Marathon Oil (MRO) Bakken Strengthens

Symbol	MRO	Ebitda Next Twelve Months ending 6/30/14 (US\$mm)	7,300
Rating	Buy	North American Natural Gas/Ebitda (%)	4
Price (US\$/sh)	35.83	Natural Gas and Oil Production/Ebitda (%)	100
Pricing Date	7/8/13	Adjusted Reserves/Production NTM	9.1
Shares (mm)	712	EV/Ebitda	5.0
Market Capitalization (US\$mm)	25,500	PV/Ebitda	6.4
Debt (US\$mm)	10,600	Undeveloped Reserves (%)	28
Enterprise Value (EV) (US\$mm)	36,100	Natural Gas and Oil Ebitda (US\$/boe)	38.00
Present Value (PV) (US\$mm)	46,200	Present Value Proven Reserves(US\$/boe)	22.90
Net Present Value (US\$/share)	50	Present Value Proven Reserves(US\$/mcfe)	3.82
Debt/Present Value	0.23	Earnings Next Twelve Months (US\$/sh)	3.17
McDep Ratio - EV/PV	0.78	Price/Earnings Next Twelve Months	11
Dividend Yield (%/year)	1.9	Indicated Annual Dividend (US\$/sh)	0.68
Note: Estimated cash flow and	earnings tied to on	e-year futures prices for oil and natural gas.	
Reported results may var	y widely from esti	mates. Estimated present value per share revised only infred	quently.
Estimated present value	presumes a long-te	rm price for oil of US\$90 a barrel and natural gas, \$6 a milli	on btu.
For historical research of	n Marathon since 2	2001 see http://www.mcdep.com/3mro.htm	

Summary and Recommendation

Buy recommended Marathon Oil (MRO) trades in a stock price uptrend, compared to the 200day average, toward estimated Net Present Value (NPV) of \$50 a share. Rising volumes of shale oil in each of the two leading shale oil plays, the Bakken in North Dakota and the Eagle Ford in South Texas, contribute to the rising interest in the stock. Bakken production is at 40,000 net barrels oil equivalent daily (boed) for 2013 and Eagle Ford is expected to average 85,000 boed for the current year. Only three months ago, MRO was looking for 37,000 boed in the Bakken. Vice President Howard Thill recounts in a June 25, 2013 presentation that four years ago MRO thought it might produce 25,000 boed from the North Dakota basin. Now the company expects more than twice that in 2017. Meanwhile, near month oil price is showing new life after we recently reduced NPV for Marathon and other oil producers to reflect a lowering of long-term oil price assumption to \$90 from \$100. We put more weight on the declining long-term price measured as the average of futures for each of the next 72 months than on the rising near month price, both judged against a 40-week or 200-day average. On July 8, six-year futures settled at \$86 a barrel compared to the 40 week average of \$88 (see charts Six-Year Commodity Price Meter below and Six-Year and One-Year Futures on last page). The advent of shale oil both restrains the upside on oil price and restrains the downside by making the supply more elastic, or responsive, to price. Shale oil is a good thing and Marathon is alert to be well-represented. (For models for Marathon see tables <u>Present Value</u> on page 2 and <u>Operating and Financial Estimates</u> on page 3. For valuation perspective, see Marathon among U.S. Independent Producers in <u>Tables</u> 1-4 on pages 4-7).

Kurt H. Wulff, CFA





Marathon Oil Corporation										
Functional Cash Flow and Present Value										
	NTM	Adjusted	PV/	Present						
	<u>Ebitda</u>	<u>R/P</u>	<u>Ebitda</u>	<u>Value</u>						
North American Natural Gas	280	6.4	13.2	3,700	8%					
Rest of World Natural Gas	260	6.9	6.2	1,600	3%					
Oil	6,230	6.1	5.8	35,900	78%					
Synthetic Crude Oil	480	34	10.4	5,000	11%					
	7,250	9.1	6.4	46,200	100%					
Debt					10,600					
Net Present Value (\$mm)					35,600					
Shares					712					
Net Present Value - Standard Estimate (US\$/sh)					50					
NPV Approximation by Cash Flow Multiple Dep	ending on	Reserve Life	(US\$/sh)		46					



