Overlooked Oil in PetroChina Stock

Symbol	PTR	Ebitda Next Twelve Months ending 6/30/12 (US\$mm)	61,000			
Rating	Buy	North American Natural Gas/Ebitda (%)	0			
Price (US\$/sh)	138.62	Natural Gas and Oil Production/Ebitda (%)	77			
Pricing Date	3/21/11	Adjusted Reserves/Production NTM	13.6			
Shares (mm)	1830	EV/Ebitda	5.3			
Market Capitalization (US\$mm)	254,000	PV/Ebitda	7.5			
Debt (US\$mm)	68,000	Undeveloped Reserves (%)	42			
Enterprise Value (EV) (US\$mm)	322,000	Natural Gas and Oil Ebitda (US\$/boe)	36.32			
Present Value (PV) (US\$mm)	452,000	Present Value Proven Reserves(US\$/boe)	15.76			
Net Present Value (US\$/share)	rsent Value (US\$/share) 210 Present Value Proven Reserves(US\$/mcfe)					
Debt/Present Value	0.15	Earnings Next Twelve Months (US\$/sh)	16.53			
McDep Ratio - EV/PV	0.71	Price/Earnings Next Twelve Months	8			
Dividend Yield (%/year)	3.8	Indicated Annual Dividend (US\$/sh)	5.24			
Note: Estimated cash flow and	l earnings tied to	one-year futures prices for oil.				
Reported results may va	ry widely from es	timates. Estimated present value per share revised only infreq	uently.			
The Peoples Republic of	China holds 86%	of the outstanding shares.				
Estimated present value	presumes a long-	term price for oil of US\$100 a barrel.				
For historical analysis of	f PTR since 2001 s	see www.mcdep.com/3ptr.htm				

Summary and Recommendation

Buy-recommended **PetroChina (PTR)** offers unlevered appreciation potential of 41% to a McDep Ratio of 1.0 where stock price would equal Net Present Value (NPV) of \$210 a share. Flashing a sign of oil overlooked by investors, PetroChina's McDep Ratio is low and its stock has gained less than global peers compared to its 200-day average (see Tables 1-4 on pages 2-5). Meanwhile final results for 2010 reported on March 17 met our estimates from six months ago for cash flow (see tables Half-Yearly Financial Results on page 6 and Quarterly Operating and Financial Estimates on page 7). When cash flow for the next twelve months is compared to NPV, the unlevered multiple (PV/Ebitda) is a modest 7.5 times (see table Functional Cash Flow and Present Value on page 6). Though well above stock price, NPV remains understated as a result of government price and tax policies. PTR gives up some profit because of a windfall tax on domestic oil production. To make up for any loss in production caused by the windfall tax, China imports more and puts pressure on world oil price thereby making PTR's overseas production more profitable. Similarly, price controls on domestic natural gas make overseas natural gas more profitable. PTR made timely deals in recent months to produce natural gas in Canada with buy-recommended Encana (ECA) and in Australia with buy-recommended Royal Dutch Shell (**RDS**). PTR also gives up profit on refined products because price controls react slowly to rising crude oil price. Some lost downstream profit is recovered when crude oil price declines. In any event, economic growth and prosperity fueled by energy is likely to mean rising profits for PetroChina.

