUKOY | | 64.80 | 1.7 | 4.6 | 9 | 1.7 | 4.9 |
| Marathon Oil Corporation | MRO | В | 20.74 | 0.4 | 4.4 | 7 | 4.4 | 6.3 |
| Petroleo Brasileiro S. A. | PBR | Ν | 10.62 | 1.1 | 2.7 | 3 | 12.7 | 5.0 |
| Mediar | ı | | | 1.7 | 5.1 | 10 | 2.8 | 6.3 |
| Service | | | | | | | | |
| Baker Hughes Inc. | BHI | | 26.99 | 1.9 | 11.5 | 32 | 1.7 | 10.8 |
| Schlumberger Ltd. | SLB | | 35.07 | 2.0 | 7.5 | 26 | 2.1 | 8.9 |
| Halliburton Company | HAL | | 13.66 | 0.6 | 7.4 | 19 | 3.7 | 9.8 |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciationand amortization; NTM = Next Twelve Months Ended September 30, 2003; P/E = Stock Price toEarnings; PV = Present Value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table M-1Mid Cap Energy CompaniesRank by McDep Ratio: Market Cap and Debt to Present Value

| | | | Price (\$/sh) | | Market | Net Present | Debt/ | |
|-------------------------------------|---------|--------|-------------------------------|--------|--------|----------------|---------------|-------|
| | Symbol/ | | (<i>\\$\\\$n</i>) 10-Oct | Shares | Сар | Value | Present | McDep |
| | | Rating | | (mm) | (\$mm) | (\$/sh) | Value | Ratio |
| | 10 | | 2002 | (1111) | (onni) | (\$511) | <i>v anne</i> | nuno |
| Energy Infrastructure | | | | | | | | |
| Kinder Morgan Energy Partners, L.P. | KMP | S | 30.63 | 136 | 4,200 | 14.00 | 0.49 | 1.61 |
| Kinder Morgan Management, LLC | KMR | S | 28.50 | 30 | 900 | 14.00 | 0.49 | 1.54 |
| Enterprise Products Part. | EPD | | 17.00 | 175 | 3,000 | 9.50 | 0.43 | 1.45 |
| Kinder Morgan, Inc. | KMI | S | 33.20 | 123 | 4,100 | 8.10 | 0.87 | 1.40 |
| Calpine Corporation | CPN | Ν | 2.01 | 375 | 800 | 1.00 | 0.97 | 1.03 |
| Williams Companies | WMB | | 1.54 | 521 | 800 | 1.00 | 0.97 | 1.01 |
| Constellation Energy Group | CEG | | 20.61 | 164 | 3,400 | 20.00 | 0.69 | 1.01 |