			Marath	on Oil Co	rporation					
	N	lext Twelve	Months ()perating	and Finan	cial Estima	ates			
										Next
										Twelve
	Q2	Year	Q1	Q2E	Q3E	Q4E	Year	Q1E	Q2E	Months
	6/30/12	2012	3/31/13	6/30/13	9/30/13	12/31/13	2013E	3/31/14	6/30/14	6/30/14
Volume										
Natural Gas (mmcfd)										
U.S. (or North America)	319	358	340	340	340	340	340	340	340	340
Overseas (or Int'l)	501	544	568	568	568	568	568	568	568	568
Total	820	903	908	908	908	908	908	908	908	908
Days	91	366	90	91	92	92	365	90	91	365
Oil (mmb)	29	120	33	34	34	34	136	33	34	136
Oil (mbd)	314	329	372	372	372	372	372	372	372	372
Total gas & oil (mbd))	451	479	523	523	523	523	523	523	523	523
Price										
Natural gas (\$/mcf)										
Henry Hub (\$/mmbtu)	2.21	2.79	3.34	4.10	3.74	3.85	3.76	4.04	3.94	3.89
U.S. (or North America)	3.42	3.91	3.86	4.74	4.33	4.46	4.35	4.67	4.56	4.50
Overseas (or Int'l)	2.25	2.29	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57
Total	2.71	2.93	3.05	3.38	3.23	3.28	3.24	3.36	3.32	3.29
Oil (\$/bbl)										
WTI Cushing	93.32	94.16	94.41	94.22	103.02	100.47	98.03	96.78	94.59	98.72
Worldwide	95.22	96.91	95.72	95.53	104.45	101.86	99.42	98.12	95.90	100.10
Total gas & oil (\$/mcf)	11.88	12.00	12.22	12.30	13.31	13.01	12.71	12.59	12.32	12.81
Revenue (\$mm)										
Natural Gas										
U.S. (or North America)	99	513	118	147	135	139	539	143	141	559
Overseas (or Int'l)	103	456	131	133	134	134	533	131	133	533
Total	202	970	249	279	270	274	1,072	274	274	1,092
Oil	2,721	11,667	3,205	3,234	3,575	3,486	13,499	3,285	3,246	13,592
Other	861	3,585	652	5,25.	5,575	2,.00	652	5,205	2,2.0	10,0,2
Total	3,784	16,221	4,106	3,513	3,844	3,760	15,223	3,559	3,520	14,684
Expense	2,330	10,120	2,263	1,778	1,946	1,903	7,891	1,802	1,782	7,433
Ebitda (\$mm)	1,454	6,101	1,843	1,735	1,898	1,856	7,332	1,758	1,738	7,250
Exploration	173	729	465	125	125	125	840	125	125	500
Deprec., Deplet., & Amort.	580	2,478	747	747	747	747	2,988	747	747	2,988
Ebit	701	2,894	631	863	1,026	984	3,504	886	866	3,762
Interest	57	219	72	72	72	72	288	72	72	288
Ebt	644	2,675	559	791	954	912	3,216	814	794	3,474
Income Tax	225	936	196	277	334	319	1,126	285	278	1,216
Net Income (\$mm)	418	1,739	363	514	620	593	2,090	529	516	2,258
Shares (millions)	709	710	712	712	712	712	712	712	712	712
Per share (\$)	0.59	2.45	0.51	0.72	0.87	0.83	2.94	0.74	0.73	3.17
Ebitda Margin (E&P)	50%	48%	53%	49%	49%	49%	50%	49%	49%	49%
Tax Rate	35%	35%	35%	35%	35%	35%	35%	35%	35%	35%



