Rating: Buy S&P 500: 1205

Royal Dutch Petroleum Historic Streamlining

Symbol	RD	Ebitda Next Twelve Months ending 12/31/05 (US\$mm)	26,200
Rating	Buy	North American Natural Gas/Ebitda (%)	4
Price (US\$/sh)	56.21	Natural Gas and Oil Production/Ebitda (%)	61
Pricing Date (intraday)	12/21/04	Adjusted Reserves/Production NTM	8.1
Shares (mm)	2021	EV/Ebitda	5.3
Market Capitalization (US\$mm)	113,600	PV/Ebitda	5.6
Debt (US\$mm)	24,900	Undeveloped Reserves (%)	44
Enterprise Value (EV) (US\$mm)	138,500	Natural Gas and Oil Ebitda (US\$/boe)	19.70
Present Value (PV) (US\$mm)	146,100	Present Value Proven Reserves(US\$/boe)	10.60
Net Present Value (US\$/share)	60	Present Value Proven Reserves(US\$/mcfe)	1.77
Debt/Present Value	0.17	Earnings Next Twelve Months (US\$/sh)	5.64
McDep Ratio - EV/PV	0.95	Price/Earnings Next Twelve Months	10
Dividend Yield (%/year)	4.2	Indicated Annual Dividend (US\$/sh)	2.37

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)** that will be combined with **Shell Transport and Trading (SC)** in about mid 2005 to become Royal Dutch Shell plc. The historic transformation concentrates ownership in a single company with one chief executive and one board of directors. Management appears to have turned controversy over reporting of reserves into the opportunity to create a streamlined mega cap competitor to earn rising oil profits, natural gas profits and oil products profits. Dividends to be paid quarterly rather than semi-annually are expected to beat inflation for a real return of at least 4.2% per year. Stock price has nearly reached estimated net present value of \$60 a share that relates to our standard assumption of constant real oil price of \$35 a barrel. The average futures price for continuous delivery over the next six years is about \$41 a barrel.

Management Did the Right Thing

The historic development combines the 60% owner and the 40% owner of Royal Dutch/Shell Group as a single company. The transformation is a constructive and worthwhile outcome to the unfavorable publicity the group received earlier in 2004 on disclosure of reserves. A change of management at the top resulted in Mr. Jeroen van der Veer becoming the new chief executive. Mr. van der Veer communicated his ideas for Structure and Governance as "Effectiveness + accountability + transparency + simplicity". The concepts have been turned into bold action that no predecessor has been able to achieve for a hundred years.

Royal Dutch shares are to be converted to Royal Dutch Shell A shares and Shell Transport shares to Royal Dutch Shell B shares. The remaining distinction is that the dividend on the A shares will be sourced in the Netherlands for tax purposes and the equal pre-tax dividend on the B shares

will be sourced in the U.K. The relatively stronger recent performance of SC as compared to RD may reflect differences in after-tax dividend yield for some shareholders.

Downstream Leads

Estimated 41% concentration on downstream appears to be the highest among mega cap peers (see table <u>Functional Cash Flow and Present Value</u>). That is not too surprising as it fits traditional perceptions about Shell. The functional area includes both the oil products business and the growing gas and power segment.

As reported reserves have been trimmed so has adjusted reserve life. That also shows up as lower multiple of present value to cash flow. As a result estimated value of oil reserves now appears to be less than downstream. In the current correlation of present value with reserve life for 30 stocks, the company's cash flow multiple for oil and gas appears in line.

Overseas natural gas has growth potential in liquefied natural gas (LNG). The company is a leader in the field along with **ExxonMobil (XOM)** and **Total SA (TOT)**. In addition to the producing profits, an undetermined amount of the cash flow from liquefaction and transportation of LNG is reported in the downstream function.