Kurt H. Wulff, CFA



Syn B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median					Energy P										
Syn B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median	eograp	hi	c Dom	icile an	d Rucino										
B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median				Geographic Domicile and Business Segments											
B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median						_			(0.4)						
B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median							ıt Value by	Segment	(%)						
B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median			Price			North	Rest								
B = Buy, CE U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median			(US\$/sh)	EV/	Enterprise	Amer.	of World		_						
U.S. Integrated Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median	mbol/Rati		21-Mar	Market	Value	Natural	Natural		Down-	McDep					
Marathon Oil Corporation Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median	B (see bel	ow)	2011	Сар	(\$mm)	Gas	Gas	Prod'n	stream	Ratio					
Exxon Mobil Corporation Chevron Corporation ConocoPhillips Total or Median		_				_	_								
Chevron Corporation ConocoPhillips Total or Median	MRO		51.84		48,000	7	3	69	22	0.81					
ConocoPhillips Total or Median	XOM	В	82.84		484,000	8	17	57	18	0.80					
Total or Median	CVX		105.19		231,000	3	10	76	11	0.74					
	COP	В	77.55	1.35	148,000	14	9	64	14	0.72					
					911,000			67		0.77					
Europe	DDCZZ		04.00	1.15	04.000		25	4.0	20	0.05					
BG Group	BRGXF	ъ	24.20		94,800		26	46	28	0.97					
Royal Dutch Shell plc	RDS-A	В	70.87	1.31	286,000	3	20	55	21	0.79					
Statoil ASA (33%)	STO	В	27.83	1.44	42,100	-	36	64	- 10	0.71					
BP plc	BP	_	45.80	1.63	236,000	5	9	68	18	0.61					
Total S.A.	TOT	В	59.11	1.29	171,000		17	67	16	0.59					
Total or Median					830,000			64		0.71					
Brazil/Russia/Australia/China	~~~														
CNOOC Limited (34%)	CEO	_	231.22	1.04	36,700		8	92	-	1.05					
	WOPEY		46.25	1.17	42,000		67	33	-	0.95					
PetroChina Company Ltd (14%)	PTR		138.62		45,000		14	68	18	0.71					
Petrobras	PBR		39.54		314,000		2	83	15	0.68					
Gazprom (50%)	OGZPY		31.61	1.21	110,000		81	19	-	0.61					
Lukoil Oil Company	LUKOY	В	70.97	1.10	61,300			67	33	0.50					
Total or Median					609,000			67		0.70					
U.S. Independent			=0.00		-0.000										
Anadarko Petroleum Corp.	APC		79.98		60,800	37		60	3	1.02					
Chesapeake Energy Corp.	CHK		33.75	1.64	41,300	83		17	-	1.01					
Southwestern Energy Company	SWN	_	41.61	1.10	15,900	100			-	0.99					
EOG Resources, Inc.	EOG		111.40	1.20	33,600	47	4	49	-	0.88					
Devon Energy Corporation	DVN		92.69	1.10	44,200	55		45	-	0.84					
Occidental Petroleum Corp.	OXY	В	100.98	1.06	87,200	8	1	86	6	0.83					
Total or Median					283,000			47		0.93					
Canada															
Penn West Exploration	PWE		27.59		16,000	17		83	-	0.92					
Imperial Oil Limited (30%)	IMO		51.77	1.09	14,400	3		86	11	0.85					
Cenovus Energy Inc.	CVE	В	38.31	1.25	36,100	18		77	5	0.82					
Canadian Natural Resources Lin	CNQ		49.76		65,900	13		87	-	0.78					
Suncor Energy	SU		45.55	1.22	87,800	4		88	9	0.75					
EnCana Corporation	ECA		34.73		35,300	93		7	-	0.75					
	COSWF	В	32.65	1.10	17,300			100	_	0.65					
Total or Median					273,000			87		0.78					
Composite					2,906,000	9	14	64	14	0.74					



