

Buy Petrobras for Long-Term Oil Growth

Summary and Recommendation

Emerging market participation and the most value in undeveloped oil reserves among the largest companies gets us interested in owning shares in buy-recommended **Petroleo Brasileiro (PBR)**. Development will take money and time with occasional unpredictable setbacks as history has shown with other new oil provinces, such as Alaska and the North Sea, for example. We're betting that the ultimate prize will be worth it despite major uncertainties of government policy, deep water frontier technology and oil price. Momentum is positive today with stock price above its 200-day average and the futures prices for oil delivered over the next six years above the 40-week average (see charts on page 2, <u>Petrobras Stock Price</u> and <u>Six-Year Commodity Price</u> <u>Meter</u>).

The seventh largest producer in our global coverage, Petrobras may double volume by 2020, (see slide on page 3 from October 26 company presentation). We attempt to quantify roughly new discoveries not currently contributing to cash flow by including a value for "Pre-Salt Deep Water Oil" at 29% of NPV (see table on page 3, <u>Functional Cash Flow and Present Value</u>). Hundreds of billions of dollars of investment are likely to be required.

The swing of downstream profits illustrates the overriding influence of government regulations. Positive downstream (Other) profits in 2009 are making up for losses in 2008. Product prices have not come down as much as crude oil in 2009 after not going up as much as crude oil in 2008 (see table on page 4, <u>Next Twelve Months Operating and Financial Estimates</u>). Brazil is motivated to provide a profitable environment for Petrobras because investors are needed to supply equity capital for the development of the oil finds.

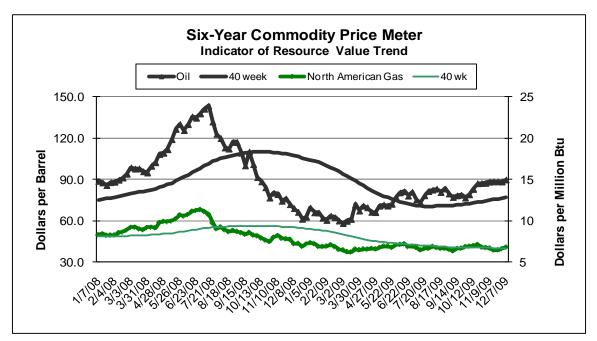
Attracted by deep water oil discoveries, investors have made Petrobras the second largest by Enterprise Value among oil and gas companies more than half publicly held (see Table 1). Estimated Net Present Value (NPV) of \$58 a share leads to a McDep Ratio of 0.89, implying further appreciation potential (see Table 2). Enterprise Value to Ebitda of 8.1 times compared to a median 5.6 times for larger companies illustrates how much more investors are already paying for higher growth (see Table 3).

Finally, new life in natural gas affects Petrobras indirectly. Along with the arrival of cold weather in the Northern Hemisphere, six year natural gas mounts a new attempt to begin an uptrend as the latest quote of \$6.77 a million Btu again exceeds the 40-week average now at \$6.68 (see chart on page 9, <u>Six-Year and One-Year Natural Gas and Oil Futures</u>). While the quoted price is for North America, it has global implications transmitted through the international liquefied natural gas market.

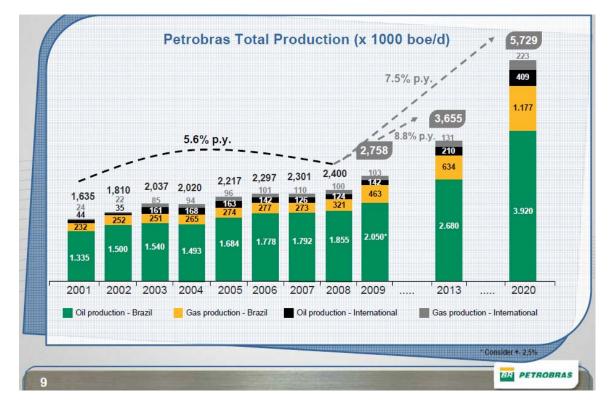
Kurt H. Wulff, CFA











	Petrobras											
Functional C	Cash Flow and	l Present Va	alue									
	Present											
Ν	NTM Ebitda	Adjusted	PV/	Value								
	<u>(US\$mm)</u>	<u>R/P</u>	<u>Ebitda</u>	<u>(US\$mm)</u>								
Rest of World Natural Gas	1,330	9.6	8.3	11,000	4%							
Oil	28,060	9.0	6.2	174,000	57%							
Downstream	4,400		7.5	33,000	11%							
Pre Salt Deep Water Oil				89,000	29%							
	33,790	9.1	9.1	307,000	100%							
Debt (US\$mm)					53,000							
Net Present Value (US\$mm)					254,000							
Shares (mm)					4,387							
Net Present Value - Standard Estimate (US\$/s	h)				58							
NPV Approximation by Cash Flow Multiple D	epending on	Reserve Lif	e (US\$/sh)		63							