				Table	1					
	McDep Large Cap Energy Stocks									
Enterprise Value, Business Segments and McDep Ratio										
						Prese	nt Value by	Seamen	rt (%)	
			Price			North	Rest	beginen		
			(US\$/sh)	EV/	Enterprise	Amer.				
S	vmbol/Rati	ino	8-Jul	Market	Value	Natural	Natural	Oil	Down-	McDei
B = Buy, C		- 0		Сар	(\$mm)	Gas	Gas	Prod'n		Ratio
Global Integrated										
Exxon Mobil Corporation	XOM	В	92.25	1.19	494,000	7	19	54	20	0.92
Chevron Corporation	CVX		121.24	1.15	270,000	4	11	72	13	0.83
PetroChina Company Ltd (14%)			113.94	1.55	45,300		13	79	8	0.81
Royal Dutch Shell plc	RDS-A	Н	63.87	1.35	272,000	4	22	55	19	0.70
Petrobras	PBR	Н	12.13	2.33	184,000		7	80	13	0.69
Total S.A.	TOT	Н	49.00	1.39	154,000		22	61	17	0.69
Lukoil Oil Company	LUKOY	CB	57.73	1.07	47,800			75	25	0.44
Gazprom (50%)	OGZPY	Н	6.83	1.49	58,000		14	19	66	0.44
Total or Median				1.37	1,525,000			66	18	0.70
U.S. Independent										
EOG Resources, Inc.	EOG	Η	139.76	1.17	44,300	22	3	75	-	0.89
Occidental Petroleum Corp.	OXY	Η	90.84	1.14	83,200	8	1	80	11	0.86
Marathon Oil Corporation	MRO	В	35.83	1.41	36,100	9	4	87	-	0.78
ConocoPhillips	COP	Н	63.04	1.45	111,000	14	12	74	-	0.71
Devon Energy Corporation	DVN	CB	54.82	1.47	32,800	52		48	-	0.69
Total or Median				1.41	307,000	14		75		0.78
Canada/Norway/Australia										
Woodside Petroleum Ltd.	WOPEY	Η	33.10	1.20	33,000		63	37	-	0.85
Imperial Oil Limited (30%)	IMO	CB	39.56	1.27	12,800	2		79	19	0.80
Cenovus Energy Inc.	CVE	Н	29.10	1.33	29,400	13		67	20	0.75
EnCana Corporation	ECA	Η	16.97	1.73	21,700	84		16	-	0.69
Statoil ASA (33%)	STO		20.76	1.58	34,500		33	67	-	0.66
Canadian Oil Sands Limited	COSWF	Η	19.65	1.24	11,800			100	-	0.63
Suncor Energy	SU	CB	29.92	1.32	60,000	2		77	21	0.60
Total or Median				1.32	203,000			67		0.69
CB=Contrarian Buy, Stock Price										
Estimated present value presume							gas, \$6 a mi	llion btu.		
McDep Ratio = \mathbf{M} arket \mathbf{c} ap and							, , ,			



			Table 2	2				
	McDep	Lar	ge Cap	Energy	Stocks			
N	et Pres	ent `	Value ar	nd McD	ep Ratio			
			Price			Net		
			(US\$/sh)		Market	Present	Debt/	
	Symbol/R		8-Jul	Shares	Сар	Value	Present	МсДер
B = Buy,	CB (see b	elow)	2013	(mm)	(US\$mm)	(US\$/sh)	Value	Ratio
Global Integrated								
Exxon Mobil Corporation	XOM	В	92.25	4,485	414,000	102.00	0.15	0.92
Chevron Corporation	CVX	Н	121.24	1,944	236,000	150.00	0.11	0.83
PetroChina Company Ltd (14%)	PTR	Н	113.94	256	29,200	155.00	0.29	0.81
Royal Dutch Shell plc	RDS-A	Н	63.87	3,157	202,000	100.00	0.18	0.70
Petrobras	PBR	Н	12.13	6,522	79,100	25.00	0.39	0.69
Total S.A.	TOT	Н	49.00	2,269	111,000	80.00	0.19	0.69
Lukoil Oil Company	LUKOY	СВ	57.73	776	44,800	135.00	0.03	0.44
Gazprom (50%)	OGZPY	Н	6.83	5,735	39,200	20.00	0.14	0.44
Total or Median				,	1,155,000		0.17	0.70
U.S. Independent								
EOG Resources, Inc.	EOG	Н	139.76	272	38,000	160.00	0.13	0.89
Occidental Petroleum Corp.	OXY	Н	90.84	805	73,100	108.00	0.10	0.86
Marathon Oil Corporation	MRO	В	35.83	712	25,510	50.00	0.23	0.78
ConocoPhillips	COP	Н	63.04	1,215	77,000	100.00	0.22	0.71
Devon Energy Corporation	DVN	CB	54.82	406	22,300	92.00	0.22	0.69
Total or Median					235,900		0.22	0.78
Canada/Norway/Australia								
Woodside Petroleum Ltd.	WOPEY	Н	33.10	820	27,100	40.00	0.14	0.85
Imperial Oil Limited (30%)	IMO	CB	39.56	255	10,100	52.00	0.17	0.80
Cenovus Energy Inc.	CVE	Н	29.10	758	22,100	42.00	0.19	0.75
EnCana Corporation	ECA	Н	16.97	736	12,500	30.00	0.29	0.69
Statoil ASA (33%)	STO	Н	20.76	1,050	21,800	38.00	0.24	0.66
Canadian Oil Sands Limited	COSWF	Н	19.65	485	9,500	34.00	0.12	0.63
Suncor Energy	SU	CB	29.92	1,521	45,500	56.00	0.15	0.60
Total or Median					149,000		0.17	0.69
CB=Contrarian Buy, Stock Price ma Estimated present value presumes a							illion btu.	
McDep Ratio = Market cap and Deb		-				<u> </u>		



