

Rating: Buy
 S&P 500: 1113

Royal Dutch Petroleum

Healthy Shakeup

<i>Symbol</i>	RD	<i>Ebitda Next Twelve Months ending 3/31/05 (US\$mm)</i>	26,000
<i>Rating</i>	Buy	<i>North American Natural Gas/Ebitda (%)</i>	5
<i>Price (US\$/sh)</i>	50.08	<i>Natural Gas and Oil Production/Ebitda (%)</i>	63
<i>Pricing Date</i>	5/25/04	<i>Adjusted Reserves/Production NTM</i>	8.4
<i>Shares (mm)</i>	2033	<i>EV/Ebitda</i>	4.9
<i>Market Capitalization (US\$mm)</i>	101,800	<i>PV/Ebitda</i>	5.7
<i>Debt (US\$mm)</i>	25,900	<i>Undeveloped Reserves (%)</i>	40
<i>Enterprise Value (EV) (US\$mm)</i>	127,700	<i>Natural Gas and Oil Ebitda (US\$/boe)</i>	19.70
<i>Present Value (PV) (US\$mm)</i>	147,900	<i>Present Value Proven Reserves(US\$/boe)</i>	10.58
<i>Net Present Value (US\$/share)</i>	60	<i>Present Value Proven Reserves(US\$/mcf)</i>	1.76
<i>Debt/Present Value</i>	0.18	<i>Earnings Next Twelve Months (US\$/sh)</i>	3.50
<i>McDep Ratio - EV/PV</i>	0.86	<i>Price/Earnings Next Twelve Months</i>	14
<i>Dividend Yield (%/year)</i>	4.2	<i>Indicated Annual Dividend (US\$/sh)</i>	2.11

Note: Estimated cash flow and earnings tied to one-year futures prices for oil, natural gas and refinery crack.

Reported results may vary widely from estimates. Estimated present value per share revised only infrequently.

Summary and Recommendation

We continue to recommend current purchase of **Royal Dutch Petroleum (RD)**, 60% owner of the Royal Dutch/Shell Group, for attractive mega cap participation in rising oil and gas value and renewed profitability in oil products. A reduction of estimates of reserves, mostly in the undeveloped category, has been largely reflected in stock price. At the same time a management shakeup is likely to have a constructive long-term effect, perhaps in the eventual simplification of ownership of the Group. As it has been traditionally, the Group is more downstream oriented than other mega caps. We see 22% appreciation potential to net present value of US\$60 a share and a long term return of about 5% per year above inflation thereafter. A low ratio of debt to present value implies low financial risk.

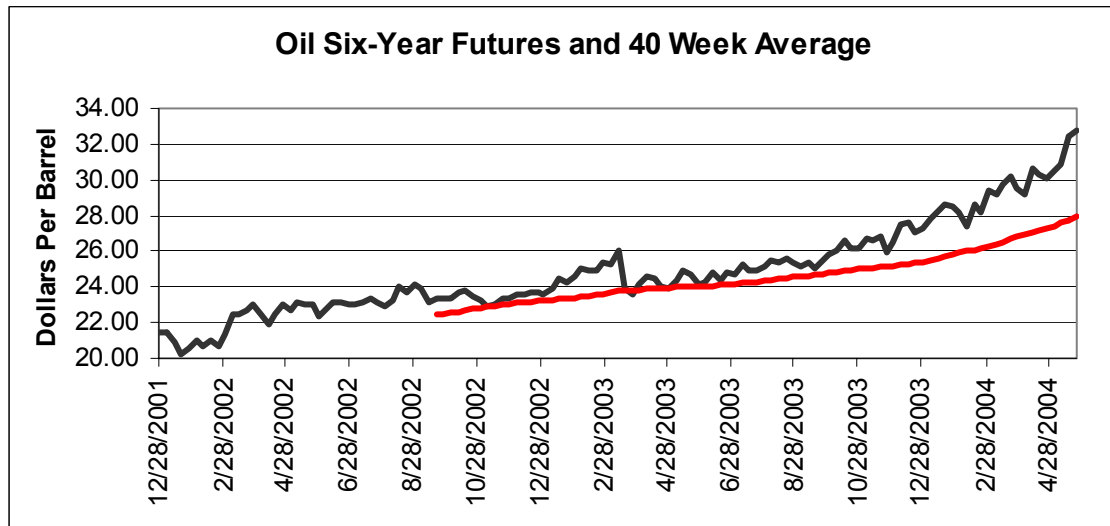
Oil Looks Up by the Charts, Fundamentals, Inflation and Security

Six-year futures describe the commodity price trends most relevant to estimating resource value. The longer time horizon better matches the period during which more of current resources will actually be produced. The longer term measure also smoothes the frantic near-month fluctuations and has the potential to keep climbing even if near-month quotes drop back temporarily.

The plots of weekly results since the beginning of 2002 trace a trend of six-year oil price rising 16% a year (see chart). We measure momentum with the 40-week moving average. The charts look good as long as the current six-year quote remains above the trailing average.