Royal Dutch/Shell Functional Cash Flow and Present Value

	NTM Ebitda <u>(US\$mm)</u>	Adjusted <u>R/P</u>	PV/ <u>Ebitda</u>	Present Value <u>(US\$mm)</u>	
North American Natural Gas	1,850	5.3	4.3	8,000	3%
Overseas Natural Gas	6,370	11.1	6.2	39,500	16%
Oil	18,610	6.6	5.1	95,000	39%
Downstream	16,840		6.0	101,000	41%
	43,670	8.1	5.6	243,500	100%

Cash Continues to Flow Strongly

Commodity price drives cash flow in our near-term model (see table <u>Next Twelve Months</u> <u>Operating and Financial Estimates</u>). We project constant volume for production operations with seasonal variation for overseas gas. Projected refining/marketing margins reflect futures prices for gasoline and heating oil compared to crude oil.

After a gain in the last quarter of 2004, cash flow would be sustained at a high level in 2005. Because we use futures for our NTM price projection, there is gradual erosion from the initial level. That has been the pattern of futures and of analyst's estimates for the past several years while the reality has been the opposite. Thus, it is likely misleading to conclude that a slight downward projection means that stock price might follow.

Royal Dutch/Shell
Next Twelve Months Operating and Financial Estimates

Natural Gas (mmcfd)
Post
Volume Natural Gas (mmcfd) U.S. (or North America) 1,405 1,327 1,294 1,294 1,333 1,294
Natural Gas (mmcfd)
Natural Gas (mmcfd) U.S. (or North America) 1,405 1,327 1,294 1,294 1,333 1,294 1,294 1,294 1,294 1,294 1,294 Overseas (or Int'l) 8,767 6,446 6,412 8,977 7,672 9,206 6,751 6,137 8,592 7,666 Total 10,172 7,773 7,706 10,271 9,005 10,500 8,045 7,431 9,886 8,966 Oil (mmb) 213 204 206 206 829 201 204 206 206 817 Oil (mbd) 2,342 2,238 2,238 2,238 2,238 2,238 2,238 2,238 2,238 2,238 Total gas & oil (mmb) 367 322 324 363 1,376 359 326 320 357 1,362 Price Natural gas (S/mcf) Henry Hub (S/mmbtu) 5.64 6.10 5.75 7.10 6.15 6.99 6.53 6.61 6.90 6.77 U.S. (or North America) 5.81 6.08 6.18 7.03 6.26 6.92 6.47 6.54 6.83 6.65 Overseas (or Int'l) 3.01 2.99 2.96 4.21 3.35 3.98 3.93 3.86 3.78 3.88 Total 3.40 3.52 3.50 4.57 3.78 4.34 4.34 4.34 4.33 4.18 4.25 Oil (S/bbl) WIT Cushing 35.23 38.34 43.89 48.35 41.45 45.73 45.10 44.36 43.42 44.65 Worldwide 30.33 33.80 38.23 42.11 36.07 39.83 39.28 38.64 37.82 38.88 Total gas & oil (S/bbl) 26.15 29.15 31.95 35.73 30.75 33.79 34.31 34.13 32.42 33.62 NY Harbor 3-2-1 (S/bbl) 6.98 12.78 7.83 5.44 8.26 6.82 8.28 7.29 6.48 7.22 Revenue (Smm) Natural Gas U.S. (or North America) 743 734 736 836 3,049 806 761 779 814 3,155 Overseas (or Int'l) 2,401 1,756 1,746 3,478 9,380 3,300 2,413 2,182 2,990 10,884 Total 3,144 2,490 2,481 4,314 12,430 4,105 3,755 2,960 3,803 14,043 Oil 6,646 6,646 6,884 7,871 8,670 29,889 8,022 8,000 7,955 7,787 31,766 Other 48,491 53,176 60,639 60,639 60,639 60,639 60,639 60,639 60,639 242,557
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Total 58,099 62,549 70,992 73,624 265,264 72,766 71,814 71,554 72,230 288,36 4
Expense
Production 3,427 3,326 4,525 5,052 16,329 4,880 4,690 4,638 4,773 18,98 0
Other 44,965 48,967 56,368 57,020 207,320 56,562 56,125 56,395 56,630 225,71 3
Ebitda (\$mm)
Exploration and Production 6,182 6,048 5,828 7,933 25,990 7,247 6,485 6,277 6,818 26,827
Other 3,526 4,209 4,271 3,619 15,624 4,077 4,514 4,244 4,009 16,84 4
Total Ebitda 9,707 10,257 10,098 11,552 41,614 11,324 10,999 10,522 10,826 43,67 1
Exploration 125 880 304 600 1,909 600 600 600 600 2,400
Deprec., Deplet., & Amort. 2,617 3,130 2,605 2,605 10,957 2,605 2,605 2,605 2,605 10,42 6
Other non cash 137 159 97 100 493 100 100 100 100 400
Ebit 6,828 6,088 7,092 8,247 28,255 8,019 7,694 7,217 7,521 30,45 1
Interest 312 307 304 304 1,227 304 304 304 304 1,216
Ebt 6,516 5,781 6,788 7,943 27,028 7,715 7,390 6,913 7,217 29,23 5
Income Tax 2,281 2,023 2,376 2,780 9,460 2,700 2,586 2,419 2,526 10,23 2
Net Income (Smm)
Exploration and Production 2,746 1,935 2,405
Other 1,778 2,255 2,367
Unallocated (289) (433) (359)
Total 4,235 3,757 4,413 5,163 17,568 5,015 4,803 4,493 4,691 19,003
Shares (millions) - RD 2,033 2,031 2,021 2,021 2,026 2,021 2,021 2,021 2,021 2,021 2,021 2,021
Per share (\$) - RD 1.25 1.11 1.31 1.53 5.20 1.49 1.43 1.33 1.39 5.6 4
Shares (millions) - SC 1,587 1,584 1,578 1,578 1,579 1,578 1,578 1,578 1,578 1,578 1,578
Per share (\$) - SC 1.07 0.95 1.12 1.31 4.45 1.27 1.22 1.14 1.19 4.82
Ebitda Margin (E&P) 64% 65% 56% 61% 61% 60% 58% 58% 59% 59% 59%
Tax Rate 35% 35% 35% 35% 35% 35% 35% 35% 35% 35%