			Table 3							
\mathbf{M}_{0}	cDep L	arg	e Cap I	Energy S	tocks					
Value Multiples and Dividend Yield										
			Price	Adjustd						
			(US\$/sh)	Resrvs/	PV/	EV/		Dividend		
S	ymbol/Rat	ting	8-Jul	Prod	Ebitda	Ebitda	P/E	NTM		
B = Buy, C	B (see bel	ow)	2013	NTM	NTM	NTM	NTM	(%)		
Clabal Integrated										
Global Integrated Exxon Mobil Corporation	XOM	В	92.25	13.3	7.0	6.4	11	2.7		
PetroChina Company Ltd (14%)	PTR	Н	113.94	13.3	6.5	5.3	10	4.1		
Chevron Corporation	CVX	Н	121.24	9.1	5.9	4.9	9	2.5		
Petrobras	PBR	Н	121.24	11.1	6.5	4.9	4	3.9		
Royal Dutch Shell plc	RDS-A	Н	63.87	9.6	6.1	4.3	7	5.6		
Total S.A.	TOT	Н	49.00	9.4	5.8	4.0	7	6.2		
Lukoil Oil Company	LUKOY	CB	57.73	15.9	5.4	2.4	4	4.7		
Gazprom (50%)	OGZPY	Н	6.83	31.0	4.4	1.9	2	5.3		
Median	OOZF I	11	0.63	11.8	6.0	4.4	7	4.4		
U.S. Independent				11.0	0.0	7.7	/	7.7		
Devon Energy Corporation	DVN	СВ	54.82	10.2	9.6	6.6	15	1.2		
Occidental Petroleum Corp.	OXY	Н	90.84	10.2	6.8	5.8	13	2.8		
EOG Resources, Inc.	EOG	Н	139.76	8.0	6.5	5.8	18	0.5		
ConocoPhillips	COP	Н	63.04	11.7	7.6	5.4	10	4.2		
Marathon Oil Corporation	MRO	В	35.83	9.1	6.4	5.0	11	1.9		
Median	WING	-	33.03	10.2	6.8	5.8	13	1.9		
Canada/Norway/Australia				10.2	0.0	5.0	13	1.7		
Imperial Oil Limited (30%)	IMO	СВ	39.56	21.8	9.8	7.8	10	1.1		
EnCana Corporation	ECA	Н	16.97	6.7	11.1	7.7	10	4.7		
Woodside Petroleum Ltd.	WOPEY	_	33.10	9.6	8.2	7.0	15	3.9		
Cenovus Energy Inc.	CVE	Н	29.10	13.4	8.3	6.3	17	3.1		
Canadian Oil Sands Limited	COSWF	Н	19.65	20.1	9.8	6.2	10	6.7		
Suncor Energy	SU	СВ	29.92	15.8	7.7	4.7	8	1.9		
Statoil ASA (33%)	STO	Н	20.76	6.2	5.5	3.6	6	5.3		
Median				13.4	8.3	6.3	10	3.9		
CB=Contrarian Buy, Stock Price may be										
EV = Enterprise Value = Market Cap and						eciation				
and amortization; NTM = Next Twelve M				4; P/E = Sto	ock Price to					
Earnings; PV = Present Value of oil and	gas and oth	ner bu	usinesses							