Symbol/Ra	ent V	Price (US\$/sh) 21-Mar		Portfolio ep Ratio	Net		
Symbol/Ro CB (see b	ating	Price (US\$/sh) 21-Mar	nd McD	•	Net		
CB (see b		(US\$/sh) 21-Mar			Net		
CB (see b		(US\$/sh) 21-Mar			Net		
CB (see b		21-Mar			1,00		
CB (see b				Market	Present	Debt/	
	elow)		Shares	Cap	Value	Present	МсДер
MBO		2011	(mm)	(US\$mm)	(US\$/sh)	Value	Ratio
MDO							
MRO	В	51.84	713	36,960	68.00	0.19	0.81
XOM	В	82.84	5,031	417,000	107.00	0.11	0.80
CVX	В	105.19	2,009	211,000	146.00	0.06	0.74
COP	В	77.55	1,414	110,000	119.00	0.19	0.72
						0.15	0.77
				,			
BRGXF		24.20	3,407	82,500	25.00	0.13	0.97
RDS-A	В	70.87		218,000	96.00	0.19	0.79
STO	В				44.00	0.22	0.7
BP				-	93.00		0.6
TOT	В						0.59
_			, -				0.71
CEO		231.22	152	35,200	220.00	0.04	1.05
	В						0.95
							0.7
							0.68
							0.6
				-			0.50
Lener		70.57	701		150.00		0.70
				312,000		0.11	0.70
APC		79.98	498	39.800	78.00	0.35	1.02
							1.01
		41.61	349		42.00	0.09	0.99
	В						0.88
	В				112.00		0.84
OXY	В	100.98	814				0.83
-							0.93
				. ,		=	
PWE		27.59	440	12.200	31.00	0.22	0.92
	В						0.85
							0.82
							0.78
	В						0.7
							0.75
							0.6
200111		32.03	707		32.00		0.78
in downtr	end co	ompared to	200-day ay			0.17	0.70
			-		,		
	BRGXF RDS-A STO BP TOT CEO WOPEY PTR PBR OGZPY LUKOY APC CHK SWN EOG DVN OXY PWE IMO CVE CNQ SU ECA COSWF in downtr to presen	BRGXF RDS-A B STO B BP TOT B CEO WOPEY B PTR B PBR B OGZPY B LUKOY B APC CHK SWN EOG B DVN B OXY B EOG B CVE B CNQ SU B ECA B COSWF B in downtrend contractions of the present value of the present value.	COP B 77.55 BRGXF 24.20 RDS-A B 70.87 STO B 27.83 BP 45.80 TOT B 59.11 CEO 231.22 WOPEY B 46.25 PTR B 138.62 PBR B 39.54 OGZPY B 31.61 LUKOY B 70.97 APC 79.98 CHK 33.75 SWN 41.61 EOG B 111.40 DVN B 92.69 OXY B 100.98 PWE 27.59 IMO B 51.77 CVE B 38.31 CNQ 49.76 SU B 45.55 ECA B 34.73 COSWF B 32.65 in downtrend compared to to present value of oil and state of to present value of oil and state of the present value of oil and	COP B 77.55 1,414 BRGXF 24.20 3,407 RDS-A B 70.87 3,074 STO B 27.83 1,050 BP 45.80 3,168 TOT B 59.11 2,248 CEO 231.22 152 WOPEY B 46.25 774 PTR B 138.62 256 PBR B 39.54 6,544 OGZPY B 31.61 2,875 LUKOY B 70.97 781 APC 79.98 498 CHK 33.75 746 SWN 41.61 349 EOG B 111.40 251 DVN B 92.69 434 OXY B 100.98 814 PWE 27.59 440 IMO B 51.77 256 CVE B 38.31 753 CNQ 49.76 1,089 SU B 45.55 1,575 ECA B 34.73 736 COSWF B 32.65 484 in downtrend compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oil and gas and other compared to 200-day average to present value of oi	COP B 77.55 1,414 110,000 775,000 BRGXF 24.20 3,407 82,500 RDS-A B 70.87 3,074 218,000 STO B 27.83 1,050 29,200 BP 45.80 3,168 145,000 608,000 CEO 231.22 152 35,200 WOPEY B 46.25 774 35,800 PTR B 138.62 256 35,500 PBR B 39.54 6,544 258,800 OGZPY B 31.61 2,875 90,900 LUKOY B 70.97 781 55,400 512,000 APC 79.98 498 39,800 CHK 33.75 746 25,200 SWN 41.61 349 14,500 EOG B 111.40 251 28,000 DVN B 92.69 434 40,200 OXY B 100.98 814 82,200 PWE 27.59 440 12,200 IMO B 51.77 256 13,300 CVE B 38.31 753 28,900 CNQ 49.76 1,089 54,200 SU B 45.55 1,575 71,700 ECA B 34.73 736 25,600 COSWF B 32.65 484 15,800 222,000 in downtrend compared to 200-day average.	COP B 77.55 1,414 110,000 119.00 BRGXF 24.20 3,407 82,500 25.00 RDS-A B 70.87 3,074 218,000 96.00 STO B 27.83 1,050 29,200 44.00 BP 45.80 3,168 145,000 93.00 TOT B 59.11 2,248 133,000 111.00 CEO 231.22 152 35,200 220.00 WOPEY B 46.25 774 35,800 49.00 PTR B 138.62 256 35,500 210.00 PBR B 39.54 6,544 258,800 62.00 OGZPY B 31.61 2,875 90,900 56.00 LUKOY B 70.97 781 55,400 150.00 APC 79.98 498 39,800 78.00 CHK 33.75 746 25,200 33.00 SWN 41.61 349 14,500 42.00 EOG B 111.40 251 28,000 130.00 DVN B 92.69 434 40,200 112.00 OXY B 100.98 814 82,200 123.00 PWE 27.59 440 12,200 31.00 PWE 27.59 440 12,200 31.00 IMO B 51.77 256 13,300 62.00 CNQ 49.76 1,089 54,200 67.00 SU B 38.31 753 28,900 49.00 CNQ 49.76 1,089 54,200 67.00 SU B 45.55 1,575 71,700 64.00 ECA B 34.73 736 25,600 51.00 COSWF B 32.65 484 15,800 52.00 in downtrend compared to 200-day average.	COP B 77.55 1,414 110,000 119.00 0.19 BRGXF 24.20 3,407 82,500 25.00 0.13 RDS-A B 70.87 3,074 218,000 96.00 0.19 STO B 27.83 1,050 29,200 44.00 0.22 BP 45.80 3,168 145,000 93.00 0.24 TOT B 59.11 2,248 133,000 111.00 0.13 CEO 231.22 152 35,200 220.00 0.04 WOPEY B 46.25 774 35,800 49.00 0.14 PTR B 138.62 256 35,500 210.00 0.15 PBR B 39.54 6,544 258,800 62.00 0.12 OGZPY B 31.61 2,875 90,900 56.00 0.10 LUKOY B 70.97 781 55,400 150.00 0.35