| AES Corporation | AES | | 1.16 | 543 | 600 | 1.00 | 0.98 | 1.00 |
| Dynegy Inc. | DYN | | 0.73 | 418 | 300 | 1.00 | 0.94 | 0.98 |
| CMS Energy Corporation | CMS | | 6.03 | 137 | 800 | 8.70 | 0.90 | 0.97 |
| Sempra Energy | SRE | | 18.40 | 207 | 3,800 | 24.30 | 0.64 | 0.91 |
| Mirant Corporation | MIR | | 1.26 | 413 | 500 | 4.00 | 0.86 | 0.90 |
| Valero Energy Corporation | VLO | | 25.42 | 115 | 2,900 | 40.00 | 0.60 | 0.85 |
| Total or Median | | | | | 26,100 | | 0.86 | 1.01 |
| Natural Gas and Oil | | | | | | | | |
| Murphy Oil Corporation | MUR | | 86.40 | 46 | 3,900 | 82.00 | 0.18 | 1.04 |
| Ocean Energy, Inc. | OEI | | 18.52 | 178 | 3,300 | 20.00 | 0.30 | 0.95 |
| Imperial Oil Limited (30%) | IMO | | 27.83 | 114 | 3,200 | 30.00 | 0.14 | 0.94 |
| Suncor Energy | SU | | 15.24 | 454 | 6,900 | 17.00 | 0.25 | 0.92 |
| Petro-Canada | PCZ | | 27.58 | 262 | 7,200 | 31.00 | 0.11 | 0.90 |
| XTO Energy Inc. | XTO | В | 20.52 | 124 | 2,500 | 26.00 | 0.25 | 0.84 |
| CNOOC Limited (19%) | CEO | В | 26.40 | 78 | 2,100 | 33.00 | - | 0.80 |
| Norsk Hydro ASA (49%) | NHY | | 39.25 | 126 | 4,900 | 54.00 | 0.18 | 0.78 |
| PetroChina Company Ltd (10%) | PTR | В | 19.69 | 176 | 3,500 | 30.00 | 0.17 | 0.71 |
| Total or Median | | | | | 37,500 | | 0.18 | 0.90 |
| Coal Producers (Small Cap) | | | | | | | | |
| Penn Virginia Res. Part, L.P. | PVR | | 20.20 | 15 | 300 | 17.00 | - | 1.19 |
| Consol Energy Inc. | CNX | | 10.90 | 79 | 900 | 5.00 | 0.88 | 1.14 |
| Peabody Energy | BTU | | 25.00 | 55 | 1,400 | 18.00 | 0.75 | 1.10 |
| Arch Coal | ACI | | 15.50 | 48 | 700 | 18.00 | 0.61 | 0.95 |
| Alliance Res. Part, L.P. | ARLP | | 21.17 | 16 | 300 | 29.00 | 0.36 | 0.83 |
| Fording Coal (US\$) | FDG | | 14.78 | 52 | 800 | 23.00 | 0.04 | 0.66 |
| Massey Energy | MEE | | 4.84 | 75 | 400 | 18.00 | 0.37 | 0.54 |
| | | | | | 4,800 | | 0.37 | 0.95 |
| | | | | | | | | |