			Table	e 4						
McDep Large Cap Energy Stocks										
Total	Total Return and Enterprise Value Momentum									
Total	IXCUII	i aiiu	Differ	ise va	iuc mio	1110110	um			
				F						
			D	Equity						
			Price	Total		F	X Z I	,		
	C1 1		(\$/sh)	Return	52Wk		se Value/		М.Д.	
	Symbol	Rating	8-Jul 2013	(%)	High	52Wk Low	50 Day Avg.	200 Day Avg.	McDep Ratio	
	1	xaiing	2013	(70)	nign	LOW	Avg.	Avg.	Kanc	
Global Integrated										
Chevron Corporation	CVX	Н	121.24	14	0.96	1.17	1.00	1.04	0.83	
Exxon Mobil Corporation	XOM	В	92.25	8	0.99	1.09	1.02	1.02	0.92	
Total S.A.	TOT	Н	49.00	(3)	0.91	1.12	0.99	0.98	0.69	
Royal Dutch Shell plc	RDS-A	Н	63.87	(5)	0.90	1.01	0.97	0.96	0.70	
Lukoil Oil Company	LUKOY	СВ	57.73	(14)	0.86	1.06	0.95	0.92	0.44	
PetroChina Company Ltd (14%)	PTR	Н	113.94	(19)	0.84	1.09	0.98	0.91	0.81	
Gazprom (50%)	OGZPY	Н	6.83	(30)	0.70	1.04	0.95	0.84	0.44	
Petrobras	PBR	Н	12.13	(36)	0.69	1.00	0.86	0.82	0.69	
Median				(10)	0.88	1.08	0.97	0.94	0.70	
U.S. Independent										
EOG Resources, Inc.	EOG	Н	139.76	16	0.98	1.46	1.06	1.11	0.89	
Occidental Petroleum Corp.	OXY	Н	90.84	20	0.96	1.22	1.00	1.07	0.86	
Marathon Oil Corporation	MRO	В	35.83	18	0.98	1.31	1.03	1.07	0.78	
ConocoPhillips	COP	Н	63.04	11	0.98	1.13	1.02	1.05	0.71	
Devon Energy Corporation	DVN	CB	54.82	7	0.90	1.05	0.99	0.99	0.69	
Median				16	0.98	1.22	1.02	1.07	0.78	
Canada/Norway/Australia										
Canadian Oil Sands Limited	COSWF	Н	19.67	(1)	0.88	1.08	1.01	0.97	0.63	
Suncor Energy	SU	CB	29.92	(9)	0.87	1.08	0.98	0.95	0.60	
Imperial Oil Limited (30%)	IMO	CB	39.56	(8)	0.83	1.05	1.01	0.95	0.80	
Woodside Petroleum Ltd.	WOPEY	Н	33.10	(4)	0.86	1.09	0.95	0.94	0.85	
Cenovus Energy Inc.	CVE	Н	29.10	(12)	0.83	1.05	0.99	0.93	0.75	
EnCana Corporation	ECA	Н	16.97	(13)	0.80	1.02	0.96	0.91	0.69	
Statoil ASA (33%)	STO	Н	20.76	(13)	0.83	1.02	0.95	0.90	0.66	
Median				(9)	0.83	1.05	0.98	0.94	0.69	
			_							
CB=Contrarian Buy, Stock Price	may be in	downtre	nd compar	ed to 200-c	lay averag	e. H = I	lold			