			Table 3					
McD	ep Lai	rge	Cap Eı	nergy P	ortfolio			
					ion Yield			
, 43-43-5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
			Price	Adjustd				Divd o
			(US\$/sh)	Resrvs/	PV/	EV/		Distri
S	ymbol/Rat	ing	21-Mar	Prod	Ebitda	Ebitda	P/E	NTI
B = Buy, C			2011	NTM	NTM	NTM	NTM	(%
U.S. Integrated	NOM.	ъ	02.04	10.5	7.0		0	2
Exxon Mobil Corporation	XOM	В	82.84	12.5	7.0	5.6	9	2.
ConocoPhillips	COP	В	77.55	10.5	7.3	5.2	10	3.
Marathon Oil Corporation	MRO	В	51.84	8.6	6.0	4.8	10	1.
Chevron Corporation	CVX	В	105.19	9.0	6.1	4.5	9	2.
Total or Median				9.7	6.5	5.0	10	2.4
Europe DC Crown rdo	DDCVE		24.20	12.0	9.9	9.6	16	0
BG Group plc	BRGXF	D	24.20	13.8	8.8	8.6	16	0.
Royal Dutch Shell plc	RDS-A	В	70.87	8.4	6.3	5.0	8	4.
BP plc	BP	_	45.80	10.4	7.1	4.3	6	3.
Statoil ASA (33%)	STO	В	27.83	6.7	5.9	4.2	8	4.
Total S.A.	TOT	В	59.11	9.4	6.6	3.9	9	5.
Total or Median				9.4	6.6	4.3	8	4.0
Brazil/Russia/Australia/China		_						
Woodside Petroleum Ltd.	WOPEY	В	46.25	15.1	10.4	9.9	16	2.
Petrobras	PBR	В	39.54	13.3	10.3	7.0	12	3.
PetroChina Company Ltd (14%)	PTR	В	138.62	13.6	7.5	5.3	8	3.
CNOOC Limited (34%)	CEO		231.22	5.6	5.1	5.3	9	2.
Gazprom (50%)	OGZPY	В	31.61	30.2	7.0	4.2	6	1.
Lukoil Oil Company	LUKOY	В	70.97	15.9	6.1	3.0	5	2.
Total or Median				14.3	7.2	5.3	9	2
U.S. Independent								
Chesapeake Energy Corp.	CHK		33.75	12.3	11.9	12.0	23	0.
Southwestern Energy Company	SWN		41.61	8.3	11.8	11.7	25	
Anadarko Petroleum Corp.	APC		79.98	8.8	8.0	8.1		0.
Devon Energy Corporation	DVN	В	92.69	10.9	9.3	7.8	15	0.
EOG Resources, Inc.	EOG	В	111.40	8.7	7.7	6.8	23	0.
Occidental Petroleum Corp.	OXY	В	100.98	10.9	7.7	6.4	13	1.
Total or Median				9.8	8.7	8.0	23	0.0
Canada								
EnCana Corporation	ECA	В	34.73	12.5	13.9	10.4	30	2.
Cenovus Energy Inc.	CVE	В	38.31	21.0	12.0	9.8	26	2.
Imperial Oil Limited (30%)	IMO	В	51.77	21.0	11.2	9.5	16	0.
Penn West Exploration	PWE		27.59	8.8	9.8	9.0	32	4.
Canadian Natural Resources Limited	CNQ		49.76	21.0	11.1	8.7	21	0.
Suncor Energy	SU	В	45.55	21.1	9.9	7.5	15	0.
Canadian Oil Sands Limited	COSWF	В	32.65	29.0	10.7	6.9	12	2.
Total or Median				21.0	11.1	9.0	21	2.
CB=Contrarian Buy, Stock Price may be i	n downtre	nd c	ompared to	200-day av				
EV = Enterprise Value = Market Cap and						ciation		
and amortization; NTM = Next Twelve M								
Earnings; PV = Present Value of oil and g								



