Restore Buy on Petrobras for Oil Growth

Symbol	PBR	Ebitda Next Twelve Months ending 12/31/11 (US\$mm)	41,000					
Rating	Buy	North American Natural Gas/Ebitda (%)	0					
Price (US\$/sh)	37.29	Natural Gas and Oil Production/Ebitda (%)	82					
Pricing Date	1/3/11	Adjusted Reserves/Production NTM	10.0					
Shares (mm)	6428	EV/Ebitda	7.1					
Market Capitalization (US\$mm)	240,000	PV/Ebitda	11.0					
Debt (US\$mm)	51,000	Undeveloped Reserves (%)	40					
Enterprise Value (EV) (US\$mm)	291,000	Natural Gas and Oil Ebitda (US\$/boe)	34.50					
Present Value (PV) (US\$mm)	450,000	Present Value Proven Reserves(US\$/boe)	22.07					
Net Present Value (US\$/share)	62	Present Value Proven Reserves(US\$/mcfe)	3.68					
Debt/Present Value	0.11	Earnings Next Twelve Months (US\$/sh)	3.02					
McDep Ratio - EV/PV	0.65	Price/Earnings Next Twelve Months	12					
Dividend Yield (%/year)	3.2	Indicated Annual Dividend (US\$/sh)	1.18					
Note: Estimated cash flow and e	earnings tied t	to one-year futures prices for oil and natural gas.						
Reported results may vary widely from estimates. Estimated present value per share revised only infrequently.								
Estimated present value p	Estimated present value presumes a long-term price for oil of US\$100 a barrel and natural gas, \$8 a million btu.							
The Brazilian Government has voting control and with public sector entities owns 48% of Petrobras' equity.								

Summary and Recommendation

We recommend the current purchase of the common and preferred stock of **Petrobras** (**PBR**) for unlevered appreciation potential of 55% to a McDep Ratio of 1.0 where price would equal Net Present Value (NPV) of \$62 a share. On December 28, we raised NPV from \$51 a share on the basis of expecting a higher long-term oil price offset by an allowance for technological and political risk in Brazil. The trigger for restoring our buy recommendation is the stock price crossing above its 200-day average. We take that as a sign the dilution of a \$70 billion stock offering may have been absorbed and the shares may be positioned to appreciate.

Growth Prospects Expand Value by Half

Present value of \$260 billion for oil and \$8 billion for natural gas is about what we would estimate for global peers considering cash flow for the next twelve months and adjusted reserve life (see tables Functional Cash Flow and Present Value and Natural Gas and Oil Reserves on page 2). Not counted in proven reserves are the resources to support a targeted doubling of production in ten years. At that time, present value of the new production might also be worth \$268 billion in today's dollars. If so, the present value of \$268 billion ten years from now is about \$130 billion today, which is our estimate of what new discoveries contribute to NPV. In the same context, the new discoveries would have to be about 12 billion barrels. The first discovery, Tupi, has been renamed Lula and assigned 5 billion barrels of proven reserves to PBR's 65% share, including the surrounding area. In the recent stock offering, PBR acquired rights to another 5 billion barrels, primarily in the Franco field. Next, PBR would have 30% or more of new leases, including the 15 billion barrel Libra discovery. Though there are many ways

for the government to change the rules of the game, the balance of forces favor treating oil companies fairly, especially at this stage of development of Brazil's most important natural resource, in our opinion.

Near-Term Volumes Develop Slowly

More decline than expected from old fields apparently was the reason for PBR to lower its volume expectation for 2011. We project a comparatively flat trend in the next twelve months as we do for most companies for the purpose of consistent valuation (see table <u>Next Twelve Months Operating and Financial Estimates</u> on page 3).

