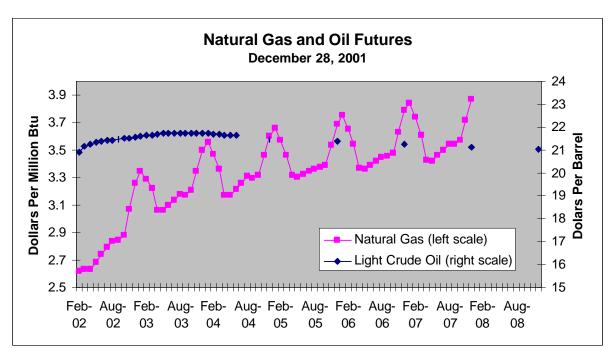
Meter Reader A Weekly Analysis of Energy Stocks Using the McDep Ratio December 31, 2001

# Loss Aversion in 2002

### **Summary and Recommendation**

Our most differentiated idea for 2002 is about averting heavy loss. Recommending Strong Sell for Kinder Morgan Energy Partners, L.P. (KMP), we stand at the opposite end of the spectrum from Wall Street analysts who, nearly unanimously, recommend Strong Buy. According to the *First Call* survey, KMP appears in a small group of the most positively recommended of all stocks. As KMP goes, so goes directly linked Kinder Morgan Management, LLC (KMR) as well as general partner Kinder Morgan, Inc. (KMI). On the positive side we expect Strong Buy Marathon Oil (MRO) to be a winner for investors after receiving its tax ruling late last week to begin 2002 completely free of the steel business. We also positively recommend natural gas producers in each size category of Large Cap, Mid Cap, Small Cap and Micro Cap. We positively recommend two Chinese energy stocks that we expect to gain in recognition with continued global growth now that China has full status as a partner in world trade. For ideas to build a diversified energy portfolio see our valuation ranking of 70 stocks now subdivided in three sets by size (Tables L-1, L-2, M-1, M-2, S-1 and S-2).

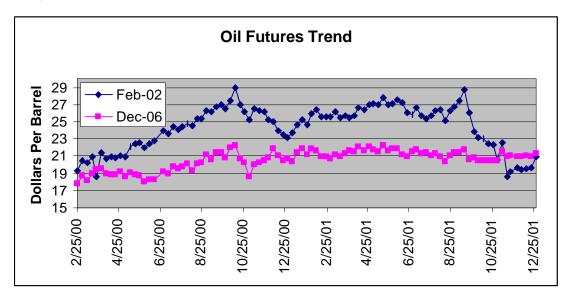
# **Energy Futures Project Calm Fundamental Outlook**



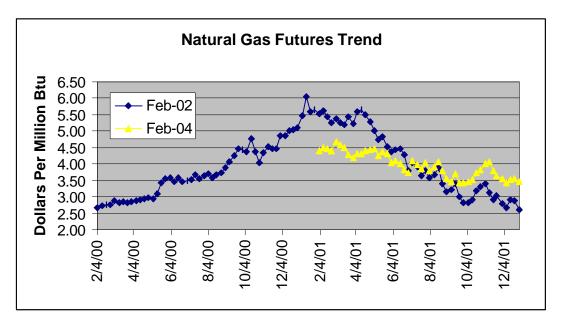
The futures market projects a stable oil price and a rising natural gas price (see Chart). A sense of calm has returned to the markets after the turmoil of a year ago.

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The futures curve for oil has been swishing like an animal's tale the past two years. The base as represented by 2006, has been stable for more than a year. The tip as represented by February 2002 has wagged to \$29 on the high side and \$19 on the low side (see Chart).



The animal tail analogy cannot be as readily demonstrated in natural gas, as public quotes for out years have been available only since Enron's private quotes dried up. While we like the positive slope of the newly available public curve, we also note that quotes for the early years have been in a downward trend (see Chart). There may be further weakness in the early months, but we expect the further out months to be stable.

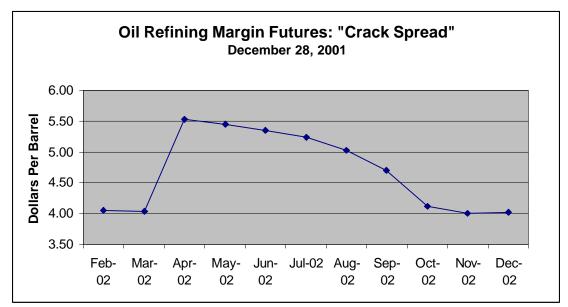


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We present futures prices as a widely representative reference point. We make our cash flow estimates consistent with futures prices. Just because we use futures doesn't mean we agree with them. We are more bullish long term than the futures market and hopeful near term that reality does not turn out to be worse than the futures market implies.