		_	Table	-				
N	AcDep	Laı	ge Cap l	Energy I	Portfolio)		
Rank	by Ent	erp	rise Valu	e to 200	Day Av	erage		
			ni.					
			Price		F., (171/		
	C1 1		(\$/sh)	52117	Enterprise		200 D	M . D
	Symbol		21-Mar	52Wk	52Wk	50 Day	200 Day	McDep
IIC Internated	K	atin	2011	High	Low	Avg.	Avg.	Ratio
U.S. Integrated	MDO	В	51.84	0.00	1.51	1.00	1.20	0.01
Marathon Oil Corporation	MRO			0.99	1.51	1.09	1.29	0.81
Chevron Corporation	CVX	В	105.19	1.00	1.50	1.07	1.22	0.74
ConocoPhillips	COP	В	77.55	0.97	1.39	1.05	1.18	0.72
Exxon Mobil Corporation	XOM	В	82.84	0.95	1.39	1.01	1.17	0.80
Median				0.98	1.45	1.06	1.20	0.77
Europe P.C. Croup plo	DDCVE		121.00	0.00	1 50	1.05	1 22	0.07
BG Group plc	BRGXF	D	121.00	0.98	1.58	1.05	1.22	0.97
Statoil ASA (33%)	STO	В	27.83	1.00	1.31	1.07	1.17	0.71
Royal Dutch Shell plc	RDS-A	В	70.87	0.97	1.30	1.01	1.11	0.79
Total S.A.	TOT	В	59.11	0.96	1.27	1.01	1.09	0.59
BP plc	BP		45.80	0.83	1.34	0.98	1.07	0.61
Median				0.97	1.33	1.03	1.14	0.74
Brazil/Russia/Australia/China	O CERTY	_	21.51	1.00		1.10	4.05	0.51
Gazprom (50%)	OGZPY	В	31.61	1.00	1.56	1.10	1.27	0.61
Lukoil Oil Company	LUKOY	В	70.97	0.94	1.51	1.06	1.19	0.50
CNOOC Limited (34%)	CEO	_	231.22	0.92	1.53	1.01	1.13	1.05
Woodside Petroleum Ltd.	WOPEY	В	46.25	0.99	1.33	1.07	1.11	0.95
PetroChina Company Ltd (14%)	PTR	В	138.62	0.97	1.29	1.01	1.10	0.71
Petrobras	PBR	В	39.54	0.87	1.21	1.03	1.08	0.68
Median				0.95	1.42	1.05	1.12	0.70
U.S. Independent								
Devon Energy Corporation	DVN	В	92.69	1.00	1.50	1.06	1.26	0.84
Chesapeake Energy Corp.	CHK		33.75	0.96	1.34	1.06	1.20	1.01
Anadarko Petroleum Corp.	APC		79.98	0.98	1.59	1.02	1.18	1.02
Occidental Petroleum Corp.	OXY	В	100.98	0.94	1.37	1.02	1.15	0.83
Southwestern Energy Company	SWN		48.11	0.93	1.32	1.08	1.12	0.99
EOG Resources, Inc.	EOG	В	111.40	0.97	1.24	1.05	1.11	0.88
Median				0.97	1.36	1.05	1.17	0.93
Canada								
Imperial Oil Limited (30%)	IMO	В	51.77	0.94	1.40	1.10	1.25	0.85
Suncor Energy	SU	В	45.55	0.95	1.47	1.07	1.22	0.75
Canadian Natural Resources	CNQ		49.76	0.96	1.49	1.08	1.22	0.78
Cenovus Energy Inc.	CVE	В	38.31	0.96	1.43	1.07	1.20	0.82
Canadian Oil Sands Limited	COSWF	В	32.73	0.94	1.39	1.11	1.20	0.65
Penn West Exploration	PWE		79.98	0.97	1.47	1.03	1.17	0.92
EnCana Corporation	ECA	В	34.73	0.99	1.22	1.07	1.11	0.75
Median CB=Contrarian Buy, Stock Price n				0.96	1.43	1.07	1.20	0.78