	N	T 1 M		robras		• 4			
	Next	Twelve Mo	-	ating and Fi		imates			
			(U.S. Acco	ounting, US	>)				Next
									Twelve
	03	02	03	O4E	Year	OlE	O2E	O3E	Months
	9/30/08	6/30/09	9/30/09	12/31/09	2009E	3/31/10	6/30/10	9/30/10	12/31/10
Volume	7/30/00	0/30/07	7/30/07	12/31/07	20071	5/51/10	0/30/10	7750710	12/31/10
Natural Gas (mmcfd)	2,580	2,520	2,478	2,825	2,563	2,424	2,520	2,726	2,696
Days	92	2,320	92	92	365	2,424 90	2,320	92	365
Oil (mbd)	2,007	2,104	2,121	2,200	2,126	2,200	2,200	2,333	2,289
Total gas & oil (mmb)	2,007	2,104	2,121	2,200	932	2,200	2,200	2,555	1,000
Total gas & oil (mbd)	2.437	2.524	2.534	2,671	2,553	2.604	2.620	2.787	2,738
Price	2,437	2,324	2,334	2,071	2,000	2,004	2,020	2,707	2,750
Natural gas (\$/mcf)	7.13	3.47	3.00	3.00	3.47	3.00	3.00	3.00	3.00
Oil (\$/bbl)	1.13	5.47	5.00	5.00	7 - 10	5.00	5.00	5.00	5.00
WTI Cushing	117.99	59.52	68.22	76.24	61.73	75.82	79.51	81.50	80.01
Brent	115.00	59.00	68.00	75.99	61.75	75.58	79.26	81.24	79.75
Company	98.82	48.69	63.56	71.02	54.38	70.64	74.08	75.93	74.65
Total gas & oil (\$/bbl)	88.93	44.06	56.13	61.68	48.77	62.47	65.09	66.49	65.35
NY Harbor 3-2-1 (\$/bbl)	11.84	9.49	9.45	5.23	8.34	7.94	9.50	9.66	8.28
Revenue (mm\$)	11.04	7.47	7.45	5.25	0.04	7.94	7.50	7.00	0.20
Natural gas	1,692	796	684	780	3,245	654	688	752	2,952
Oil	18,247	9,323	12,402	14,375	42,200	13,987	14,830	16,298	62,369
Total production	19,939	10,120	13,086	15,155	45,445	14,641	15,518	17,050	65,321
Other	16,144	11,462	12,789	12,789	48,168	12,789	12,789	12,789	51,157
Total	36.083	21,582	25,875	27.944	93,613	27,430	28,307	29.839	116,478
Expense	50,005	21,502	20,010	27,911	,010	27,150	20,507	27,007	110,170
Production	8,364	4,847	7,328	8,335	24,743	8,053	8,535	9,377	35,927
Other	18,683	8,697	11,314	11,689	40,158	11,689	11,689	11,689	46,757
Ebitda (mm\$)	10,005	0,077	11,514	11,007	40,150	11,007	11,007	11,009	40,757
Production	11,576	5,272	5,758	6,820	20,702	6,589	6,983	7,672	29,395
Other	(2,540)	2,766	1,475	1,100	8,010	1,100	1,100	1,100	4,400
Total Ebitda	9,036	8,038	7,233	7,920	28,712	7,689	8,083	8,772	33,795
Exploration	463	368	396	396	1,580	396	396	396	1,584
Deprec., Deplet., & Amort.	1,662	1,677	2,013	2,013	7,031	2,013	2,013	2,013	8,052
Other non cash	(1,893)	844	(815)	2,010	.,	2,010	2,010	2,010	0,002
Ebit	8,804	5,149	5,639	5,511	20,228	5,280	5,674	6,363	24,159
Ebt	8,804	5,149	5,639	5,511	20,228	5,280	5,674	6,363	24,159
Income Tax	2,838	1,201	1,866	1,929	6,293	1,848	1,986	2,227	8,456
Net Income (mm\$)	2,000	1,201	1,000	1,725	0,220	1,010	1,000	_,/	0,100
Production	6,575	2,534	2,700						
Other	(609)	1,414	1,073						
Total Net Income	5,966	3,948	3,773	3,582	13,935	3,432	3,688	4,136	15,703
Shares (millions)	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387
Per share (\$)	1.36	0.90	0.86	0.82	3.18	0.78	0.84	0.94	3.58
Ebitda Margin (E&P)	58%	52%	44%	45%	46%	45%	45%	45%	45%
Tax Rate	32%	23%	33%	35%	31%	35%	35%	35%	35%