# Seasonal Strength in Refining Good For Marathon Among Others

Investors who like to concentrate their buying in the off-season might look upon the refining business with greater interest again. Coming off great profits in the first half of last year, the refiners have had tough times in December. Futures imply margin strength, though not a lot, in April and beyond (see Chart). The margin is derived from New York Mercantile Exchange quotes by subtracting prices for one barrel of heating oil and two barrels of gasoline from three barrels of light sweet crude oil.



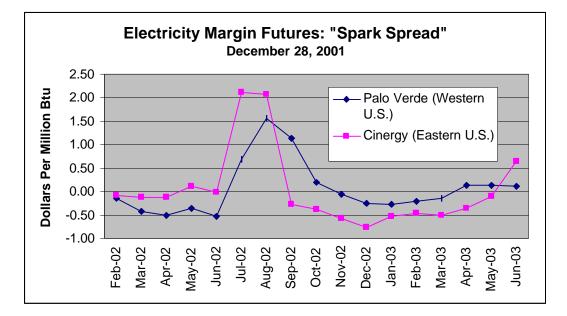
Investors who have been holding back acting on our Strong Buy recommendation of Marathon Oil might be more comfortable acting ahead of refining margin improvement. MRO is about a third natural gas, a third oil production and about a third refiner/marketer in concentration of value. On another score, the timing to buy Marathon may be the best in two decades because on January 1 the company will be a standalone integrated oil company as it was until 1981.

# Seasonal Strength in Electricity Good for Natural Gas Producers

Electricity futures point to price strength in the hot summer months of July and August. A positive spread between the price of electricity and the price of natural gas implies profitable operations for companies that generate electricity from natural gas (see Chart). It implies even more profitability in an unregulated environment for companies that

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generate electricity from low cost coal and nuclear plants such as those owned by recommended American Electric Power (AEP) and Exelon (EXC).



There is remarkable operating leverage in electricity for natural gas producers as evident by price swings on the chart above compared to the chart for natural gas. In the offseason there is enough cheap coal and nuclear capacity that we don't need much gas to be converted to electricity. In the peak season we need natural gas. Moreover, generators can afford to pay a lot. As electricity demand grows, cheap capacity will remain fixed while natural gas fueled generators meet incremental demand. The peaks we see on the price curve will spread increasingly across the year.

### Kinder Morgan Entities Overpriced, Overleveraged and Unsoundly Structured

While we see profits ahead for investors in most energy companies, we think the profits have been made, at least temporarily, in the Kinder Morgan companies. The three KM stocks have a combined market capitalization of \$13 billion and enterprise value of \$24 billion. KMP is widely recommended as an income stock for retirees. KMR and KMI are widely held by leading institutional investors. Rich Kinder is one of the most widely admired entrepreneurs in the energy industry, the newest energy billionaire in the Forbes 400.

Investors familiar with the McDep Ratio will recognize that 2.04 for KMP/KMR and 1.55 for KMI are likely unsustainably high. In more generic terms, unlevered cash flow multiples, enterprise value to ebitda, at 16.0 and 14.0 times are high for a business that trades at 9.0 times. A more reasonable enterprise value would be one third lower. That means a more reasonable market value would be two thirds or more lower.

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The risk of owning KM stocks is multiplied by high debt. KMP/KMR have a ratio of debt to present value of 0.54 while KMI measures 0.87, the highest of 31 large cap stocks in our coverage. Debt normally just magnifies in linear fashion how fast a stock may go up or down with a change in the value of its business. Too much debt introduces nonlinear risk where adverse change would threaten not only stock price decline, but also corporate survival.

The complicated structure of the KM entities rests on a master limited partnership that acquires energy infrastructure. The stock of KMP represents public limited partners, generally taxable individual investors. The stock of KMR, essentially a derivative linked to the KMP price is owned by institutional investors who are betting on individual investors continuing to pay a high price for KMP. KMI owns the balance of the limited partnership interests and, more important, KMI owns the general partner interest. Our problem with the structure is first that KMP appears to be marketed as an income vehicle to investors who most likely do not understand the high risks involved. Second there is a feature of the structure that allocates practically half the value of new acquisitions to the general partner at no cost. That conflict of interest is likely to drive the general partner to make increasingly unsound acquisitions financed in an increasingly risky manner.

The immediate challenge to the company is to market about \$450 million of new KMR stock to finance a recent acquisition. That event may lead some investors to ask new questions in the wake of other energy infrastructure investments now more reasonably priced since the initial billion dollar KMI underwriting last spring. If the underwriting can't be done, it is all over, in our opinion. It appears to us that the only way the partnership can support the dilution of the general partner burden is to sell new units far in excess of their fundamental value. In our opinion, KM keeps going because the proceeds of new financing are effectively used to repay existing investors.