		P	etroChina (Company Lim	ited				
		Н	alf-Yearly l	inancial Res	ults				
									Twelve
	H2	Н1	Н2	Year	H1E	H2E	Year	H1E	Months E
	12/31/09	6/30/10	12/31/10	2010	6/30/11	12/31/11	2011E	6/30/12	6/30/12
NY Harbor 3-2-1 (\$/bbl)	7.34	9.64	9.73	9.68	20.80	19.27	20.03	20.53	19.90
Revenue (RMB)									
Upstream (from quarterly table)	217,742	237,355	246,097	483,451	288,921	306,921	595,842	308,961	615,882
Downstream Value Added	386,256	447,442	447,442	894,885	447,442	447,442	894,885	447,442	894,885
Total	603,998	684,797	780,618	1,465,415	736,363	754,364	1,490,727	756,403	1,510,767
Expense	468,349	526,521	618,808	1,145,329	551,903	550,903	1,102,806	561,923	1,112,826
Ebitda (RMB)									
Exploration and Production	110,615	114,746	127,492	242,238	144,460	153,461	297,921	154,480	307,941
Other	25,034	43,530	34,318	77,848	40,000	50,000	90,000	40,000	90,000
Total	135,649	158,276	161,810	320,086	184,460	203,461	387,921	194,480	397,941
Exploration	8,291	15,809	7,154	22,963	7,154	7,154	14,308	7,154	14,308
Deprec., Deplet., & Amort.	49,400	55,852	57,357	113,209	57,357	57,357	114,714	57,357	114,714
Other non cash									
Ebit	77,958	86,615	97,299	183,914	119,949	138,950	258,899	129,969	268,919
Interest	3,225	2,525	3,796	6,321	2,525	3,796	6,321	3,796	7,592
Ebt	74,733	84,090	93,503	177,593	117,424	135,154	252,578	126,173	261,327
Income Tax	21,663	18,210	20,303	38,513	29,356	31,085	60,441	31,543	62,629
Net Income (RMB)									
Exploration and Production	67,379	73,372	80,331	153,703					
Other	4,073	24,204	9,870	34,074					
Unallocated	(18,382)	(31,696)	(17,001)	(48,697)					
Total	53,070	65,880	73,200	139,080	88,068	104,068	192,137	94,630	198,698
Shares (millions)	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830
Earnings per share (RMB)	29	36	40	76	48	57	105	52	109
Ebitda Margin (E&P)	51%	48%	52%	50%	50%	50%	50%	50%	50%
Tax Rate	29%	22%	22%	22%	25%	23%	24%	25%	24%

	PetroChina										
Functional Cash Flow and Present Value											
				Present							
Λ	NTM Ebitda	Adjusted	PV/	Value							
	(US\$mm)	<u>R/P</u>	<u>Ebitda</u>	(US\$mm)							
Natural Gas	6,100	19.1	10.7	65,000	14%						
Oil	40,800	10.9	7.5	307,000	68%						
Downstream	13,700		5.8	80,000	18%						
	60,600	13.6	7.5	452,000	100%						
Debt (US\$mm)					68,000						
Net Present Value (US\$mm)					384,000						
Shares (mm)					1,830						
Net Present Value - Standard Estimate (US\$/sh)					210						
NPV Approximation by Cash Flow Multiple Dep	ending on Re	eserve Life (US\$/sh)		200						