		7	InDar	Table 1		•				
			_		y Portfoli					
	Geogr	aphio	e Domio	cile and	l Busines	s Segn	nents			
						Prosor	t Value by	Saaman	t (%)	
			Price			North	Rest	Segmen	(/0)	
			(US\$/sh)	EV/	Enterprise	Amer.	of World			
	C 1	D	· ·	Market	Value	Natural	Natural	Oil	Down-	M-D-
	Symbol/	0			(\$mm)	Gas	Gas	Prod'n		McDep Deti
	1	B = Buy	2009	Cap	(\$mm)	Gas	Gas	Proa n	stream	Ratie
U.S. Integrated										
Exxon Mobil Corporation	XOM	В	73.77	1.14	405.000	5	22	54	19	0.85
Chevron Corporation	CVX	B	78.17	1.14	187,000	4	10	71	14	0.80
Marathon Oil Corporation	MRO	B	31.84	1.50	34,000	8	5	61	26	0.69
ConocoPhillips	COP	B	50.82	1.69	128,000	12	11	64	13	0.61
Total or Median *	30%	9%	13%	1.07	754,000	12	11	04	15	0.75
Totat of meanan	5070	270	1570		757,000					0.75
Europe										
BGGroup	BRGXF	В	18.09	1.15	70,600		21	48	31	0.84
Royal Dutch Shell plc	RDS-A	В	60.83	1.32	246,000	3	27	49	22	0.82
BP plc	BP	В	58.17	1.33	245,000	6	9	63	22	0.78
Statoil ASA (33%)	STO	В	24.62	1.40	36,200		49	51	-	0.77
Total S.A.	TOT	В	63.61	1.26	179,000		19	59	22	0.75
Total or Median *	31%	11%	17%		777,000					0.78
Brazil/China/Russia										
CNOOC Limited (34%)	CEO	В	154.17	1.01	23,700		11	89	-	1.14
Petrobras	PBR	В	50.12	1.24	273,000		5	80	15	0.89
PetroChina Company Ltd (14%	PTR	В	126.40	1.08	35,000		15	69	15	0.85
Lukoil Oil Company	LUKOY	В	56.60	1.14	54,700			67	33	0.45
Gazprom (50%)	OGZPY	В	22.08	1.31	86,000		76	24	-	0.41
Total or Median *	19%	11%	17%		472,000					0.85
US Indonondont										
U.S. Independent Anadarko Petroleum Corp.	A DC	D	59.27	1.40	42,000	40		477	5	0.00
-	APC	B	58.27	1.48	42,800	48	~	47	5	0.99
EOG Resources	EOG	B	87.27	1.16	25,300	68	5	28	-	0.96
XTO Energy Inc.	XTO	B	41.15	1.46	34,900	73	1	27	-	0.91
Occidental Petroleum Corp.	OXY	В	78.24	1.08	68,800	10	1	82	7	0.83
Chesapeake Energy Corp.	CHK	P	22.80	1.90	27,200	88		12	-	0.79
Devon Energy Corporation	DVN	B	65.79	1.31	38,800	61		39	-	0.73
Total or Median *	10%	14%	17%		238,000					0.87
Canada										
Cenovus Energy Inc.	CVE	В	24.21	1.33	24,300	24		64	11	0.92
Canadian Natural Resources	CNQ	B	65.36	1.33	46,900	20		80	-	0.85
EnCana Corporation	ECA	B	27.79	1.50	31,300	93		7	-	0.85
Imperial Oil Limited (30%)	IMO	B	37.31	1.09	10,500	5		79	16	0.79
Suncor Energy	SU	B	34.93	1.33	73,000	5		85	10	0.73
Canadian Oil Sands Trust	COSWF	B	27.90	1.10	14,900	5		100		0.69
Total or Median *	8%	14%	20%	1.10	201,000			100		0.82
	0,0	/ 0	2070		,000					5.02
Income and Small Cap (see se		2								
Composito	2%	41%	17%		43,500	39		61		0.92
Composite Enterprise Value Weighting	100%				2 185 500	10	15	60	15	0.79
1 0 0	100%	1000/			2,485,500	10	15	60 54	15	0.78
Equal Weighting Equal Weighted Buys		100%	100%			33	6	54	6	0.84
			100%			26	10	55	9	0.80

Percentages in Symbol column refer to current market Enterprise Value weightings; Rating column, equal weightings.
Percentages in Price column refer to equal weighted buys.