### **Energy Infrastructure Partnership Suspends Distribution**

A smaller partnership that owns oil pipelines like Kinder Morgan and gathers oil at the wellhead just suspended its distribution to unitholders. Investors paid about \$20 a unit about five years ago in an underwriting of Genesis Energy Limited (GEL). For a couple years the partnership paid \$0.50 quarterly. About a year ago the distribution was cut to \$0.20 quarterly. Now there is no quarterly payment and the stock trades at a fraction of its initial price.

GEL also had an arrangement where the general partner would receive half the value of new acquisitions if the distribution could be increased somewhat above the initial level. Ironically, the weakness of the structure was exposed well before the 50% compensation bomb was detonated.

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We are not pointing a finger because an investment performed poorly. Not all our recommendations have been winners either. We do believe that the risks in some limited partnerships are not well understood by the retirees to whom they are sold.

Kurt H. Wulff, CFA

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#### Table L-1

### Mega Cap and Large Cap Energy Companies Rank by McDep Ratio: Market Cap and Debt to Present Value

|                                     |         |     | Price   |        |         | Net     |         |       |
|-------------------------------------|---------|-----|---------|--------|---------|---------|---------|-------|
|                                     |         |     | (\$/sh) |        | Market  | Present | Debt/   |       |
|                                     | Symbol/ |     | 28-Dec  | Shares | Cap     | Value   | Present | McDep |
|                                     | Rati    | ing | 2001    | (mm)   | (\$mm)  | (\$/sh) | Value   | Ratio |
| Mega Cap                            |         | 0   |         |        |         | (. ,    |         |       |
| Exxon Mobil Corporation             | XOM     |     | 39.78   | 6,924  | 275,000 | 36.00   | 0.09    | 1.10  |
| BP plc                              | BP      |     | 46.70   | 3,738  | 175,000 | 47.00   | 0.16    | 0.99  |
| Royal Dutch/Shell                   | RD      | 3   | 49.79   | 3,520  | 175,000 | 55.00   | 0.04    | 0.91  |
| TotalFinaElf S.A.                   | TOT     |     | 70.34   | 1,382  | 97,000  | 80.00   | 0.15    | 0.90  |
| ChevronTexaco Corporation           | CVX     |     | 90.44   | 1,062  | 96,100  | 110.00  | 0.14    | 0.85  |
| Total or Mediar                     | ı       |     |         |        | 818,000 |         | 0.14    | 0.91  |
| Energy Infrastructure               |         |     |         |        |         |         |         |       |
| Kinder Morgan Management, LLC       | KMR     | 5   | 37.60   | 30     | 1,100   | 11.50   | 0.54    | 2.04  |
| Kinder Morgan Energy Partners, L.P. | KMP     | 5   | 37.50   | 135    | 5,100   | 11.50   | 0.54    | 2.04  |
| Kinder Morgan, Inc.                 | KMI     | 5   | 56.52   | 121    | 6,800   | 10.90   | 0.87    | 1.55  |
| AES Corporation                     | AES     |     | 16.62   | 543    | 9,000   | 8.80    | 0.83    | 1.15  |
| Dynegy Inc.                         | DYN     |     | 25.64   | 338    | 8,700   | 20.30   | 0.58    | 1.11  |
| Calpine Corporation                 | CPN     | 3   | 16.39   | 377    | 6,200   | 12.50   | 0.66    | 1.11  |
| Duke Energy Corporation             | DUK     |     | 39.69   | 773    | 30,700  | 35.80   | 0.43    | 1.06  |
| El Paso Corporation                 | EPG     |     | 45.72   | 532    | 24,300  | 44.80   | 0.49    | 1.01  |
| American Electric Power Co. Inc.    | AEP     | 2   | 43.28   | 322    | 13,900  | 43.40   | 0.63    | 1.00  |
| Southern Company                    | SO      |     | 25.40   | 683    | 17,300  | 27.40   | 0.42    | 0.96  |
| Mirant Corporation                  | MIR     |     | 15.35   | 353    | 5,400   | 18.60   | 0.65    | 0.94  |
| Williams Companies                  | WMB     |     | 25.69   | 515    | 13,200  | 32.30   | 0.47    | 0.89  |
| Dominion Resources                  | D       |     | 59.60   | 247    | 14,700  | 79.40   | 0.45    | 0.86  |
| Exelon Corporation                  | EXC     | 2   | 47.55   | 323    | 15,400  | 84.00   | 0.40    | 0.74  |
| Total or Mediar                     | ı       |     |         |        | 166,000 |         | 0.53    | 1.00  |
| Natural Gas and Oil                 |         |     |         |        |         |         |         |       |
| Occidental Petroleum Corp.          | OXY     |     | 26.93   | 372    | 10,000  | 28.50   | 0.50    | 0.97  |
| Unocal Corporation                  | UCL     |     | 35.79   | 257    | 9,200   | 38.90   | 0.35    | 0.95  |
| Anadarko Petroleum Corp.            | APC     |     | 57.43   | 250    | 14,400  | 64.10   | 0.24    | 0.92  |
| ConocoPhillips                      | Р       |     | 60.49   | 680    | 41,200  | 71.20   | 0.34    | 0.90  |
| ENI S.p.A.                          | Е       |     | 62.18   | 789    | 49,000  | 71.40   | 0.19    | 0.90  |
| Devon Energy (incl MND,AXN)         | DVN     |     | 39.20   | 165    | 6,500   | 54.60   | 0.48    | 0.85  |
| Burlington Resources (incl HTR)     | BR      | 1   | 37.88   | 205    | 7,800   | 53.00   | 0.30    | 0.80  |
| Marathon Oil Corporation            | MRO     | 1   | 30.11   | 310    | 9,300   | 42.00   | 0.27    | 0.79  |
| OAO Lukoil                          | LUKOY   |     | 48.50   | 299    | 14,500  | 69.10   | 0.09    | 0.73  |
| Total or Mediar                     | ı       |     |         |        | 152,000 |         | 0.28    | 0.88  |
| Service                             |         |     |         |        |         |         |         |       |
| Baker Hughes Inc.                   | BHI     |     | 36.94   | 338    | 12,500  | 24.50   | 0.13    | 1.44  |
| Schlumberger Ltd.                   | SLB     |     | 54.98   | 581    | 31,900  | 44.00   | 0.12    | 1.22  |
| Halliburton Company                 | HAL     |     | 13.19   | 429    | 5,700   | 24.90   | 0.12    | 0.59  |
|                                     |         |     |         |        |         |         |         |       |

