

October 28, 2010

rating: buy s&p 500: 1182

PetroChina (PTR) Raise NPV to \$170 from \$150 on Natural Gas and Downstream

Symbol	PTR	Ebitda Next Twelve Months ending 12/31/11 (US\$mm)	52,000		
Rating	Buy	North American Natural Gas/Ebitda (%)	0		
Price (US\$/sh)	122.83	Natural Gas and Oil Production/Ebitda (%)	77		
Pricing Date	10/27/10	Adjusted Reserves/Production NTM	13.6		
Shares (mm)	1830	EV/Ebitda	5.2		
Market Capitalization (US\$mm)	225,000	PV/Ebitda	6.9		
Debt (US\$mm)	46,000	Undeveloped Reserves (%)	40		
Enterprise Value (EV) (US\$mm)	271,000	Natural Gas and Oil Ebitda (US\$/boe)	31.01		
Present Value (PV) (US\$mm)	357,000	Present Value Proven Reserves(US\$/boe)	12.58		
Net Present Value (US\$/share)	170	Present Value Proven Reserves(US\$/mcfe)	2.10		
Debt/Present Value	0.13	Earnings Next Twelve Months (US\$/sh)	12.19		
McDep Ratio - EV/PV	0.76	Price/Earnings Next Twelve Months	10		
Dividend Yield (%/year)	vidend Yield (%/year) 3.5 Indicated Annual Dividend (US\$/sh)				
Note: Estimated cash flow and	earnings tied to o	ne-year futures prices for oil.			
Reported results may va	ry widely from esti	imates. Estimated present value per share revised only infrequ	ently.		
The Peoples Republic of	China holds 86% o	of the outstanding shares.			
Estimated present value	presumes a long-to	erm price for oil of US\$75 a barrel.			
For historical analysis of	PTR since 2001 se	ee www.mcdep.com/3ptr.htm			

Summary and Recommendation

Buy-recommended **PetroChina** (**PTR**) offers unlevered appreciation potential of 32% to a McDep Ratio of 1.0 where stock price would equal Net Present Value (NPV) of \$170 a share. On the strength of rising natural gas price and refined product margin, NPV is up from \$150. Third quarter results released on October 27 verify a long-awaited upward adjustment of government-controlled natural gas price along with better profit margin on price-controlled refined products (see table <u>Quarterly Operating and Financial Estimates</u>). Third quarter earnings of 34,700 million renminbi (RMB) prompt us to raise our estimate of cash flow for the next twelve months (see table <u>Half-Yearly Financial Results</u>). Because the company reports earnings by segment only on a half-yearly basis we surmise that the added strength comes from other (downstream) businesses that include refining/marketing, petrochemicals and natural gas transmission/distribution. Higher cash flow boosts the value of natural gas and downstream to 15% and 22% of NPV (see table <u>Functional Cash Flow and Present Value</u>). PetroChina is demonstrating solid growth in investment value as the most important oil and gas company in the country whose rapid growth has made it the world's largest energy consumer. Scoring a total return of 28% a year for the past nine years, the stock can continue to be rewarding, we believe.

Kurt H. Wulff, CFA



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				ompany Lim					
	(Quarterly	Operating a	nd Financia	d Estimates	3			
									Twelve
	Q3	Q2	Q3	Q4E	Year	Q1E	Q2E	2	Months E
	9/30/09	6/30/10	9/30/09	12/31/10	2010E	3/31/11	6/30/11	9/30/11	12/31/11
Volume									
Natural gas (bcf)	504	540	535	646	2,330	671	594	588	2,563
Natural Gas (mmcfd)	5,478	5,935	5,810	7,018	6,384	7,454	6,529	6,391	7,023
Days	92	91	92	92	365	90	91	92	365
Oil (mmb)	214	215	215	215	854	210	212	215	852
Oil (mbd)	2,326	2,362	2,334	2,334	2,341	2,334	2,334	2,334	2,334
Total gas & oil (mmb)	298	305	304	322	1,243	322	311	313	1,279
Total gas & oil (mbd))	3,239	3,351	3,302	3,503	3,405	3,576	3,422	3,399	3,504
Price									
Natural gas (\$/mcf)									
Henry Hub (\$/mmbtu)	3.39	4.09	4.38	3.62	4.35	3.96	3.95	4.11	4.12
Company	3.39	3.73	4.27	4.27	3.89	4.27	4.27	4.27	4.27
Oil (\$/bbl)									
WTI Cushing	68.22	77.85	76.08	83.12	78.93	85.14	86.32	87.19	86.63
Company	61.92	74.74	70.49	77.02	73.08	78.89	79.98	80.79	80.28
Total gas & oil (\$/bbl)	50.20	59.28	57.34	59.86	57.53	60.39	62.70	63.51	62.03
NY Harbor 3-2-1 (\$/bbl)	9.45	12.13	8.31	7.69	8.82	7.53	10.16	9.72	8.65
Revenue (\$mm)	7.15	12.13	0.51	7.07	0.02	7.55	10.10	2.72	0.02
Natural Gas	1,710	2,015	2,284	2,760	9,060	2,867	2,539	2,513	10,955
Oil	13,251	16,061	15,135	16,535	62,440	16,569	16,985	17,345	68,379
Total	14,961	18,076	17,419	19,295	71,500	19,436	19,524	19,858	79,334
RMB/\$US	6.83	6.82	6.77	6.69	6.77	6.69	6.69	6.69	6.69
Total Upstream (RMB)	102,197	123,278	117,929	128,997	484,281	129,940	130,527	132,760	530,391
Other (Downstream)	165,545	242,724	245,373	202,069	404,201	129,940	130,327	132,700	330,391
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Total Revenue	267,742	366,002	363,302	331,066					
Expense	194,560	285,923	288,399	242,506					
Ebitda (RMB)									
Exploration and Production									
Other	72.102	00.070	74.002	00.500					
Total	73,182	80,079	74,903	88,560					
Exploration	5,161	8,555	2,960	12,849					
Deprec., Deplet., & Amort.	24,774	28,406	26,788	29,064					
Other non cash	71	(485)	391	(391)					
Ebit	43,176	43,603	44,764	47,038					
Interest	1,046	1,157	1,370	1,855					
Ebt	42,130	42,446	43,394	45,183					
Income Tax	11,283	9,058	8,694	11,679					
Net Income (RMB)									
Exploration and Production									
Other									
Unallocated									
Total	30,847	33,388	34,700	33,504					
Shares (millions)	1,830	1,830	1,830	1,830					
Earnings per share (RMB)	17	18	19	18					
Ebitda Margin (E&P)									
Tax Rate	27%	21%	20%	26%					