			Table 2					
	McE)ep l	Energy	Portfol	io			
Net	Presei	nt Va	alue and	d McDe	ep Ratio			
			Price			Net		
			(US\$/sh)		Market	Present	Debt/	
	Symbol/R		7-Dec	Shares	Cap	Value	Present	McDep
	B	= Buy	2009	(mm)	(US\$mm)	(US\$/sh)	Value	Ratic
U.S. Integrated								
Exxon Mobil Corporation	XOM	В	73.77	4,803	354,000	89.00	0.11	0.85
Chevron Corporation	CVX	B	78.17	2,001	156,000	102.00	0.13	0.80
Marathon Oil Corporation	MRO	B	31.84	711	22,640	53.00	0.23	0.69
ConocoPhillips	COP	B	50.82	1,498	76,000	105.00	0.25	0.61
Total or Median	001	5	50.02	1,490	609,000	105.00	0.18	0.75
Totat of meature					009,000		0.10	0.75
Енгоре								
BG Group plc	BRGXF	В	18.09	3,390	61,320	22.00	0.11	0.84
Royal Dutch Shell plc	RDS-A	В	60.83	3,066	187,000	79.00	0.20	0.82
BP plc	BP	В	58.17	3,156	184,000	80.00	0.20	0.78
Statoil ASA (33%)	STO	В	24.62	1,051	25,870	35.00	0.22	0.77
Total S.A.	TOT	В	63.61	2,237	142,000	90.00	0.15	0.75
Total or Median					600,000		0.20	0.78
Brazil/China/Russia								
CNOOC Limited (34%)	CEO	В	154.17	152	23,460	135.00	0.01	1.14
Petrobras	PBR	В	50.12	4,387	219,880	58.00	0.17	0.89
PetroChina Company Ltd (14%)	PTR	В	126.40	256	32,380	150.00	0.06	0.85
Lukoil Oil Company	LUKOY	В	56.60	847	48,000	135.00	0.06	0.45
Gazprom (50%)	OGZPY	В	22.08	2,965	65,500	64.00	0.10	0.41
Total or Median					389,000		0.06	0.85
U.S. Independent								
Anadarko Petroleum Corp.	APC	В	58.27	494	28,800	59.00	0.32	0.99
EOG Resources	EOG	B	87.27	251	21,900	92.00	0.13	0.96
XTO Energy Inc.	XTO	B	41.15	580	23,870	47.00	0.29	0.91
Occidental Petroleum Corp.	OXY	B	78.24	814	63,700	95.00	0.06	0.83
Chesapeake Energy Corp.	CHK	5	22.80	626	14,270	34.00	0.38	0.79
Devon Energy Corporation	DVN	В	65.79	450	29,600	98.00	0.17	0.73
Total or Median	Din	5	05.17	150	182,100	20.00	0.23	0.87
Canada								
Cenovus Energy Inc.	CVE	В	24.21	751	18,180	27.00	0.23	0.92
Canadian Natural Resources	CNQ	В	65.36	542	35,400	80.00	0.21	0.85
EnCana Corporation	ECA	В	27.79	751	20,900	35.00	0.28	0.85
Imperial Oil Limited (30%)	IMO	В	37.31	256	9,570	48.00	0.07	0.79
Suncor Energy	SU	В	34.93	1,572	54,910	52.00	0.18	0.73
Canadian Oil Sands Trust	COSWF	В	27.90	484	13,500	42.00	0.06	0.69
Total or Median					152,000		0.20	0.82

McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses Estimated present value presumes a long-term price for oil of US\$75 a barrel and natural gas, \$8 a million btu.

Please see disclosures on the final page.