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

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#### Table L-2

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

|                                     | Price Dividend or |   |         |       |        |     |           |        |
|-------------------------------------|-------------------|---|---------|-------|--------|-----|-----------|--------|
|                                     |                   |   | (\$/sh) | EV/   | EV/    | Dis | tribution | PV/    |
|                                     | Symbol/           |   | 28-Dec  | Sales | Ebitda | P/E | NTM       | Ebitda |
|                                     | Rating            | 2 | 2001    | NTM   | NTM    | NTM | (%)       | NTM    |
| Mega Cap                            | 0                 |   |         |       |        |     |           |        |
| Exxon Mobil Corporation             | XOM               |   | 39.78   | 1.5   | 12.1   | 28  | 2.3       | 11.1   |
| BP plc                              | BP                |   | 46.70   | 1.2   | 10.8   | 20  | 2.8       | 10.8   |
| Royal Dutch/Shell                   | RD 3              | 3 | 49.79   | 1.1   | 9.9    | 25  | 2.8       | 10.9   |
| TotalFinaElf S.A.                   | TOT               |   | 70.34   | 1.3   | 9.8    | 21  | 2.6       | 10.9   |
| ChevronTexaco Corporation           | CVX               |   | 90.44   | 1.3   | 9.3    | 21  | 3.1       | 11.0   |
| Median                              |                   |   |         | 1.3   | 9.9    | 21  | 2.8       | 10.9   |
| Energy Infrastructure               |                   |   |         |       |        |     |           |        |
| Kinder Morgan Management, LLC       | KMR 5             | 5 | 37.60   | 5.1   | 16.4   | 27  | 5.9       | 8.0    |
| Kinder Morgan Energy Partners, L.P. | KMP 5             | 5 | 37.50   | 5.2   | 16.3   | 27  | 5.9       | 8.0    |
| Kinder Morgan, Inc.                 | KMI 5             | 5 | 56.52   | 7.3   | 14.3   | 29  | 0.4       | 9.2    |
| AES Corporation                     | AES               |   | 16.62   | 3.6   | 10.4   | 13  | -         | 9.0    |
| Dynegy Inc.                         | DYN               |   | 25.64   | 0.5   | 10.0   | 12  | 1.2       | 9.0    |
| Calpine Corporation                 | CPN 3             | 3 | 16.39   | 2.0   | 10.0   | 10  | -         | 9.0    |
| Duke Energy Corporation             | DUK               |   | 39.69   | 0.8   | 9.6    | 15  | 2.8       | 9.0    |
| El Paso Corporation                 | EPG               |   | 45.72   | 0.9   | 9.1    | 14  | 1.9       | 9.0    |
| American Electric Power Co. Inc.    | AEP 2             | 2 | 43.28   | 0.5   | 9.0    | 12  | 5.5       | 9.0    |
| Southern Company                    | SO                |   | 25.40   | 2.8   | 8.6    | 16  | 5.3       | 9.0    |
| Mirant Corporation                  | MIR               |   | 15.35   | 0.5   | 8.4    | 7   | -         | 9.0    |
| Williams Companies                  | WMB               |   | 25.69   | 2.4   | 8.0    | 11  | 3.1       | 9.0    |
| Dominion Resources                  | D                 |   | 59.60   | 3.4   | 7.8    | 14  | 4.3       | 9.0    |
| Exelon Corporation                  | EXC 2             | 2 | 47.55   | 2.2   | 6.7    | 10  | 3.6       | 9.0    |
| Median                              |                   |   |         | 2.3   | 9.3    | 13  | 2.9       | 9.0    |
| Natural Gas and Oil                 |                   |   |         |       |        |     |           |        |
| Occidental Petroleum Corp.          | OXY               |   | 26.93   | 1.5   | 9.7    | 24  | 3.7       | 10.0   |
| Anadarko Petroleum Corp.            | APC               |   | 57.43   | 3.0   | 8.8    | 26  | 0.5       | 9.5    |
| Unocal Corporation                  | UCL               |   | 17.11   | 2.7   | 8.1    | 66  | 2.2       | 8.5    |
| ConocoPhillips                      | Р                 |   | 60.49   | 0.8   | 7.7    | 20  | 2.4       | 8.5    |