Buy/Sell rating after symbol: B - Buy, N - Neutral, S - Sell

McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table M-2 Mid Cap Energy Companies Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

| | | | Price (\$/sh) | EV/ | EV/ | | vidend or tribution | PV/ |
|-------------------------------------|---------|-------|------------------|-------|--------|-----|------------------------|--------|
| | Symbol/ | / | 10-Oct | Sales | Ebitda | P/E | NTM | Ebitda |
| | R | ating | 2002 | NTM | NTM | NTM | (%) | NTM |
| | | | | | | | | |
| Energy Infrastructure | | | | | | | | |
| Enterprise Products Part. | EPD | | 17.00 | 1.6 | 15.9 | 37 | 7.4 | 11.0 |
| Kinder Morgan Energy Partners, L.P. | | S | 30.63 | 3.1 | 14.5 | 16 | 8.0 | 9.0 |
| Kinder Morgan Management, LLC | KMR | S | 28.50 | 2.9 | 13.8 | 15 | 8.6 | 9.0 |
| Kinder Morgan, Inc. | KMI | S | 33.20 | 3.3 | 12.6 | 14 | 0.6 | 9.0 |
| Calpine Corporation | CPN | Ν | 2.01 | 1.8 | 10.5 | | | 10.2 |
| Constellation Energy Group | CEG | | 20.61 | 2.6 | 9.2 | 8 | 4.7 | 9.2 |
| Williams Companies | WMB | | 1.54 | 1.8 | 9.1 | | - | 9.0 |
| AES Corporation | AES | | 1.16 | 2.7 | 9.0 | | | 9.0 |
| Dynegy Inc. | DYN | | 0.73 | 0.2 | 8.8 | | - | 9.0 |
| CMS Energy Corporation | CMS | | 6.03 | 1.3 | 8.7 | 3 | 11.9 | 9.0 |
| Sempra Energy | SRE | | 18.40 | 2.3 | 8.2 | 7 | 5.4 | 9.0 |
| Mirant Corporation | MIR | | 1.26 | 0.4 | 8.1 | 1 | - | 9.0 |
| Valero Energy Corporation | VLO | | 25.42 | 0.4 | 6.7 | 6 | 1.6 | 7.8 |
| Median | | | | 1.8 | 9.1 | 8 | 4.7 | 9.0 |
| Natural Gas and Oil | | | | | | | | |
| Suncor Energy | SU | | 15.24 | 3.3 | 10.0 | 22 | 1.4 | 10.8 |
| Imperial Oil Limited (30%) | IMO | | 27.83 | 1.3 | 9.6 | 22 | 1.9 | 10.3 |
| Murphy Oil Corporation | MUR | | 86.40 | 1.0 | 8.4 | 41 | 1.7 | 8.0 |
| Ocean Energy, Inc. | OEI | | 18.52 | 4.4 | 7.4 | 32 | 0.9 | 7.8 |
| Petro-Canada | PCZ | | 27.58 | 1.7 | 6.6 | 17 | 0.9 | 7.4 |
| XTO Energy Inc. | XTO | В | 20.52 | 4.0 | 5.6 | 10 | 0.2 | 6.6 |
| CNOOC Limited (19%) | CEO | В | 26.40 | 3.9 | 5.1 | 11 | 2.4 | 6.4 |
| Norsk Hydro ASA (49%) | NHY | | 39.25 | 0.7 | 3.7 | 11 | 2.6 | 4.8 |
| PetroChina Company Ltd (10%) | PTR | В | 19.69 | 1.6 | 3.6 | 7 | 6.5 | 5.1 |
| Median | | | | 1.7 | 6.6 | 17 | 1.7 | 7.4 |
| Coal Producers (Small Cap) | | | | | | | | |
| Penn Virginia Res. Part, L.P. | PVR | | 20.20 | 9.5 | 13.1 | 15 | 9.9 | 11.0 |
| Consol Energy Inc. | CNX | | 10.90 | 1.8 | 11.1 | 25 | 5.1 | 9.7 |
| Peabody Energy | BTU | | 25.00 | 1.5 | 9.8 | 21 | 1.6 | 9.0 |
| Arch Coal | ACI | | 15.50 | 1.4 | 8.6 | 87 | 1.5 | 9.0 |
| Fording Coal (US\$) | FDG | | 14.78 | 1.4 | 5.9 | 13 | 2.6 | 9.0 |
| Alliance Res. Part, L.P. | ARLP | | 21.17 | 1.2 | 5.0 | 6 | 9.4 | 6.0 |
| Massey Energy | MEE | | 4.84 | 0.8 | 4.8 | 121 | 3.3 | 8.9 |
| | | | | 1.4 | 8.6 | 21 | 3.3 | 9.0 |
| | | | | | | | | |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciationand amortization; NTM = Next Twelve Months Ended September 30, 2003; P/E = Stock Price toEarnings; PV = Present Value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table S-1 **Small Cap Energy Companies** Rank by McDep Ratio: Market Cap and Debt to Present Value