Kurt H. Wulff, CFA

	Petrobras				
Functional (Cash Flow and	d Present V	alue		
				Present	
i	NTM Ebitda	Adjusted	PV/	Value	
	(US\$mm)	<u>R/P</u>	<u>Ebitda</u>	<u>(US\$mm)</u>	
Natural Gas	1,100	9.0	7.3	8,000	2%
Oil	32,670	10.1	8.0	260,000	58%
Downstream	7,200		7.2	52,000	12%
Pre Salt Deep Water Oil				130,000	29%
	40,970	10.0	11.0	450,000	100%
Debt (US\$mm)					51,000
Net Present Value (US\$mm)					399,000
Shares (mm)					6,428
Net Present Value - Standard Estimate (US\$/s	sh)				62
NPV Approximation by Cash Flow Multiple I	Depending on	Reserve Lif	e (US\$/sh)	62

	Petrobras									
Natural Gas and Oil Reserves										
	Natural Gas	Oil		Total						
	<u>(bcf)</u>	<u>(mmb)</u>	<u>(bcf)</u>	<u>(mmb)</u>	(percent)					
Reserves (bcfor mmb)										
Proven (P)	11,046	10,302	72,858	12,143	100					
Proven Developed (PD)	5,970	6,346	44,046	7,341	60					
Proven Undeveloped (PUD)	5,076	3,956	28,812	4,802	40					
Production, Next Twelve Months	942	821	5,869	978						
Reserve Life Index (years)										
R/P P	11.7	12.5	12.4	12.4						
R/P PD	6.3	7.7	7.5	7.5						
R/P PUD	5.4	4.8	4.9	4.9						
R/P PD+.5PUD	9.0	10.1	10.0	10.0						



				robras					
			onths Oper						
	(Internati	onal Finan	cial Reporti	ng Standard	s beginning	g 2010, US\$	5)		
									Next
									Twelve
	Q4	Q3	Q4E	Year	Q1E	Q2E	Q3E	Q4E	Months
	12/31/09	9/30/10	12/31/10	2010E	3/31/11	6/30/11	9/30/11	12/31/11	12/31/11
Volume									
Natural Gas (mmcfd)	2,496	2,562	2,746	2,580	2,472	2,538	2,562	2,746	2,580
Oil (mbd)	2,136	2,135	2,250	2,167	2,250	2,250	2,250	2,250	2,250
Total gas & oil (mmb)	235	236	249	948	240	243	246	249	978
Total gas & oil (mbd)	2,552	2,562	2,708	2,597	2,662	2,673	2,677	2,708	2,680
Price									
Natural gas (\$/mcf)	2.54	2.36	2.54	2.61	2.41	3.11	2.36	2.54	2.61
Oil (\$/bbl)									
WTI Cushing	76.09	76.08	85.10	79.43	92.59	93.91	94.62	94.97	94.02
Brent	75.00	76.86	85.97	79.34	93.54	94.88	95.59	95.94	94.99