| ENI S.p.A.                          | Е                 |   | 62.18   | 1.6   | 7.2    | 16  | 2.9       | 8.0    |
| Burlington Resources (incl HTR)     | BR                | 1 | 37.88   | 4.3   | 6.5    | 29  | 1.5       | 8.1    |
| Devon Energy (incl MND,AXN)         | DVN               |   | 39.20   | 3.3   | 6.0    | 19  | 0.5       | 7.0    |
| Marathon Oil Corporation            | MRO               | 1 | 30.11   | 0.4   | 5.2    | 11  | 3.1       | 6.5    |
| OAO Lukoil                          | LUKOY             |   | 48.50   | 1.3   | 4.4    | 10  | 2.2       | 6.0    |
| Median                              |                   |   |         | 1.6   | 7.2    | 20  | 2.2       | 8.1    |
| Service                             |                   |   |         |       |        |     |           |        |
| Baker Hughes Inc.                   | BHI               |   | 36.94   | 2.3   | 11.5   | 26  | 1.2       | 9.0    |
| Schlumberger Ltd.                   | SLB               |   | 54.98   | 2.8   | 9.7    | 27  | 1.4       | 9.0    |
| Halliburton Company                 | HAL               |   | 13.19   | 0.5   | 4.7    | 10  | 3.8       | 9.0    |
|                                     |                   |   |         |       |        |     |           |        |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation and amortization; NTM = Next Twelve Months Ended December 31, 2002; P/E = Stock Price to Earnings; PV = Present Value of oil and gas and other businesses

A Weekly Analysis of Energy Stocks Using the McDep Ratio December 31, 2001

### Table M-1 **Mid Cap Energy Companies** Rank by McDep Ratio: Market Cap and Debt to Present Value

|                               |         | Price<br>(\$/sh) |        | Market | Net<br>Present | Debt/   |       |
|-------------------------------|---------|------------------|--------|--------|----------------|---------|-------|
|                               | Symbol/ | 28-Dec           | Shares | Cap    | Value          | Present | McDep |
|                               | Rating  | 2001             | (mm)   | (\$mm) | (\$/sh)        | Value   | Ratio |
| Energy Infrastructure         |         |                  |        |        |                |         |       |
| Enterprise Products Part.     | EPD     | 46.91            | 87     | 4,100  | 31.70          | 0.23    | 1.37  |
| Consol Energy Inc.            | CNX     | 24.64            | 79     | 2,000  | 35.90          | 0.51    | 0.85  |
| CMS Energy Corporation        | CMS     | 23.95            | 128    | 3,100  | 48.30          | 0.62    | 0.81  |
| Sempra Energy                 | SRE     | 24.61            | 203    | 5,000  | 41.70          | 0.50    | 0.80  |
| Valero Energy Corp.(with UDS) | VLO     | 37.81            | 110    | 4,200  | 60.00          | 0.47    | 0.80  |
| Constellation Energy Group    | CEG     | 26.72            | 152    | 4,100  | 56.50          | 0.35    | 0.66  |
| Total or Median               | Į.      |                  |        | 18,400 |                | 0.50    | 0.81  |
| Natural Gas and Oil           |         |                  |        |        |                |         |       |
| Murphy Oil Corporation        | MUR     | 84.46            | 46     | 3,900  | 82.00          | 0.18    | 1.02  |
| Ocean Energy, Inc.            | OEI     | 19.29            | 178    | 3,400  | 20.00          | 0.30    | 0.98  |
| Imperial Oil Limited (30%)    | IMO     | 28.09            | 119    | 3,400  | 30.00          | 0.11    | 0.94  |
| Norsk Hydro ASA (49%)         | NHY     | 42.00            | 127    | 5,300  | 54.00          | 0.18    | 0.82  |
| PanCanadian Energy            | PCX 2   | 25.59            | 256    | 6,560  | 33.00          | 0.14    | 0.81  |
| Petro-Canada                  | PCZ     | 24.96            | 267    | 6,700  | 33.00          | 0.08    | 0.78  |
| PetroChina Company Ltd (10%)  | PTR 2   | 17.99            | 176    | 3,200  | 28.00          | 0.16    | 0.70  |
| Total or Median               | l.      |                  |        | 32,500 |                | 0.16    | 0.82  |