			Table 3					
	McDe	ep 1	Energy	Portfol	io			
Value	Multi	oles	s and Di	istribut	ion Yiel	d		
			Price	Adjustd				Divd or
			(US\$/sh)	Resrvs/	PV/	EV/		Distrib
S	ymbol/Rat	ing	7-Dec	Prod	Ebitda	Ebitda	P/E	NTM
	B =	Buy	2009	NTM	NTM	NTM	NTM	(%)
U.S. Integrated	VOM	D	דר כד	12.4	9.6	7.2	12	22
Exxon Mobil Corporation	XOM	B	73.77	12.4	8.6	7.3	13	2.3
Chevron Corporation	CVX	B	78.17	9.7	7.0	5.6	12	3.5
ConocoPhillips	COP	B	50.82	11.2	8.4	5.2	9	3.9
Marathon Oil Corporation	MRO	В	31.84	9.3	7.1	4.9	10	3.0
Total or Median				10.4	7.8	5.4	11	3.2
Europe								
BG Group plc	BRGXF	В	18.09	8.1	9.1	7.6	15	1.2
Total S.A.	TOT	B	63.61	9.4	7.4	5.6	10	5.3
Royal Dutch Shell plc	RDS-A	B	60.83	7.9	6.8	5.6	10	5.5
BP plc	BP	B	58.17	9.6	6.9	5.4	9	5.8
Statoil ASA (33%)	STO	B	24.62	7.5	6.4	4.9	22	5.2
Total or Median	510	D	24.02	8.1	6.9	5.6	12	5.3
Total of Median				0.1	0.9	5.0	12	5.5
Brazil/China/Russia								
Petrobras	PBR	В	50.12	9.1	9.1	8.1	14	2.7
CNOOC Limited (34%)	CEO	В	154.17	6.9	5.8	6.6	12	3.3
PetroChina Company Ltd (14%)	PTR	В	126.40	13.9	7.6	6.5	16	3.2
Lukoil Oil Company	LUKOY	В	56.60	16.3	8.7	3.9	7	2.3
Gazprom (50%)	OGZPY	В	22.08	24.6	8.3	3.4	4	0.2
Total or Median				13.9	8.3	6.5	12	2.7
U.S. Independent		_	0					
EOG Resources	EOG	В	87.27	9.8	9.1	8.7	27	0.7
XTO Energy Inc.	XTO	В	41.15	10.7	8.9	8.1	14	1.2
Chesapeake Energy Corp.	CHK	_	22.80	11.1	10.1	8.0	12	1.3
Anadarko Petroleum Corp.	APC	B	58.27	8.9	7.3	7.2		0.6
Occidental Petroleum Corp.	OXY	В	78.24	11.2	8.0	6.7	15	1.7
Devon Energy Corporation	DVN	B	65.79	8.9	7.9	5.8	11	1.0
Total or Median				10.3	8.4	7.6	14	1.1
Canada								
Imperial Oil Limited (30%)	IMO	В	37.31	20.9	13.0	10.3	21	1.0
Canadian Oil Sands Trust	COSWF	B	27.90	20.9	13.5	9.3	14	6.3
Cenovus Energy Inc.	CVE	B	27.90	9.8	9.1	8.4	20	3.3
EnCana Corporation	ECA	B	24.21	8.7	9.6	8.2	20	2.9
Suncor Energy	SU	B	34.93	13.9	10.3	7.5	24	1.1
Canadian Natural Resources	CNQ	B	65.36	7.5	8.2	7.3	13	0.6
Total or Median	CNQ	D	05.50	11.8	10.0	8.3	20	2.0
101ul of Medium		-		11.0	10.0	0.5	20	2.0
EV = Enterprise Value = Market Cap and	l Deht: Fh	itda	= Farnings	hefore inte	rest tax de	nreciation		
and amortization; $NTM = Next Twelve I$								
	1			, 2010, 17	- Stock I			