Company	69.85	71.51	79.98	74.09	87.03	88.27	88.94	89.27	88.38
Total gas & oil (\$/bbl)	60.95	61.95	69.05	64.41	75.80	77.26	77.01	76.76	76.71
NY Harbor 3-2-1 (\$/bbl)	5.22	8.31	11.15	9.68	12.16	12.99	11.76	8.14	11.26
Revenue (mm\$)									
Natural gas	584	556	643	2,454	537	718	556	643	2,454
Oil	13,726	14,046	16,557	58,607	17,623	18,074	18,410	18,478	72,585
Total production	14,310	14,602	17,199	61,061	18,161	18,792	18,966	19,120	75,039
Other	11,890	16,678	16,678	62,064	16,678	16,678	16,678	16,678	66,711
Total	26,200	31,279	33,877	123,125	34,838	35,470	35,644	35,798	141,750
Expense	7.000	0.050	0.460	22 502	0.000	10.226	10.421	10.516	41.051
Production	7,223	8,052	9,460	32,793	9,988	10,336	10,431	10,516	41,271
Other	10,751	14,807	14,878	55,099	14,878	14,878	14,878	14,878	59,511
Ebitda (mm\$)	7,000	6.540	7.740	20.260	0.170	0.456	0.525	0.604	22.50
Production Other	7,088 1,138	6,549 1,871	7,740 1,800	28,268 6,965	8,172 1,800	8,456 1,800	8,535 1,800	8,604 1,800	33,768 7,200
Total Ebitda	8,226	8,421	9,540	35,234	9,972	10,256	10,335	10,404	40,968
	508	458		-	-	458	458	458	
Exploration	2,284	2,322	458	1,822	458				1,831 9,287
Deprec., Deplet., & Amort. Other non cash	(617)		2,322	8,482	2,322	2,322	2,322	2,322	9,287
Ebit	6,051	(1,359) 7,000	6,760	26,074	7,193	7 177	7 555	7,625	29,850
Ebt	6,051	7,000	6,760	26,074		7,477 7,477	7,555 7,555	7,625	29,850
Income Tax	874	2,137	2,366	7,871	7,193 2,517	2,617	2,644	2,669	10,447
	8/4	2,137	2,300	7,871	2,317	2,017	2,044	2,009	10,447
Net Income (mm\$) Production	3,386	4,426							
Other	1,791	4,426							
Total Net Income	5,177	4,863	4,394	18,204	4,675	4,860	4,911	4,956	19,402
Shares (millions)	4,387	4,863	6,428	4,751	6,428	6,428	6,428	6,428	6,428
Per share (\$)	1.18	1.11	0,428	3.83	0,428	0,428	0,428	0,428	3.02
Ebitda Margin (E&P)	50%	45%	45%	46%	45%	45%	45%	45%	45%
Tax Rate	14%	31%	35%	30%	35%	35%	35%	35%	35%