Buy/Sell rating after symbol: 1 - Strong Buy, 2 - Buy, 3 - Neutral

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 December 31, 2001

#### Table M-2

Mid Cap Energy Companies

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

|                               |         |      | Price<br>§/sh) | EV/   | EV/    |     | Dividend or<br>Distribution | PV/    |
|-------------------------------|---------|------|----------------|-------|--------|-----|-----------------------------|--------|
|                               | Symbol/ |      | Dec            | Sales | Ebitda | P/E | NTM                         | Ebitda |
|                               | Ratin   | g 2  | 2001           | NTM   | NTM    | NTM | (%)                         | NTM    |
| Energy Infrastructure         |         |      |                |       |        |     |                             |        |
| Enterprise Products Part.     | EPD     | 46   | 5.91           | 1.7   | 12.3   | 14  | 5.3                         | 9.0    |
| Consol Energy Inc.            | CNX     | 24   | 4.64           | 2.1   | 7.6    | 8   | 4.5                         | 9.0    |
| CMS Energy Corporation        | CMS     | 23   | 3.95           | 0.9   | 7.3    | 9   | 6.1                         | 9.0    |
| Sempra Energy                 | SRE     | 24   | 4.61           | 1.1   | 7.2    | 10  | 4.1                         | 9.0    |
| Constellation Energy Group    | CEG     | 26   | 5.72           | 1.7   | 5.9    | 8   | 1.8                         | 9.0    |
| Valero Energy Corp.(with UDS) | VLO     | 37   | 7.81           | 0.3   | 5.3    | 6   | 1.1                         | 6.7    |
| Median                        | !       |      |                | 1.4   | 7.2    | 8   | 4.3                         | 9.0    |
| Natural Gas and Oil           |         |      |                |       |        |     |                             |        |
| Imperial Oil Limited (30%)    | IMO     | 28   | 8.09           | 1.1   | 10.4   | 27  | 1.9                         | 11.1   |
| Murphy Oil Corporation        | MUR     | 84   | 4.46           | 1.0   | 8.2    | 40  | 1.8                         | 8.0    |
| Ocean Energy, Inc.            | OEI     | 19   | 9.29           | 4.5   | 7.6    | 33  | 0.8                         | 7.8    |
| PanCanadian Energy            | PCX     | 2 25 | 5.59           | 1.3   | 6.7    | 16  | 1.0                         | 8.3    |
| Petro-Canada                  | PCZ     | 24   | 4.96           | 1.4   | 5.4    | 12  | 1.0                         | 6.9    |
| Norsk Hydro ASA (49%)         | NHY     | 42   | 2.00           | 0.8   | 4.9    | 15  | 2.5                         | 6.0    |
| PetroChina Company Ltd (10%)  | PTR     | 2 17 | 7.99           | 1.7   | 3.7    | 9   | 10.2                        | 5.4    |
| Median                        | !       |      |                | 1.3   | 6.7    | 16  | 1.8                         | 7.8    |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciationand amortization; NTM = Next Twelve Months Ended December 31, 2002; 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 December 31, 2001