| | Symbol/ Rat | ting | Price (\$/sh) 10-Oct 2002 | Shares (mm) | Market Cap (\$mm) | Net Present Value (\$/sh) | Debt/ Present Value | McDep Ratio |
|---------------------------------|----------------|------|------------------------------------|----------------|-------------------------|------------------------------------|---------------------------|----------------|
| Energy Infrastucture | | | | | | | | |
| El Paso Energy Partners | EPN | S | 28.36 | 42.8 | 1,210 | 10.20 | 0.64 | 1.64 |
| Enbridge Energy Partners, | EEP | | 41.86 | 31.0 | 1,300 | 16.60 | 0.58 | 1.64 |
| TEPPCO Partners, L.P. | TPP | | 28.00 | 46.5 | 1,300 | 12.90 | 0.61 | 1.46 |
| Northern Border Partners | NBP | | 36.33 | 42.0 | 1,530 | 20.10 | 0.57 | 1.35 |
| Plains All Amer. Pipeline | PAA | | 23.40 | 41.6 | 970 | 14.90 | 0.39 | 1.35 |
| AmeriGas Partners, L.P. | APU | | 22.65 | 49.0 | 1,110 | 23.50 | 0.47 | 0.98 |
| Western Gas Resources | WGR | | 31.49 | 33.8 | 1,060 | 37.60 | 0.28 | 0.88 |
| Total or Median | ! | | | | 8,500 | | 0.57 | 1.35 |
| Natural Gas and Oil | | | | | , | | | |
| Provident Energy Trust | PVX | | 6.63 | 36.0 | 240 | 5.00 | 0.46 | 1.18 |
| Dorchester Hugoton, Ltd. | DHULZ | | 12.77 | 10.7 | 137 | 11.60 | (0.17) | 1.12 |
| Pogo Producing Company | PPP | | 32.75 | 60.5 | 1,980 | 32.00 | 0.27 | 1.02 |
| Quicksilver Resources Inc. | KWK | | 17.28 | 19.4 | 340 | 19.00 | 0.44 | 0.95 |
| Newfield Exploration Company | NFX | | 32.19 | 48.9 | 1,570 | 35.00 | 0.24 | 0.94 |
| Enerplus Resources Fund | ERF | | 17.47 | 69.6 | 1,220 | 20.00 | 0.19 | 0.90 |
| Unit Corporation | UNT | | 17.75 | 36.2 | 640 | 21.00 | 0.03 | 0.85 |
| Stone Energy Company | SGY | | 31.73 | 26.4 | 840 | 42.00 | 0.29 | 0.83 |
| Penn Virginia Corporation | PVA | | 30.35 | 9.0 | 270 | 38.00 | 0.09 | 0.82 |
| Southwestern Energy Company | SWN | | 11.35 | 25.6 | 290 | 17.00 | 0.44 | 0.82 |
| Forest Oil Corporation | FST | Ν | 24.45 | 46.8 | 1,140 | 35.00 | 0.30 | 0.79 |
| Spinnaker Exploration Company | SKE | | 26.00 | 34.2 | 890 | 33.00 | - | 0.79 |
| Encore Acquisition Corp. (25%) | EAC | | 14.23 | 7.0 | 100 | 21.00 | 0.20 | 0.74 |
| Magnum Hunter Resources, Inc. | MHR | | 4.90 | 71.5 | 350 | 11.00 | 0.46 | 0.70 |
| Canadian Oil Sands Trust (US\$) | COS_u.TO | В | 21.92 | 56.9 | 1,250 | 40.00 | 0.12 | 0.60 |
| Swift Energy Company | SFY | | 7.15 | 24.8 | 180 | 22.00 | 0.32 | 0.54 |
| Total or Median | ! | | | | 11,400 | | 0.25 | 0.82 |
| Natural Gas Royalty Trusts | | | | | | | | |
| Cross Timbers Royalty Trust | CRT | | 17.25 | 6.0 | 104 | 19.70 | - | 0.88 |
| San Juan Basin Royalty Trust | SJT | в | 11.84 | 46.6 | 550 | 15.60 | - | 0.76 |
| Hugoton RoyaltyTrust (46%) | HGT | | 11.14 | 18.4 | 210 | 15.10 | - | 0.74 |
| Micro Cap | | | | | | | | |
| Abraxas Petroleum Corporation | ABP | | 0.66 | 27.0 | 18 | 2.00 | 0.84 | 0.89 |
| Energy Partners Ltd.(30%) | EPL | В | 7.90 | 8.2 | 65 | 10.00 | 0.38 | 0.87 |
| Purcell Energy, Ltd. (US\$) | PEL.TO | Ν | 1.49 | 27.3 | 41 | 3.00 | 0.22 | 0.61 |

Buy/Sell rating after symbol: B - Buy, N - Neutral, S - Sell

McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio October 14, 2002

Table S-2 **Small Cap Energy Companies** Rank by EV/Ebitda: Enterprise Value to Earnings Before Interest, Tax, Deprec.