				Table						
	Mcl	De	p Larg	e Cap	Energy P	ortfoli	0			
G	eograp	hi	c Domi	icile an	d Busine	ss Segi	ments			
						Dungan	Maluo ba	Caaman	(0/)	
			D.				ıt Value by	segment	(70)	
			Price	F17/	г	North	Rest			
~	1.100		(US\$/sh)	EV/	Enterprise	Amer.	of World	0.1	-	14.5
	mbol/Rati		3-Jan	Market	Value	Natural	Natural		Down-	McDe
B = Buy, Cl	B (see bel	ow)	2011	Сар	(\$mm)	Gas	Gas	Prod'n	stream	Rat
U.S. Integrated	7707.6	-		1.10	445,000	0			10	0.5
Exxon Mobil Corporation	XOM		74.55	1.18	446,000	8	14	60	18	0.7
Chevron Corporation	CVX		91.94	1.14	210,000	3	10	76	11	0.6
ConocoPhillips	COP	В	68.24	1.41	134,000	14	8	65	14	0.6
Marathon Oil Corporation	MRO	В	37.59	1.42	37,900	5	2	71	22	0.6
Total or Median					828,000			68		0.6
Europe	DD ~~~		60.0-		01 -0-					
BG Group	BRGXF	_	20.80	1.15	81,600		26	46	28	0.8
Royal Dutch Shell plc	RDS-A		67.08	1.34	276,000	2	20	56	21	0.7
Statoil ASA (33%)	STO	В	24.06	1.48	37,300		34	66	-	0.6
BP plc	BP	_	45.15	1.64	234,000	5	8	69	18	0.6
Total S.A.	TOT	В	54.27	1.31	160,000		16	66	18	0.5
Total or Median					789,000			66		0.6
Australia/Brazil/China/Russia										
CNOOC Limited (34%)	CEO		244.12	1.04	38,600		8	92	-	1.1
Woodside Petroleum Ltd.	WOPEY	В	43.89	1.15	39,000		63	37	-	0.9
PetroChina Company Ltd (14%)	PTR	В	132.79	1.19	40,600		13	69	19	0.6
Petrobras	PBR	В	37.29	1.21	291,000		3	81	16	0.6
Gazprom (50%)	OGZPY	В	25.84	1.23	91,000		81	19	-	0.5
Lukoil Oil Company	LUKOY	В	57.93	1.15	54,400			69	31	0.4
Total or Median					555,000			69		0.6
U.S. Independent										
Southwestern Energy Company	SWN		38.07	1.09	14,500	100			-	1.0
Anadarko Petroleum Corp.	APC		76.63	1.55	59,000	37		60	3	0.9
Chesapeake Energy Corp.	CHK		26.51	1.71	33,600	88		12	-	0.8
Occidental Petroleum Corp.	OXY	В	98.00	1.06	84,800	8	1	86	6	0.8
EOG Resources, Inc.	EOG	CB	92.35	1.21	28,100	48	4	48	-	0.7
Devon Energy Corporation	DVN	В	78.68	1.12	38,300	55		45	-	0.7
Total or Median					258,000			48		0.8
Canada										
Penn West Petroleum Ltd.	PWE		24.66	1.31	13,900	17		83	-	0.8
Cenovus Energy Inc.	CVE	В	33.42	1.27	32,000	14		82	5	0.7
Canadian Natural Resources Lin	CNQ	В	45.14	1.22	60,000	12		88	-	0.7
Imperial Oil Limited (30%)	IMO		41.41	1.11	11,700	3		86	11	0.6
EnCana Corporation	ECA		29.88	1.39	30,700	92		8	-	0.6
Suncor Energy	SU		38.82	1.27	77,400	4		88	9	0.6
Canadian Oil Sands Limited	COSWF		27.16	1.12	14,700			100	-	0.5
Total or Median					240,000			88		0.6
Composite					2,670,000	9	13	64	14	0.6