#### Table S-1

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

|                                    |                 |    | Price             |                | Market        | Net<br>Present   | Debt/            |                |
|------------------------------------|-----------------|----|-------------------|----------------|---------------|------------------|------------------|----------------|
|                                    | Sumb al/        |    | (\$/sh)<br>28-Dec | Shares         |               | Present<br>Value | Debt/<br>Present | MaDan          |
|                                    | Symbol/<br>Rati | na | 28-Dec<br>2001    | Snares<br>(mm) | Cap<br>(\$mm) | vaiue<br>(\$/sh) | Present<br>Value | McDep<br>Ratio |
|                                    | Kull            | ng | 2001              | (1111)         | (\$1111)      | ( <i>\psi</i> )  | vuiue            | Кино           |
| Energy Infrastucture               |                 |    |                   |                |               |                  |                  |                |
| El Paso Energy Partners            | EPN             |    | 36.99             | 34.0           | 1,260         | 6.40             | 0.71             | 2.38           |
| Penn Virginia Res. Part, L.P.(48%) | ) PVR           |    | 25.74             | 7.5            | 190           | 15.10            | -                | 1.70           |
| Enbridge Energy Partners,          | EEP             |    | 42.15             | 31.0           | 1,310         | 16.60            | 0.58             | 1.65           |
| Plains All Amer. Pipeline          | PAA             |    | 25.85             | 38.0           | 980           | 14.30            | 0.47             | 1.43           |
| TEPPCO Partners, L.P.              | TPP             |    | 30.30             | 39             | 1,170         | 15.60            | 0.69             | 1.29           |
| Northern Border Partners           | NBP             |    | 39.00             | 42.0           | 1,640         | 30.00            | 0.41             | 1.18           |
| AmeriGas Partners, L.P.            | APU             |    | 22.29             | 44.0           | 980           | 19.50            | 0.54             | 1.07           |
| Penn Virginia Corporation          | PVA             |    | 34.50             | 9.0            | 310           | 35.00            | 0.10             | 0.99           |
| Total or Median                    |                 |    |                   |                | 7,800         |                  | 0.50             | 1.36           |
| Natural Gas and Oil                |                 |    |                   |                |               |                  |                  |                |
| Quicksilver Resources Inc.         | KWK             |    | 19.00             | 19.3           | 370           | 10.00            | 0.60             | 1.35           |
| Dorchester Hugoton, Ltd.           | DHULZ           |    | 14.45             | 10.7           | 155           | 11.30            | -                | 1.28           |
| Spinnaker Exploration Company      | SKE             |    | 42.16             | 28.3           | 1,200         | 40.00            | -                | 1.05           |
| Stone Energy Company               | SGY             |    | 40.04             | 26.4           | 1,060         | 42.00            | 0.11             | 0.96           |
| Newfield Exploration Company       | NFX             |    | 35.52             | 49.3           | 1,750         | 39.00            | 0.21             | 0.93           |
| XTO Energy Inc.                    | XTO             |    | 16.94             | 124.0          | 2,100         | 19.00            | 0.28             | 0.92           |
| Swift Energy Company               | SFY             |    | 21.23             | 24.8           | 530           | 25.00            | 0.29             | 0.89           |
| Encore Acquisition Corp. (25%)     | EAC             |    | 13.00             | 7.5            | 98            | 16.00            | 0.22             | 0.86           |
| Southwestern Energy Company        | SWN             |    | 10.90             | 25.6           | 280           | 15.00            | 0.47             | 0.86           |
| Magnum Hunter Resources, Inc.      | MHR             |    | 8.28              | 36.8           | 310           | 11.00            | 0.35             | 0.84           |
| Forest Oil Corporation             | FST             | 2  | 28.49             | 48.5           | 1,380         | 37.00            | 0.28             | 0.83           |
| CNOOC Limited (19%)                | CEO             | 2  | 19.15             | 78             | 1,490         | 30.00            | -                | 0.64           |
| Total or Median                    |                 |    |                   |                | 10,700        |                  | 0.25             | 0.91           |
| Natural Gas Royalty Trusts         |                 |    |                   |                |               |                  |                  |                |
| Cross Timbers Royalty Trust        | CRT             |    | 18.45             | 6.0            | 111           | 18.00            | -                | 1.03           |
| Hugoton RoyaltyTrust               | HGT             |    | 10.39             | 40.0           | 420           | 14.30            | -                | 0.73           |
| San Juan Basin Royalty Trust       | SJT             | 2  | 9.54              | 46.6           | 450           | 14.10            | -                | 0.68           |
| Micro Cap                          |                 |    |                   |                |               |                  |                  |                |
| Abraxas Petroleum Corporation      | ABP             |    | 1.30              | 23.6           | 31            | 0.50             | 0.96             | 1.06           |
| Energy Partners Ltd. (30%)         | EPL             | 2  | 7.70              | 8.1            | 62            | 10.00            | 0.34             | 0.85           |
| Purcell Energy, Ltd. (US\$)        | PEL.TO          | 2  | 2.11              | 27.4           | 58            | 3.50             | 0.09             | 0.64           |
|                                    |                 |    |                   |                |               |                  |                  |                |