				ompany Limi					
		Quarterly	Operating a	and Financial	Estimates	3			
									Twelve
	Q4	Q3	Q4	Year	Q1E	Q2E	Q3E	~	Months E
	12/31/09	9/30/10	12/31/10	2010	3/31/11	6/30/11	9/30/11	12/31/11	6/30/11
Volume									
Natural gas (bcf)	587	535	537	2,221	671	594	588	590	2,533
Natural Gas (mmcfd)	6,380	5,810	5,832	6,085	7,454	6,529	6,391	6,415	6,922
Days	92	92	92	365	90	91	92	92	366
Oil (mmb)	212	215	218	858	214	216	218	218	868
Oil (mbd)	2,304	2,334	2,373	2,351	2,373	2,373	2,373	2,373	2,373
Total gas & oil (mmb)	310	304	308	1,228	325	315	316	317	1,291
Total gas & oil (mbd))	3,368	3,302	3,345	3,365	3,615	3,461	3,438	3,442	3,526
Price									
Natural gas (\$/mcf)									
Henry Hub (\$/mmbtu)	4.16	4.38	3.80	4.40	4.11	4.23	4.40	4.67	4.49
Company	3.31	4.27	4.80	4.00	4.80	4.80	4.80	4.80	4.80
Oil (\$/bbl)									
WTI Cushing	76.09	76.08	85.10	79.43	93.67	103.03	104.60	105.07	104.71
Company	70.66	70.49	76.36	72.93	84.05	92.45	93.86	94.28	93.96
Total gas & oil (\$/bbl)	54.63	57.34	62.54	58.18	65.07	72.44	73.70	73.94	72.65
NY Harbor 3-2-1 (\$/bbl)	5.22	8.31	11.15	9.68	17.87	23.72	21.65	16.89	19.90
Revenue (\$mm)									
Natural Gas	1,946	2,284	2,575	8,875	3,221	2,852	2,822	2,833	12,161
Oil	14,979	15,135	16,669	62,574	17,950	19,963	20,489	20,582	81,602
Total	16,925	17,419	19,244	71,449	21,171	22,815	23,311	23,415	93,763
RMB/\$US	6.83	6.77	6.66	6.77	6.57	6.57	6.57	6.57	6.57
Total Upstream (RMB)	115,545	117,929	128,168	483,451	139,060	149,861	153,119	153,802	615,882
Other (Downstream)	220,711	245,373	289,148	981,964		- 17,000		,	020,002
Total Revenue	336,256	363,302	417,316	1,465,415					
Expense	273,789	288,399	330,409	1,145,329					
Ebitda (RMB)	275,765	200,000	220,102	1,1 10,025					
Exploration and Production									
Other									
Total	62,467	74,903	86,907	320,086					
Exploration	3,130	2,960	4,194	22,963					
Deprec., Deplet., & Amort.	24,626	26,788	30,569	113,209					
Other non cash	(71)	391	(391)	113,209					
Ebit	34,782	44,764	52,535	183,914					
Interest	2,179	1,370	2,426	6,321					
Ebt	32,603	43,394	50,109	177,593					
Income Tax	10,380	8,694	11,609	38,513					
Net Income (RMB)	10,360	0,074	11,009	30,313					
Exploration and Production									
Other									
Unallocated	22.222	24 700	20.500	120.000					
Total	22,223	34,700	38,500	139,080					
Shares (millions)	1,830	1,830	1,830	1,830					
Earnings per share (RMB)	12	19	21	76					
Ebitda Margin (E&P)	0.00	20::							
Tax Rate	32%	20%	23%	22%					