		_	Table 2					
\mathbf{M}	lcDep l	Larg	e Cap F	Energy 1	Portfolio			
No	et Pres	ent V	Value ai	nd McD	ep Ratio			
					_			
			Price			Net		
			(US\$/sh)		Market	Present	Debt/	
	Symbol/R	ating	3-Jan	Shares	Сар	Value	Present	МсDep
B = Buy	, CB (see b	elow)	2011	(mm)	(US\$mm)	(US\$/sh)	Value	Ratio
U.S. Integrated								
Exxon Mobil Corporation	XOM	В	74.55	5,089	379,000	107.00	0.11	0.73
Chevron Corporation	CVX	В	91.94	2,007	185,000	146.00	0.08	0.66
ConocoPhillips	COP	В	68.24	1,400	96,000	119.00	0.19	0.65
Marathon Oil Corporation	MRO	В	37.59	712	26,760	68.00	0.19	0.64
Total or Median	_				687,000		0.15	0.66
Europe					,			2.20
BG Group plc	BRGXF		20.80	3,402	70,800	25.00	0.11	0.85
Royal Dutch Shell plc	RDS-A	В	67.08	3,069	206,000	96.00	0.19	0.76
Statoil ASA (33%)	STO	В	24.06	1,050	25,300	44.00	0.21	0.64
BP plc	BP	_	45.15	3,156	143,000	93.00	0.24	0.6
Total S.A.	TOT	В	54.27	2,245	122,000	111.00	0.13	0.50
Total or Median		D	31.27	2,2 13	567,000	111.00	0.19	0.64
Australia/Brazil/China/Russia					507,000		0.17	0.07
CNOOC Limited (34%)	CEO		244.12	152	37,200	220.00	0.04	1.1
Woodside Petroleum Ltd.	WOPEY	В	43.89	782	34,300	49.00	0.12	0.9
PetroChina Company Ltd (14%)	PTR	В	132.79	256	34,000	210.00	0.12	0.6
Petrobras	PBR	В	37.29	6,428	239,700	62.00	0.11	0.65
Gazprom (50%)	OGZPY	В	25.84	2,865	74,000	56.00	0.11	0.0.
-	LUKOY	В	57.93	814	47,200	150.00	0.10	0.3
Lukoil Oil Company Total or Median	LUKUI	ь	31.93	014		130.00		
					466,000		0.10	0.66
U.S. Independent	CIVAL		20.07	240	12 200	25.00	0.00	1.00
Southwestern Energy Company	SWN		38.07	349	13,300	35.00	0.09	1.08
Anadarko Petroleum Corp.	APC		76.63	496	38,000	78.00	0.35	0.99
Chesapeake Energy Corp.	CHK	D	26.51	744	19,700	33.00	0.36	0.87
Occidental Petroleum Corp.	OXY	В	98.00	814	79,800	123.00	0.05	0.83
EOG Resources, Inc.	EOG	CB	92.35	250	23,100	130.00	0.13	0.75
Devon Energy Corporation	DVN	В	78.68	436	34,300	112.00	0.08	0.72
Total or Median					208,200		0.11	0.84
Canada								
Penn West Petroleum Ltd.	PWE		24.66	440	10,600	31.00	0.20	0.82
Cenovus Energy Inc.	CVE	В	33.42	752	25,100	49.00	0.16	0.73
Canadian Natural Resources Limited	_	В	45.14	1,089	49,200	67.00	0.13	0.72
Imperial Oil Limited (30%)	IMO	В	41.41	257	10,600	62.00	0.07	0.69
EnCana Corporation	ECA	CB	29.88	736	22,000	51.00	0.19	0.66
Suncor Energy	SU	В	38.82	1,572	61,000	64.00	0.14	0.66
Canadian Oil Sands Limited	COSWF	В	27.16	484	13,200	52.00	0.06	0.5
Total or Median					192,000		0.14	0.69
CB=Contrarian Buy, Stock Price may	in downt	rend co	ompared to	200-day av	erage.			
McDep Ratio = Market cap and Deb	t to pr esen	t value	e of oil and	as and oth	ner businesse	3		