Buy/Sell rating after symbol: 1 - Strong Buy, 2 - Buy, 3 - Neutral

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 December 31, 2001

#### Table S-2

#### Small Cap Energy Companies

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

|                                    |         |    | Price<br>(\$/sh) | EV/   | EV/    | Dividend or<br>Distribution |      | PV/    |
|------------------------------------|---------|----|------------------|-------|--------|-----------------------------|------|--------|
|                                    | Symbol/ |    | 28-Dec           | Sales | Ebitda | P/E                         | NTM  | Ebitda |
|                                    | Rati    | ng | 2001             | NTM   | NTM    | NTM                         | (%)  | NTM    |
| Energy Infrastucture               |         |    |                  |       |        |                             |      |        |
| El Paso Energy Partners            | EPN     |    | 36.99            | 10.5  | 21.4   | 103                         | 6.6  | 9.0    |
| Penn Virginia Res. Part, L.P.(48%) | )PVR    |    | 25.74            | 11.5  | 15.3   | 18                          | 7.8  | 9.0    |
| Enbridge Energy Partners,          | EEP     |    | 42.15            | 6.7   | 14.9   | 81                          | 8.3  | 9.0    |
| Plains All Amer. Pipeline          | PAA     |    | 25.85            | 0.2   | 12.9   | 17                          | 7.9  | 9.0    |
| TEPPCO Partners, L.P.              | TPP     |    | 30.30            | 0.7   | 11.6   | 14                          | 7.6  | 9.0    |
| Northern Border Partners           | NBP     |    | 39.00            | 7.2   | 11.2   | 15                          | 7.8  | 9.0    |
| AmeriGas Partners, L.P.            | APU     |    | 22.29            | 1.4   | 9.6    | 19                          | 9.9  | 9.0    |
| Penn Virginia Corporation          | PVA     |    | 34.50            | 4.7   | 8.7    | 41                          | 2.6  | 8.8    |
| Median                             |         |    |                  | 5.7   | 12.2   | 18                          | 7.8  | 9.0    |
| Natural Gas and Oil                |         |    |                  |       |        |                             |      |        |
| Quicksilver Resources Inc.         | KWK     |    | 19.00            | 6.3   | 17.2   |                             | -    | 12.7   |
| Dorchester Hugoton, Ltd.           | DHULZ   |    | 14.45            | 9.8   | 15.0   | 20                          | 19.9 | 11.7   |
| XTO Energy Inc.                    | XTO     |    | 16.94            | 5.9   | 9.1    | 27                          | 0.2  | 9.9    |
| Encore Acquisition Corp. (25%)     | EAC     |    | 13.00            | 4.8   | 8.9    | 33                          | -    | 10.3   |
| Spinnaker Exploration Company      | SKE     |    | 42.16            | 7.5   | 8.8    | 40                          | -    | 8.4    |
| Swift Energy Company               | SFY     |    | 21.23            | 5.7   | 8.4    | 39                          | -    | 9.4    |
| Forest Oil Corporation             | FST     | 2  | 28.49            | 3.0   | 7.0    | 258                         | -    | 8.4    |
| Magnum Hunter Resources, Inc.      | MHR     |    | 8.28             | 3.8   | 6.5    |                             | -    | 7.8    |
| Southwestern Energy Company        | SWN     |    | 10.90            | 2.7   | 6.2    | 22                          | -    | 7.3    |
| Stone Energy Company               | SGY     |    | 40.04            | 4.3   | 5.8    | 29                          | -    | 6.0    |
| CNOOC Limited (19%)                | CEO     | 2  | 19.15            | 3.7   | 5.0    | 11                          | 1.3  | 7.9    |
| Newfield Exploration Company       | NFX     |    | 35.52            | 3.8   | 4.8    | 16                          | -    | 5.2    |
| Median                             |         |    |                  | 4.5   | 7.7    | 28                          | -    | 8.4    |
| Natural Gas Royalty Trusts         |         |    |                  |       |        |                             |      |        |
| Cross Timbers Royalty Trust        | CRT     |    | 18.45            | 7.4   | 13.3   | 14                          | 7.0  | 12.9   |
| Hugoton RoyaltyTrust               | HGT     |    | 10.39            | 5.2   | 8.3    | 13                          | 7.6  | 11.4   |
| San Juan Basin Royalty Trust       | SJT     | 2  | 9.54             | 5.9   | 7.9    | 12                          | 8.4  | 11.6   |
| Micro Cap                          |         |    |                  |       |        |                             |      |        |
| Abraxas Petroleum Corporation      | ABP     |    | 1.30             | 6.5   | 12.5   |                             | -    | 11.8   |
| Energy Partners Ltd.(30%)          | EPL     | 2  | 7.70             | 2.7   | 6.0    |                             | -    | 7.1    |
| Purcell Energy, Ltd. (US\$)        | PEL.TO  | 2  | 2.11             | 3.3   | 4.7    | 14                          | -    | 7.3    |

EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciationand amortization; NTM = Next Twelve Months Ended December 31, 2002; P/E = Stock Price toEarnings; PV = Present Value of oil and gas and other businesses