Reserves Restatement Turned into Opportunity

There are further implications beyond the simplified RD/SC structure. It may be that new management is wiping the slate clean for a fresh start. Reserves may now be stated more conservatively than for competitors. We know that Securities and Exchange Commission standards understate likely ultimate production especially when rigidly applied. The typical oil

field would probably not be developed if the capital program had to be justified by SEC reserves. As a result from a more conservative base, RD/SC may be able to report performance that looks better than would otherwise be the case.

At the other extreme, the Shell experience calls attention to other potential overstatements. The Middle Eastern producing countries come to mind. Russia is another case. Widely quoted reserves for Russian companies conform typically to the Society of Petroleum Engineers standard. We saw that **ConocoPhillips (COP)** cut **Lukoil (LUKOY)**'s reserves by more than a half to approximate the SEC standard.

Obviously there is still a lot of oil in the Middle East and Russia. That has always been the case. What is different now is that there is no known spare capacity of light oil. The pace of investment needed to expand capacity is likely to lag market requirements just as capital spending is inherently cyclical. The question is more how rapidly will consumers have access to growing volumes. For the next several years it looks like a seller's market. The producers must spend large sums. Inevitably there are delays and some producers may not see the situation as urgently.

Competitive Value among Mega Caps

Like its mega cap peers, RD/SC is well positioned to supply more light, clean products. The overseas natural gas business is growing faster than oil. Shell's oil refineries are well-equipped to transform more readily available heavy, sour oil into light, sweet products. The valuation distinctions among mega caps are slight (see table <u>Rank by McDep Ratio</u>).