B = Buy, CB (see below) 2011 NTM NTM NTM NTM	11 2. 12 3. 11 2.	P/E NTM				Cap Er	ge	ep Lai	McD
Value Multiples and Distribution Yield Price Adjustd Price Adjustd Price Adjustd (US\$/sh) Resrvs/ PV/ EV/ Symbol/Rating B = Buy, CB (see below) 3-Jan Prod Ebitda Ebitda Ebitda F B = Buy, CB (see below) 2011 NTM	Distri /E NTM (%) 								
Price Adjustd	Distri /E NTM (%) 				Sumuuu	and Di	oles	-	Value
(US\$/sh) Resrvs/ PV/ EV/	Distri /E NTM (%) 								
Symbol/Rating 3-Jan Prod Ebitda Ebitda F	/E NTM (% 11 2 12 3 11 2				Adjustd				
B = Buy, CB (see below) 2011 NTM NTM NTM NTM NTM	11 2. 12 3. 11 2.		EV/	PV/	Resrvs/	(US\$/sh)			
U.S. Integrated XOM B 74.55 13.3 8.5 6.2 ConocoPhillips COP B 68.24 10.4 8.5 5.5 Marathon Oil Corporation MRO B 37.59 9.2 7.9 5.0 Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 5.3 Europe BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	11 2. 12 3. 11 2.	NTM	Ebitda	Ebitda	Prod	3-Jan	ing	mbol/Rat	Sy
Exxon Mobil Corporation XOM B 74.55 13.3 8.5 6.2 ConocoPhillips COP B 68.24 10.4 8.5 5.5 Marathon Oil Corporation MRO B 37.59 9.2 7.9 5.0 Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 5.3 Europe BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	12 3. 11 2.	1 1 1 1/1	NTM	NTM	NTM	2011	ow)	B (see bel	B = Buy, C
Exxon Mobil Corporation XOM B 74.55 13.3 8.5 6.2 ConocoPhillips COP B 68.24 10.4 8.5 5.5 Marathon Oil Corporation MRO B 37.59 9.2 7.9 5.0 Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 5.3 Europe BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	12 3. 11 2.								U.C. Integrated
ConocoPhillips COP B 68.24 10.4 8.5 5.5 Marathon Oil Corporation MRO B 37.59 9.2 7.9 5.0 Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 5.3 Europe BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	12 3. 11 2.	11	6.2	0.5	12.2	74.55	D	VOM	Ü
Marathon Oil Corporation MRO B 37.59 9.2 7.9 5.0 Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 5.3 Europe BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	11 2.						_		
Chevron Corporation CVX B 91.94 9.2 7.1 4.7 Total or Median 9.8 8.2 5.3 1 Europe BGGroup plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3							-		
Total or Median 9.8 8.2 5.3 1 Europe BGGroup plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3							-		*
Europe BGGroup plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3		10				91.94	В	CVX	*
BG Group plc BRGXF 20.80 14.9 9.4 8.0 Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	2.9	11	5.3	8.2	9.8				
Royal Dutch Shell plc RDS-A B 67.08 8.6 7.0 5.3	15 0.	15	8.0	9.4	14.0	20.80		BRCYE	
	-	10					D		
	7						ь		
Total S.A. TOT B 54.27 9.5 7.8 4.4	7 5.						D		
Statoil ASA (33%) STO B 24.06 7.0 6.6 4.2	8 4.								
						24.00	ь	310	
Total or Median 9.5 7.8 5.1 Australia/Brazil/China/Russia	8 4	0	3.1	7.0	9.5				
	20 2	20	10.0	12.0	17.1	42.90	D	WODEN	
		20 12							
							В		
		11					D		
1 5 ,		10							
Gazprom (50%) OGZPY B 25.84 30.2 8.0 4.1	5 0.						-		
Lukoil Oil Company LUKOY B 57.93 16.0 7.6 3.2	5 2.					57.93	В	LUKOY	* *
	2.0	11	5.8	7.9	14.8				
U.S. Independent			0.5	11.0	10.0	2 - 7 -		~~~~	
83		17							1 65 1
8, 1 , 1		21							** * *
Anadarko Petroleum Corp. APC 76.63 8.5 8.3 8.2	0.	10					-		
8,7 1	-	13					_		
		26							
		14				98.00	В	OXY	
	7 0.7	17	7.6	8.9	9.4				
Canada									
8,		23					В		
		32							
·		25							*
		15	8.6		21.0	41.41	-		
		21							
		22					В		
	13 3.	13	7.3		29.2	27.16	В	COSWF	
	2.4	22	8.6						
CB=Contrarian Buy, Stock Price may be in downtrend compared to 200-day average.				rage.	200-day ave	ompared to	nd co	n downtre	CB=Contrarian Buy, Stock Price may be in
EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation			iation	t, tax, depred	efore interes	Earnings be	da =	Debt; Ebito	EV = Enterprise Value = Market Cap and l
and amortization; NTM = Next Twelve Months Ended December 31, 2011; P/E = Stock Price to			to	Stock Price	, 2011; P/E=				
Earnings; PV = Present Value of oil and gas and other businesses									