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			etroChina Co						
Half-Yearly Financial Results									
									Twelve
	H1	H2	Year	H1	H2E	Year	H1E	H2E	Months E
	6/30/09	12/31/09	2009	6/30/10	12/31/10	2010E	6/30/11	12/31/11	12/31/11
NY Harbor 3-2-1 (\$/bbl)	9.33	7.34	8.34	9.64	8.00	8.82	8.85	8.46	8.65
Revenue (RMB)									
Upstream (from quarterly table)	144,760	217,742	362,503	237,355	246,926	484,281	260,467	269,924	530,391
Downstream Value Added	270,517	386,256	656,772	447,442	447,442	894,885	447,442	447,442	894,885
Total	415,277	603,998	1,019,275	684,797	694,368	1,379,165	707,909	717,366	1,425,275
Expense	298,044	468,349	766,393	526,521	530,905	1,057,426	537,676	542,404	1,080,080
Ebitda (RMB)									
Exploration and Production	69,304	110,615	179,920	114,746	123,463	238,209	130,233	134,962	265,195
Other	47,929	25,034	72,962	43,530	40,000	83,530	40,000	40,000	80,000
Total	117,233	135,649	252,882	158,276	163,463	321,739	170,233	174,962	345,195
Exploration	11,107	8,291	19,398	15,809	15,809	31,618	15,809	15,809	31,618
Deprec., Deplet., & Amort.	42,859	49,400	92,259	55,852	55,852	111,704	55,852	55,852	111,704
Other non cash									
Ebit	63,267	77,958	141,225	86,615	91,802	178,417	98,572	103,301	201,873
Interest	2,047	3,225	5,272	2,525	3,225	5,750	2,525	3,225	5,750
Ebt	61,220	74,733	135,953	84,090	88,577	172,667	96,047	100,076	196,123
Income Tax	11,810	21,663	33,473	18,210	20,373	38,583	24,012	23,017	47,029
Net Income (RMB)									
Exploration and Production	37,640	67,379	105,019	73,372					
Other	34,352	4,073	38,425	24,204					
Unallocated	(22,582)	(18,382)	(40,964)	(31,696)					
Total	49,410	53,070	102,480	65,880	68,204	134,084	72,036	77,058	149,094
Shares (millions)	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830
Earnings per share (RMB)	27	29	56	36	37	73	39	42	81
Ebitda Margin (E&P)	48%	51%	50%	48%	50%	49%	50%	50%	50%
Tax Rate	19%	29%	25%	22%	23%	22%	25%	23%	24%

PetroChina								
Functional Cash Flow and Present Value								
				Present				
Λ	Adjusted	PV/	Value					
	(US\$mm)	<u>R/P</u>	<u>Ebitda</u>	(US\$mm)				
Natural Gas	5,500	18.4	10.0	55,000	15%			
Oil	34,100	11.2	6.5	222,000	62%			
Downstream	12,000		6.7	80,000	22%			
	51,600	13.6	6.9	357,000	100%			
Debt (US\$mm)					46,000			
Net Present Value (US\$mm)					311,000			
Shares (mm)					1,830			
Net Present Value - Standard Estimate (US\$/sh)								
NPV Approximation by Cash Flow Multiple Depending on Reserve Life (US\$/sh)								



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