Earnings; PV = Present Value of oil and gas and other businesses

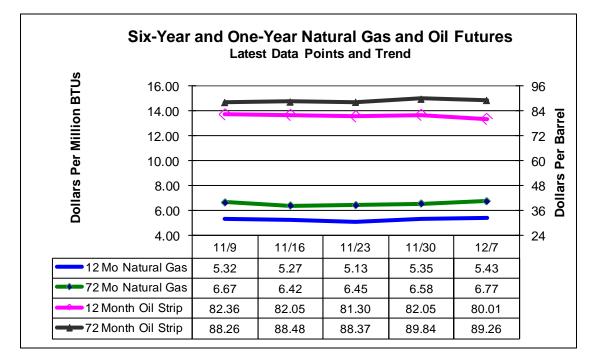
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			Index of Reco	ent Resea	rch			
	-							
Stock]	[de	eas						
Date	Γ	<u>Symbol</u>	<u>Subject</u>	<u>Theme</u>				
4-Dec		COSWF	Canadian Oil Sands Trust	Novembe	er Production	Below Cap	acity	
1-Dec	Г	ECA, CVE	EnCana, Cenovus Energy Inc.		ana, Buy Cen			
20-Nov	Γ	FRHLF	Freehold Royalty Trust	Highest I	Distribution F	Rate Unhed	ged (ISC We	eekly)
17-Nov	*	BRGXF	BG Group	Oil Price	Trend Validat	tes Offshor	e Brazil	
13-Nov		ECA	EnCana Corporation	Approac	hing Novemb	er 30 Split i	into Two Co	mpanies
13-Nov	*	PEYUF	Peyto Energy Trust	Deep Bas	in Drilling "O	Joing to Exp	olode" (ISC	Weekly)
9-Nov		OGZPY	Gazprom		covery from			
6-Nov	*	SU	Suncor Energy		o Keep 12% 3			
6-Nov	*	EOG	EOG Resources Inc.	Accentin	*			
5-Nov	*	DMLP	Dorchester Minerals, L.P.		lling on DML	P Land		
6-Nov	-	HGT	Hugoton Royalty Trust		ion Trend Up		nd Small Car	Weekly)
6-Nov	*	MRO	Marathon Oil Corporation		Expansion No			_
6-Nov	-	APC	Anadarko Petroleum Corporation		atio above 1	<i>.</i>		
5-Nov	-	CNQ	Canadian Natural Resources		Mining Cha			
5-Nov	-	TOT	Total S.A.		ects for Grow	0		
5-Nov	-	STO	Statoil ASA		Leading Natu		۰e	
4-Nov	_	XTO	XTO Energy Inc.		le Business			
4-Nov	-	DVN	Devon Energy Corporation		in Shale Gas			
4-Nov	-	XEC	Cimarex Energy Company	Ū	t Present Valu	ie to \$50 a.	Share from \$	46
3-Nov	-	CEO	CNOOC Ltd		a Oil and Gas			
3-Nov	-	PTR	PetroChina Company Limited		a Oil and Gas			
2-Nov	-	IMO	Imperial Oil Limited	-	a On and Oa			n Barrels
2-Nov	-	EAC	Encore Acquisition Company		Resources O			
2-Nov	_	CVX	Chevron Corporation		Present Valu			-
29-Oct	-	XOM	Exxon Mobil Corporation		w Rising after			φ <i>7</i> 1
29-Oct	_	RDSA	Royal Dutch Shell plc		Downstream			
29-0ct 28-0ct	-	COP	ConocoPhillips		ng to Revital	-		
23-Oct 27-Oct	-	BP	BP p.l.c.		t Present Valu		Shara from S	27
23-Oct	-	OXY	Occidental Petroleum Corporation		t Present Valu			
4-Sep	_	SJT	San Juan Basin Royalty Trust		to Buy (Inco			
3-Sep	-	PBR	Petrobras		ulatory Mode		•	
30-Aug	-	LUKOY	Lukoil Oil Company		ting to Russia			
14-Aug	_	BIR.TO	Birchcliff Energy Ltd.		Small Cap Car			TECW)
Meter			Bieneini Energy Etd.	Spined 3	sinan Cap Cai		Cas Flouuce	
8-Dec			Weekly					
1-Dec	-		EnCana, Cenovus Energy Inc.	Dury En C	ana, Buy Cen	0.000		
24-Nov	+			5	ana, Buy Cen as Price Tren		Acres Detions	
24-100v 17-Nov	*		Weekly BG Group		Trend Validat			
	_		Cap Weekly	OII Price	riend validat			
4-Dec	- a		Canadian Oil Sands Trust	Novembe	er Production	Palaw Can	o oitu	
27-Nov	+		Weekly		y Unlimited C			ral Gao
	+		Freehold Royalty Trust		-			iai Ods
20-Nov	*			-	Distribution F		-	
13-Nov	_		Peyto Energy Trust	Deep Ваз	in Drilling "C	Joing to Ex	Jode	
Indust 2-Apr	ry *		Presentation	Moltine N	Joney in Oil	and Cas St	ocks	
2-Apr	+		1 resentation	wraking N	Aoney in Oil	anu Gas St	UCKS	
	*	Archived o	n www.mcdep.com					

Please see disclosures on the final page.





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