_			Table	-	0.11		÷	
N	1cDep	La	rge Cap l	Energy l	Portfolio			
Rank	by Ent	erp	rise Valu	e to 200	Day Av	erage		
			Price					
			(\$/sh)		Enterprise	Value/		
	Symbol		3-Jan	52Wk	52Wk	50 Day	200 Day	МсДер
	R	atin,	2011	High	Low	Avg.	Avg.	Ratio
U.S. Integrated								
Chevron Corporation	CVX	В	91.94	1.00	1.31	1.06	1.14	0.66
ConocoPhillips	COP	В	68.24	0.99	1.29	1.06	1.13	0.65
Exxon Mobil Corporation	XOM	В	74.55	1.00	1.27	1.05	1.13	0.73
Marathon Oil Corporation	MRO	В	37.59	1.00	1.23	1.05	1.09	0.64
Median				1.00	1.28	1.06	1.13	0.66
Europe								
BG Group plc	BRGXF		104.00	0.98	1.40	1.04	1.16	0.85
Royal Dutch Shell plc	RDS-A	В	67.08	0.98	1.25	1.03	1.10	0.76
Statoil ASA (33%)	STO	В	24.06	0.93	1.19	1.07	1.08	0.64
BP plc	BP		45.15	0.81	1.33	1.04	1.04	0.61
Total S.A.	TOT	В	54.27	0.84	1.19	1.02	1.04	0.56
Median				0.96	1.26	1.04	1.09	0.65
Australia/Brazil/China/Russia								
CNOOC Limited (34%)	CEO		244.12	0.99	1.71	1.08	1.29	1.11
Gazprom (50%)	OGZPY	В	25.84	0.97	1.33	1.08	1.14	0.51
PetroChina Company Ltd (14%)	PTR	В	132.79	0.98	1.27	1.04	1.11	0.67
Woodside Petroleum Ltd.	WOPEY	В	43.89	0.95	1.28	1.03	1.07	0.91
Lukoil Oil Company	LUKOY	В	57.93	0.96	1.26	1.02	1.04	0.42
Petrobras	PBR	В	37.29	0.79	1.16	1.08	1.01	0.65
Median				0.96	1.28	1.06	1.09	0.66
U.S. Independent							-117	
Anadarko Petroleum Corp.	APC		76.63	0.98	1.55	1.10	1.19	0.99
Occidental Petroleum Corp.	OXY	В	98.00	0.99	1.33	1.10	1.17	0.81
Devon Energy Corporation	DVN	В	78.68	0.99	1.30	1.09	1.16	0.72
Chesapeake Energy Corp.	CHK		26.51	0.94	1.18	1.09	1.10	0.87
Southwestern Energy Company	SWN		43.99	0.74	1.22	1.05	1.02	1.08
EOG Resources, Inc.	EOG	СВ	92.35	0.83	1.07	1.00	0.95	0.75
Median	Loc	CD	72.33	0.96	1.26	1.09	1.13	0.84
Canada				0.70	1.20	1.07	1.13	0.07
Canadian Natural Resources	CNQ	В	45.14	0.98	1.38	1.10	1.19	0.72
Cenovus Energy Inc.	CVE	В	33.42	0.99	1.33	1.08	1.14	0.72
Suncor Energy	SU	В	38.82	0.98	1.29	1.08	1.14	0.73
Penn West Petroleum Ltd.	PWE	ע	76.63	0.98	1.35	1.05	1.14	0.82
Imperial Oil Limited (30%)	IMO	В	41.41	0.96	1.16	1.03	1.13	0.69
Canadian Oil Sands Limited	COSWF	В	26.61	0.90	1.15	1.04	1.02	0.09
EnCana Corporation	ECA	СВ	29.88	0.88	1.10	1.04	0.99	0.55
Median	LCA	CD	29.00	0.88	1.10	1.08	1.13	0.69
CB=Contrarian Buy, Stock Price n	nov ho in d	lows	trand compara			1.00	1.13	0.09