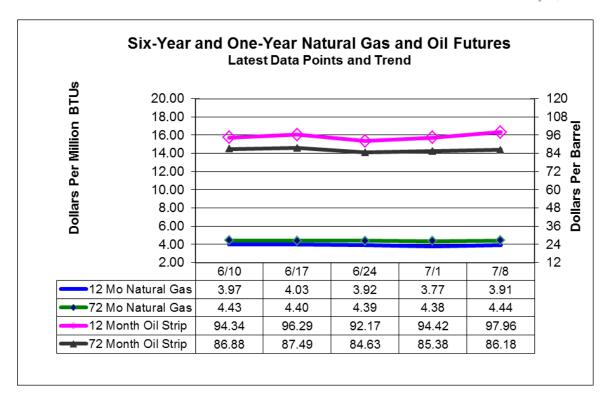


		Index of	Recent Research
Stock	Idoos		
		G 1: .	m.
<u>Date</u>	Symbol LINE	Subject	Theme
5-Jul	LINE	Linn Energy	Stock Undervalued while SEC Probes (Income and Small Cap Weekly)
21-Jun		Range Resources	Superlatives (Income and Small Cap Weekly)
18-Jun	SU	Suncor Energy	Conservative Growth and Income (Meter Reader)
14-Jun	SJT	San Juan Basin Royalty Trust	First Mancos Frac Flows 30% Oil (Income and Small Cap Weekly)
11-Jun	XOM	Exxon Mobil	5% a Year Growth per Share (Meter Reader)
7-Jun	XEC	Cimarex Energy	Uncovering Culberson Value (Income and Small Cap Weekly)
4-Jun	DVN	Devon Energy	Natural Gas Strength, Oil Growth (Meter Reader)
31-May		Hugoton Royalty Trust	Beating the Bear (Income and Small Cap Weekly)
	LUKOY	Lukoil	20% Dividend Increase (Meter Reader)
	BIREF	Birchcliff Energy	Small Cap North American Natural Gas (Income and Small Cap Weekly)
21-May		Imperial Oil	Timely on Bitumen Price (Meter Reader)
	DMLP	Dorchester Minerals, L.P.	U.S. Oil Ascending (Income and Small Cap Weekly)
14-May		EOG Resources	Raise NPV to \$180 on More Big Wells (Meter Reader)
10-May	CLR	Continental Resources	Raise NPV to \$110 from \$100 on Oil Growth (ISCW)
7-May		Royal Dutch Shell plc	Raise NPV to \$110 a Share from \$102 (Meter Reader)
3-May	NDRO	Enduro Royalty Trust	RTF Stock for Permian Oil (Income and Small Cap Weekly)
30-Apr		Total	Recovery Potential (Meter Reader)
26-Apr	WLL	Whiting Petroleum	Synergistic Fracker (Income and Small Cap Weekly)
23-Apr	COSWF	Canadian Oil Sands Limited	Long-Term Oil Investment (Meter Reader)
19-Apr	HK	Halcón Resources	Fourth Core Area - El Halcón ('The Hawk') (Inc. and Small Cap Wkly)
16-Apr	CVX	Chevron	Deflation Resistance (Meter Reader)
12-Apr	MTR	Mesa Royalty Trust	RTF Stealth Play on Long-Life Natural Gas (Income and Small Cap Wkl
9-Apr	MRO	Marathon Oil	Oil Shale and Global Exploration (Meter Reader)
5-Apr	SBR	Sabine Royalty Trust	Accelerating Volume Growth (Income and Small Cap Weekly)
2-Apr	OXY	Occidental Petroleum	Six-Year Oil Price Returns to Uptrend (Meter Reader)
28-Mar	PEYUF	Peyto Exploration and Developr	nen Raise NPV to \$32 for Fracking Winner (Income and Small Cap Weekly)
15-Mar	CRT	Cross Timbers Royalty Trust	San Juan Basin Gem (Income and Small Cap Weekly)
1-Mar	ERF	Enerplus Corporation	Back on Track, Discontinue Buy (Income and Small Cap Weekly)
21-Feb	BRY	Berry Petroleum	Linn Energy to Acquire Berry for McDep Ratio of 0.77
19-Feb	ECA	Encana Corporation	Survived the Downside, Ready for the Upside (Meter Reader)
5-Feb	COP	ConocoPhillips	Raise NPV to \$105 from \$96 on Performance (Meter Reader)
22-Jan	WOPEY	Woodside Petroleum, Ltd.	Politically-Secure, Clean Fuel Supplier (Meter Reader)
11-Jan	PDCE	PDC Energy	Mancos (Niobrara) Winner (Income and Small Cap Weekly)
28-Dec	FRHLF	Freehold Royalties Ltd.	Advantaged Ride on North American Oil Growth (ISCW)
	For historical		click on Stock Ideas, click on stock by name.
Meter	Reader		
2-Jul			Large Cap Oil and Gas Strategy
25-Jun			Reduce Long-Term Oil Price to \$90 a Barrel
18-Jun	SU	Suncor Energy	Conservative Growth and Income
11-Jun	XOM	Exxon Mobil	5% a Year Growth per Share
		tions, go to mcdep.com, click on Me	
Incom	e and Small Ca	np Weekly	
5-Jul	LINE	Linn Energy	Stock Undervalued while SEC Probes
28-Jun		<u> </u>	Innovators Profiting from Shale Oil at \$90 a Barrel
21-Jun	RRC	Range Resources	Superlatives
14-Jun	SJT	San Juan Basin Royalty Trust	First Mancos Frac Flows 30% Oil
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A Weekly Analysis of Large Cap Oil and Gas Stocks July 9, 2013



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