			Price			Net		
			(\$/sh)		Market	Present	Debt/	
	Symbo	<i>l</i> /	21-Dec	Shares	Cap	Value	Present	McDep
		Rating	2004	(mm)	(\$mm)	(\$/sh)	Value	Ratio
Mega Cap								
Exxon Mobil Corporation	XOM	B3	51.69	6,508	336,000	50.00	0.07	1.03
Shell Transport and Trading Co. plc	SC	B3	50.44	1,587	80,000	51.00	0.17	0.99
BP plc	BP	B3	59.03	3,614	213,000	60.00	0.13	0.99
Total S.A.	TOT	В3	107.11	1,228	132,000	113.00	0.17	0.96
Royal Dutch Petroleum	RD	B1	56.21	2,021	114,000	60.00	0.17	0.95
ChevronTexaco Corporation	CVX	B1	52.78	2,126	112,000	62.50	0.13	0.86

B1 = Buy full unlevered position, B2 = Buy half unlevered position, B3 = Alternative buy McDep Ratio = \mathbf{M} arket \mathbf{c} ap and \mathbf{D} ebt to \mathbf{p} resent value of oil and gas and other businesses

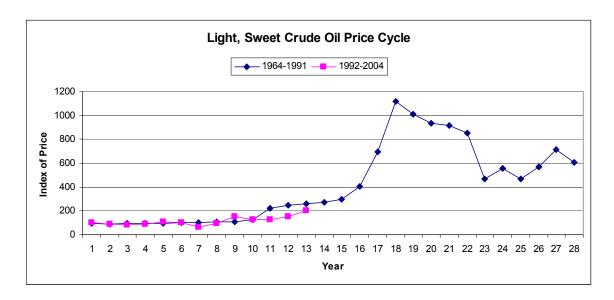
Source: www.mcdep.com

Buy Oil and Gas Producers at Mid Decade

Three to five-fold gain potential for oil and gas price over the next 5 to 13 years justifies investment in recommended oil and gas producers including RD/SC, in our opinion. Supporting improving prospects, the average futures prices of oil and gas for continuous delivery over the next six years are in a multi-year uptrend defined by the current quotes above the 40-week average. The current benchmark oil average futures price for the next six years is about \$41 a barrel. That is higher than our estimate that current stock price of RD/SC reflects a constant real oil price approaching \$35 a barrel.

Three to Five in Five to Thirteen

Taking the experience of past trends in oil price we see the potential for further gains beyond what most investors contemplate. Keying on the twice-in-a-lifetime bear market bottoms in 1974 and 2002, we note a preceding ten-year period of relatively stable oil price. Thus, we plot a 28-year period of oil price indexed to the average for the first ten years (see chart Light, Sweet Crude Oil Price Cycle). The historical cycle runs from 1964 to 1991. We superimpose on that a new cycle starting in 1992 and continue it through the last data point, 2004, year 13. There are similarities between 2004 and 1976 as well as differences. Undoubtedly, the current cycle will play out differently. The main point that we think is valid is that there may be surprising upside in oil price after 2004 as there was after 1976.



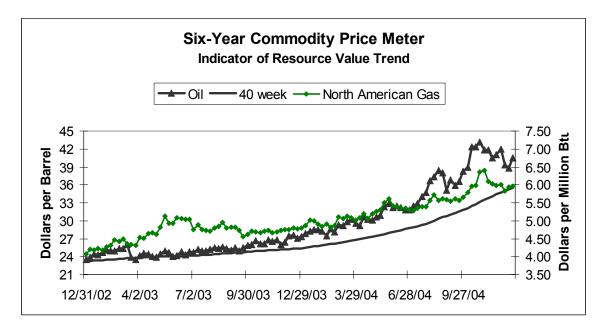
Source: www.eia.doe.gov, www.mcdep.com

Futures Trend Up

Futures traders are expressing increasing conviction that the oil price trend is up. Tracking the average futures price for continuous delivery over the next six-years we see that the current quote is above the 40-week average (see chart Six-Year Commodity Price Meter). A common presumption is that the trend is likely to continue until the current quote falls below the 40-week average. We believe the uptrend will continue, but cannot rule out occasional interruptions.

Kurt H. Wulff, CFA

December 22, 2004



Source: www.nymex.com, www.mcdep.com updated

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