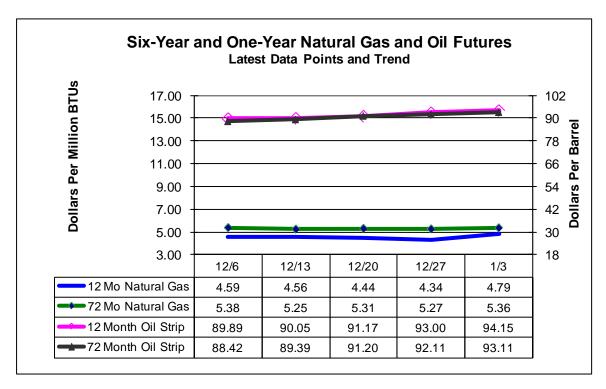


6-Dec COSWF Canadi 3-Dec HK Petroha 3-Dec RRC Range 26-Nov SBR Sabine 22-Nov SJT San Jua 19-Nov VNR Vangua 19-Nov ENP Encore 16-Nov PBR Petroba 12-Nov DMLP Dorche 11-Nov BIREF Birchcl 9-Nov OCZPY Gazpro 9-Nov SU Suncor 9-Nov DVN Devon 4-Nov EOG EOGR 2-Nov XOM Exxon 4-Nov EOG EOGR 2-Nov XOM Exxon 29-Oct HGT Hugoto 28-Oct PTR PetroC 28-Sep CVX Chevro 28-Sep MRO Marath 28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesap 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	Index of R	ecent Research
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11-Nov BIREF Birchel 9-Nov OGZPY Gazpro 9-Nov SU Suncor 9-Nov DVN Devon 4-Nov EOG EOGR 2-Nov XOM Exxon 4-Nov EOG EOGR 2-Nov XOM Exxon 29-Oct HGT Hugoto 28-Oct PTR PetroCl 28-Sep CVX Chevro 28-Sep MRO Marath 28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WIL XEC 24-Dec WIL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	nester Minerals, L.P.	
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4-Nov EOG EOGRe 2-Nov XOM ExxonM 29-Oct HGT Hugote 28-Oct PTR PetroC 28-Sep CVX Chevro 28-Sep MRO Marath 28-Sep COP Conoce 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXYCOSWF 21-Dec CHK Chesar 14-Dec EOGECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec RRC, HK Range	n Energy Corporation	Breakout from a Long Stock Price Base (Meter Reader)
2-Nov XOM ExxonM 29-Oct HGT Hugoto 28-Oct PTR PetroCl 28-Sep CVX Chevro 28-Sep MRO Marath 28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range		
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28-Sep CVX Chevro 28-Sep MRO Marath 28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WIL XEC 24-Dec WIL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	, ,	Natural Gas Income at Low Price (Income and SC Weekly)
28-Sep MRO Marath 28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range		Raise NPV to \$170 from \$150 on Natural Gas and Downstream
28-Sep COP Conocc 7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LOCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	ron Corporation	Reload Oil Stock Classics (Meter Reader)
7-Sep LUKOY Lukoil For historical research by st Meter Reader 4-Jan 28-Dec CVX OXY COSWF 21-Dec CHK Chesar 14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to mx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LOCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	thon Oil Company	Reload Oil Stock Classics (Meter Reader)
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14-Dec EOG ECA IMO COSWF 7-Dec MRO CVX STO TOT OGZP 30-Nov COP TOT COSWF For earlier editions, go to nx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	apeake Energy	Carl Icahn Owns 5.8%
30-Nov COP TOT COSWF For earlier editions, go to nx Income and Small Cap Weekl 31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range		A Few Good Contrarian Buys Left
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31-Dec WLL XEC 24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	ncdep.com, click on Meta	<u>er Reader</u> .
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24-Dec WLL DNR LGCY 17-Dec 10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range	kly	
17-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range		Longer Life, Higher Value
10-Dec PWE BRY FRHLF ENP 3-Dec RRC, HK Range		Raise NPV on Long-Term Oil Price of \$100
3-Dec RRC, HK Range		Canadian Income Trusts R.I.P.
3-Dec RRC, HK Range		Reverse McDep Indentifies Higher Oil Values
	e Resources, Petrohawk	New Buys - Selling Pressure Exhausted
26-Nov SBR Sabine	e Royalty Trust	Raise NPV on Proven Performance
For earlier editions, go to mo		



DEP Meter Reader

A Weekly Analysis of Large Cap Oil and Gas Stocks January 4, 2011



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