Fundamental factors support the price trends. Oil demand is strong with world economic growth paced by developing countries, especially China. Supply is tight as the Middle East is showing maturity with the workhorse giant fields on the verge of peaking.

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Monetary factors also favor oil investment as interest rates below inflation drive investors to real assets for protection against currency debasement. Compared to Treasury Inflation Protected Securities that we also favor, oil price is likely to rise more than the official government determined inflation measure.

There appears to be little of the cost of maintaining global security reflected in the price of oil. The U.S. military presence in the Middle East may be controversial today. Yet when the U.S. supported government in Iran fell at the end of the 1970s, the world experienced its highest energy prices ever.

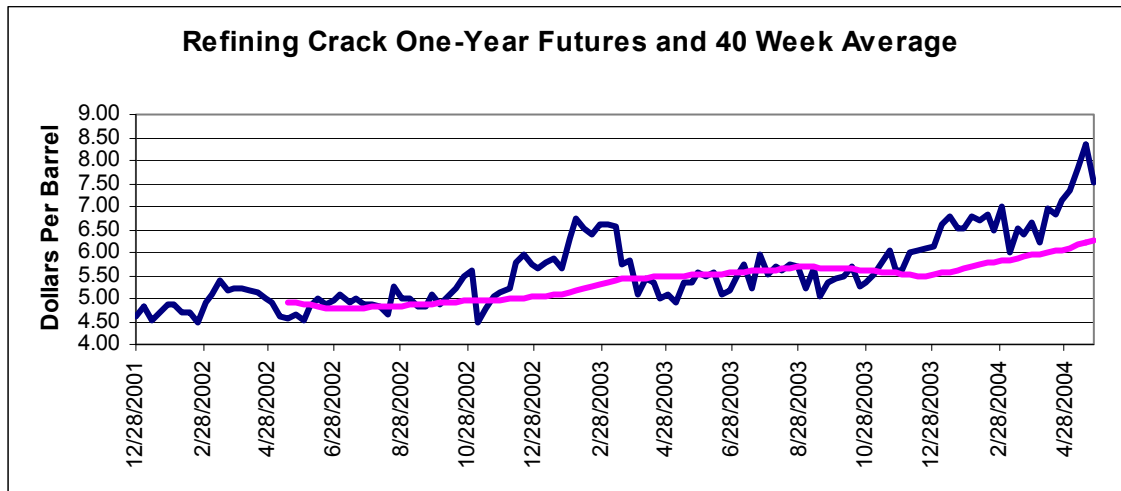
At some point oil price could be too strong and economic activity would be adversely affected. Six times in the past thirty years the annual gain in monthly price exceeded 70% briefly. June futures near \$40 a barrel for Light, Sweet Crude Oil would have to exceed \$52 a barrel to trigger a 70% warning.

Downstream Trends Also Strong

Industry people like to refer to the oil producing business as upstream and the oil refining/marketing business as downstream. Strong upstream business prospects captured in the rising trend of six-year futures are complemented by improving downstream prospects captured in the trend of one-year refining crack futures (see chart).

Compared to the two previous years, there has been no sign yet of a temporary peak in the trend. Perhaps there will be some falloff this year as in the past, but it would occur from a higher level.

The crack spread we measure is the price of two-thirds barrel of gasoline plus one-third barrel of heating oil minus a barrel of crude oil. While there are innumerable varieties of crude oil and products quoted around the world there is only one source of transparent, public quotes of futures prices for the next year, the New York Mercantile Exchange. As a result we use the Nymex quotes as an indicator of future downstream profitability globally, recognizing that markets are linked meaningfully, if not perfectly. Finally, the crack spread should be seasonally neutral because it always includes twelve months.



Volume, Price and Costs Translate to Attractive Cash Flow

Our process of estimating company-specific present value begins with an estimate of next twelve months cash flow. Current projections lead to a healthy level of unlevered cash flow, also known as Ebitda, short for earnings before interest, tax, depreciation and amortization (see table). We choose the next twelve months ending March 31, 2005 as the relevant time period.

For the next twelve months we project constant natural gas and oil volume at the first quarter 2004 level. That is sufficient for our valuation calculation. Management provides rich detail in conference calls, presentations and copious regulatory disclosures to put more color on a projection of growth for the rest of the decade.

We take the futures market at face value in projecting price for the next twelve months. Henry Hub quotes guide our projection of natural gas revenue. Light Sweet Crude quotes guide our projections of oil revenue. The refinery crack futures guide our projections of downstream cash flow. Because futures are constantly changing, our projection is adjusted accordingly. As a result, the specific amounts we project today may not be the amounts realized when the company next reports.

Assess Present Value Multiple Depending on Reserve Life

The important variables in the valuation of future production are captured in base year cash flow and a multiple of that cash flow that depends on reserve life. Indeed investors do differentiate on that basis as reflected in a high correlation of unlevered cash flow multiple with adjusted reserve life. We convert the market relationship to a formula that produces an anticipatory value with somewhat more sensitivity to reserve life.

Royal Dutch/Shell
Next Twelve Months Operating and Financial Estimates

	<i>Q1</i>	<i>Q2E</i>	<i>Q3E</i>	<i>Q4E</i>	<i>Year</i>	<i>Q1E</i>	<i>Next</i>
	<i>3/31/04</i>	<i>6/30/04</i>	<i>9/30/04</i>	<i>12/31/04</i>	<i>2004E</i>	<i>3/31/05</i>	<i>Twelve</i>
							<i>Months</i>
							<i>3/31/05</i>
Volume							
Natural Gas (mmcf)							
U.S. (or North America)	1,405	1,405	1,405	1,405	1,405	1,405	1,405
Overseas (or Int'l)	8,767	6,429	5,845	8,183	7,300	8,760	7,299
Total	10,172	7,834	7,250	9,588	8,705	10,165	8,704
Oil (mmb)	2,342	2,342	2,342	2,342	20,001	2,342	2,342
Total gas & oil (mmb)	363	332	327	362	1,384	363	1,384
Price							
Natural gas (\$/mcf)							
Henry Hub (\$/mmbtu)	5.64	6.22	6.78	6.93	6.39	7.11	6.76
U.S. (or North America)	5.81	5.60	6.10	6.24	5.94	6.40	6.08
Overseas (or Int'l)	3.01	3.40	3.55	3.39	3.31	3.24	3.38
Total	3.40	3.80	4.04	3.81	3.74	3.68	3.82
Oil (\$/bbl)							
WTI Cushing	35.23	39.51	41.20	39.42	38.84	37.67	39.45
Worldwide	30.33	34.02	35.47	33.94	33.46	32.44	33.98
Total gas & oil (\$/bbl)	26.15	30.00	31.65	29.45	29.24	28.09	29.74
NY Harbor 3-2-1 (\$/bbl)	6.98	12.29	9.34	5.82	8.61	5.82	8.32
Revenue (\$mm)							
Natural Gas							
U.S. (or North America)	735	716	788	806	3,045	809	3,119
Overseas (or Int'l)	2,375	1,990	1,907	2,555	8,828	2,557	9,010
Total	3,110	2,706	2,696	3,362	11,873	3,367	12,130
Oil	6,393	7,251	7,643	7,314	28,600	6,837	29,044
Other	48,596	48,596	48,596	48,596	194,386	48,596	194,386
Total	58,099	58,553	58,935	59,271	234,859	58,800	235,560
Expense							
Production	3,321	3,412	3,488	3,556	13,777	3,461	13,917
Other	45,071	43,729	44,314	45,120	178,233	45,120	178,283
Ebitda (\$mm)							
Exploration and Production	6,182	6,545	6,850	7,120	26,696	6,742	27,257
Other	3,526	4,868	4,282	3,477	16,152	3,476	16,103
Total Ebitda	9,707	11,413	11,132	10,596	42,848	10,218	43,360
Exploration	125	125	200	200	650	200	725
Deprec., Deplet., & Amort.	2,617	2,617	2,617	2,617	10,468	2,617	10,468
Other non cash	137	137	137	137	548	137	548
Ebit	6,828	8,534	8,178	7,642	31,182	7,264	31,619
Interest	312	312	312	312	1,248	312	1,248
Ebt	6,516	8,222	7,866	7,330	29,934	6,952	30,371
Income Tax	2,281	2,878	2,753	2,566	10,477	2,433	10,630
Net Income (\$mm)							
Exploration and Production	2,746						
Other	1,778						
Unallocated	(289)						
Total	4,235	5,344	5,113	4,765	19,457	4,519	19,741

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The adjusted reserve life index is the sum of developed and half undeveloped reserves divided by next twelve months production. When we last did an industry-wide upward revaluation on March 23, we estimated cash flow multiple equal to 2.5 plus 0.5 times reserve life. That approximates present value assuming constant commodity price near the one-year quotes at that time, about \$35 a barrel for crude oil. Higher commodity prices since then imply higher cash flow and lower multiple by about 10%. Estimated present value provides a measure of appreciation potential should the market move toward that level as we expect.

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Research Methodology/Ratings Description: McDep Associates is an independent research originator focused on oil and gas stocks exclusively. The firm applies the thirty years of experience of its analyst to estimate a present value of the oil and gas resources and other businesses of covered companies. That value is compared with a company's stock market capitalization and debt. Stocks with low market cap and debt relative to present value tend to outperform stocks with high market cap and debt relative to present value. Buy recommendations are expected to deliver a total return better than 7% per year above inflation. Hold recommendations assume the attributes of the underlying business are more than fully reflected in the current price of the stock. Sell recommendations are expected to deliver a negative total return less than 7% per year including the effects of inflation.

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