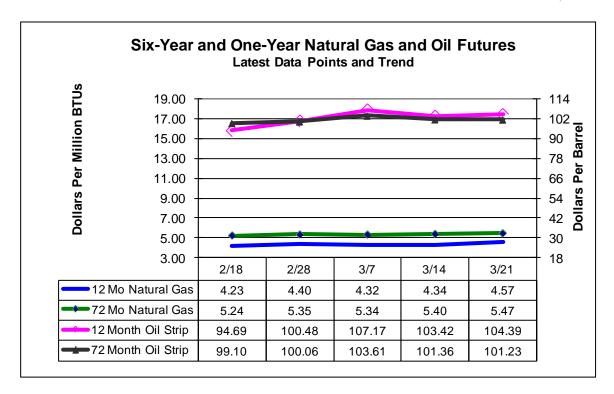


		Index of Rec	ent Research
Stock 1	[deas		
Date	Symbol	Subject	Theme
<u>Date</u> 18-Mar			Long-Term Natural Gas Resource for Asia
	LUKOY	Birchcliff Energy Ltd. Lukoil	Lukoil and Russia Ride the Rise of Oil (Meter Reader)
13-Mar			Contrarian Commodity Income (Income and SC Weekly)
8-Mar	_	Hugoton Royalty Trust Canadian Natural Resources	
	CNQ	Canadian Natural Resources Canadian Oil Sands Limited	End Buy (Meter Reader) Favored by Price Blowout (Meter Reader)
8-Mar	COSWF		, ,
4-Mar	RRC	Range Resources	Long-Life Resource (Income and Small Cap Weekly)
1-Mar	CVE	Cenovus Energy	High Growth in Deep Oil Sands (Meter Reader)
	DMLP	Dorchester Minerals, L.P.	Profitable Production amid Unstable Politics (ISCW)
	WOPEY	Woodside Petroleum Ltd.	Double LNG Late 2011
	OGZPY	Gazprom	Nearer Accord on Natural Gas to China (Meter Reader)
18-Feb	PEYUF	Peyto Exploration	Raise NPV to \$24 a Share from \$20 (Income and Small Cap)
16-Feb	XEC	Cimarex Energy	Raise NPV to \$120 on Oil Reserves
10-Feb	ECA	Encana	\$C5.4 Billion Joint Venture Highlights Undervaluation
4-Feb	HK	Petrohawk	Raise NPV to \$24 a Share from \$20 (Income and Small Cap)
1-Feb	COP	ConocoPhilllips	Rising Trends (Meter Reader)
1-Feb	CVX	Chevron Corporation	Rising Trends (Meter Reader)
1-Feb	XOM	ExxonMobil	Rising Trends (Meter Reader)
26-Jan	OXY	Occidental Petroleum	Growing U.S. Oil Production
18-Jan	MRO	Marathon Oil	Refining/Marketing Spinoff May Boost Value 27% (MR)
11-Jan	IMO	Imperial Oil	Accelerating Growth (Meter Reader)
7-Jan	WLL	Whiting Petroleum	Raise NPV to \$150 on North Dakota Oil (ISCW)
4-Jan	PBR	Petrobras	Restore Buy on Oil Growth (Meter Reader)
21-Dec	CHK	Chesapeake Energy	Carl Icahn Owns 5.8% (Meter Reader)
26-Nov	SBR	Sabine Royalty Trust	Raise NPV on Proven Performance (Income and SC Weekly
22-Nov	SJT	San Juan Basin Royalty Trust	Distribution Yield 5.8%, Not 4.6%
9-Nov	SU	Suncor Energy	Breakout from a Long Stock Price Base (Meter Reader)
9-Nov	DVN	Devon Energy Corporation	Breakout from a Long Stock Price Base (Meter Reader)
	For historical rese	earch by stock, go to mcdep.com, clic	k on Stock Ideas, click on stock by name.
Meter	Reader		
15-Mar	LUKOY	Lukoil	Lukoil and Russia Ride the Rise of Oil
8-Mar	COSWF, CNQ	Cdn Oil Sands, Cdn Natural Res	Favor COSWF, End Buy on CNQ
1-Mar	CVE	Cenovus Energy	High Growth in Deep Oil Sands
22-Feb	OGZPY	Gazprom	Nearer Accord on Natural Gas to China
	For earlier edition	s, go to <u>mcdep.com</u> , click on <u>Meter R</u>	leader.
Income	and Small Ca	p Weekly	
18-Mar			Natural Gas Price Breakout on Nuclear Tragedy
11-Mar	HGT	Hugoton Royalty Trust	Contrarian Commodity Income
4-Mar	RRC	Range Resources	Long-Life Resource
25-Feb	DMLP	Dorchester Minerals, L.P.	Profitable Production amid Unstable Politics



DEP Meter Reader

A Weekly Analysis of Large Cap Oil and Gas Stocks
March 22, 2011



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