| | | | Price (\$/sh) | EV/ | EV/ | | vidend or stribution | PV/ |
|--|-----------------|--------|------------------|------------|------------|----------|-------------------------|------------|
| | Symbol/ | | 10-Oct | Sales | Ebitda | P/E | NTM | Ebitda |
| | - | ting | 2002 | NTM | NTM | NTM | (%) | NTM |
| E | | | | | | | | |
| Energy Infrastucture | EPN | S | 28.36 | 8.3 | 14.8 | 21 | 9.5 | 9.0 |
| El Paso Energy Partners | EPN EEP | 3 | 28.36 41.86 | 8.3 6.6 | 14.8 | 81 | 9.3 8.4 | 9.0 9.0 |
| Enbridge Energy Partners, TEPPCO Partners, L.P. | EEP TPP | | 28.00 | 0.0 1.0 | 14.8 | 18 | 8.4 8.2 | 9.0 9.0 |
| Northern Border Partners | NBP | | 28.00 | 1.0 7.6 | 13.1 | 18 | 8.2 8.8 | 9.0 9.0 |
| | NBP PAA | | 30.33 23.40 | 0.2 | 12.2 | 16 | 8.8 8.8 | 9.0 9.0 |
| Plains All Amer. Pipeline | | | | | | | | |
| AmeriGas Partners, L.P. | APU | | 22.65 | 1.5 | 8.8 | 12 17 | 9.7 | 9.0 |
| Western Gas Resources | WGR | | 31.49 | 0.6 | 7.9 | 17 | 0.6 | 9.0 |
| Mediar Natural Gas and Oil | l | | | 1.5 | 12.2 | 17 | 8.8 | 9.0 |
| | DHULZ | | 12.77 | 6.1 | 9.1 | 13 | 9.5 | 8.1 |
| Dorchester Hugoton, Ltd. Quicksilver Resources Inc. | KWK | | 12.77 | 4.2 | 9.1 7.9 | 15 19 | 9.5 | 8.1 8.3 |
| | PPP | | 32.75 | 4.2 | 7.9 | 46 | 0.4 | 8.3 7.3 |
| Pogo Producing Company Provident Energy Trust | PPP PVX | | 52.73 6.63 | 4.5 3.6 | 7.4 | 46 86 | 0.4 16.7 | 7.5 6.1 |
| Enerplus Resources Fund | ERF | | 17.47 | 3.0 4.6 | 6.6 | 80 16 | 10.7 | 7.4 |
| Canadian Oil Sands Trust (US\$) | | В | 21.92 | 4.0 3.3 | 6.0 6.2 | 10 | 12.3 5.8 | 10.3 |
| Forest Oil Corporation | COS_u.TO FST | ь N | 21.92 24.45 | 3.5 3.6 | 6.2 6.2 | 20 | 5.8 | 7.8 |
| Magnum Hunter Resources, Inc. | MHR | IN | 4.90 | 5.0 2.8 | 6.2 5.8 | 20 14 | - | 7.8 8.3 |
| | UNT | | | 2.8 3.0 | 5.8 5.7 | 14 | | |
| Unit Corporation | | | 17.75 | | 5.1 | | - | 6.6 |
| Southwestern Energy Company | SWN | | 11.35 | 2.2 | | 11 9 | - | 6.3 |
| Encore Acquisition Corp. (25%) | EAC | | 14.23 | 3.3 2.9 | 4.8 4.7 | 9 20 | 3.0 | 6.5 5.8 |
| Penn Virginia Corporation | PVA | | 30.35 | | | | | |
| Swift Energy Company | SFY SKE | | 7.15 26.00 | 2.9 3.7 | 4.4 4.4 | 15 | - | 8.1 5.5 |
| Spinnaker Exploration Company | | | | | | 16 | - | |
| Stone Energy Company | SGY | | 31.73 | 3.2 | 4.2 | 9 | - | 5.0 |
| Newfield Exploration Company | NFX | | 32.19 | 2.9 | 4.1 | 13 | - | 4.4 |
| Mediar Natural Cos Doualty Truets | ı | | | 3.3 | 5.7 | 14 | - | 7.0 |
| Natural Gas Royalty Trusts | CDT | | 17.25 | 6.1 | 05 | 0 | 10.9 | 9.7 |
| Cross Timbers Royalty Trust | CRT | р | | | 8.5 | 9 | | |
| San Juan Basin Royalty Trust | SJT | В | 11.84 | 5.5 | 7.0 | 9 9 | 10.6 | 9.3 |
| Hugoton RoyaltyTrust (46%) | HGT | | 11.14 | 4.6 | 6.7 | 9 | 10.8 | 9.0 |
| Micro Cap | | | | | | | | |
| Abraxas Petroleum Corporation | ABP | | 0.66 | 4.3 | 6.2 | | - | 6.9 |
| Purcell Energy, Ltd. (US\$) | PEL.TO | Ν | 1.49 | 3.4 | 5.2 | 12 | - | 8.5 |
| Energy Partners Ltd.(30%) | EPL | В | 7.90 | 2.3 | 4.2 | | - | 4.8 |
| | | | | | | | | |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended September 30, 2003; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses