

Healthy Business CVX, RDS, SU, XOM

		Price (US\$/sh)	Market Cap	Enterprise Value (\$mm)	EV/ Market Cap	EV/ Ebitda NTM	PV/ Ebitda NTM	Prod'n/ Ebitda (%)	Oil Yield NTM (%)	Dist. McDep Ratio (EV/PV)
	Symbol/Rating	2-Nov 2018								
Exxon Mobil Corporation	XOM	81.95	350,000	440,000	1.26	7.8	8.4	50	4.0	0.93
Chevron Corporation	CVX	114.73	220,000	280,000	1.27	6.1	7.5	61	3.9	0.81
Suncor Energy	SU	33.56	55,000	73,000	1.34	5.8	7.9	76	3.3	0.73
Royal Dutch Shell	RDS-B	64.38	269,000	386,000	1.43	6.6	9.1	50	5.8	0.72
Total or Median			894,000	1,179,000	1.31	6.3	8.1	56	4.0	0.77

Summary and Recommendation

Favorable third quarter results disclosed on November 1-2 support a positive investment outlook for integrated oil companies **Chevron (CVX)**, **ExxonMobil (XOM)**, **Royal Dutch Shell (RDS)** and **Suncor (SU)**. Median McDep Ratio of 0.77 signals 30% more unlevered value to be realized for Enterprise Value to reach Present Value corresponding to a long-term oil price of \$70 a barrel. Earnings per share gains compared to the second quarter ranged from 20% for RDS to 59% for XOM (see chart EPS on page 2). Unlevered cash flow (Ebitda) gains from the previous quarter ranged from 8% for RDS to 31% for CVX (see chart Ebitda Total on page 2).

- CVX scored a positive surprise, helped in part by a 21% reduction in upstream costs (see chart Operating Expense on page 3). The company's current rate of cash generation, if sustained, may support an increase in Net Present Value (NPV) from our current estimate of \$150 a share.
- XOM reported the strength in operating results we had expected after disappointing investors the first two quarters this year. The gratifying numbers helped XOM stock performance turn from worst among peers to best among peers year-to-date. Downstream assisted with a 29% increase in cash flow added per barrel of upstream production (see chart Downstream Value Added on page 3).
- RDS looks promising, too, though the valuation advantage versus CVX, for example, may fall within the margin of error.
- SU performs well operationally despite a sharper decline in stock price recently.

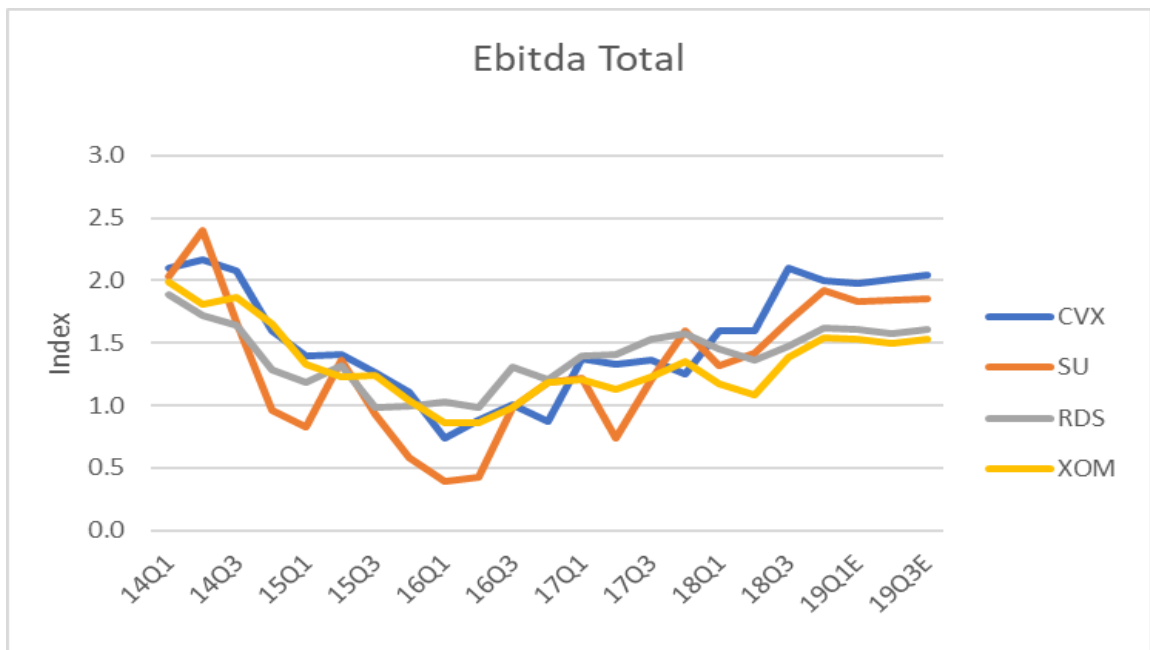
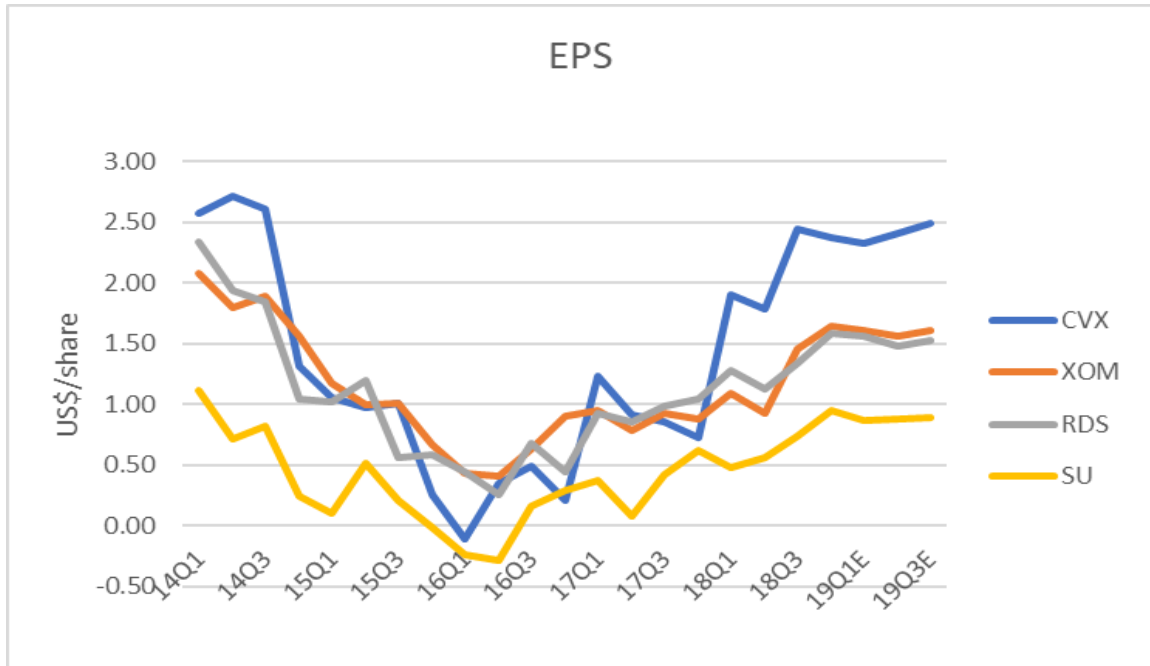
Meanwhile, quarterly detail is summarized in condensed models (see Next Twelve Months Operating and Financial Results on pages 4-5). We have optimistic expectations for each of the four integrated stocks as well as others in our coverage (see Tables 1-4 on pages 6-9).

Kurt H. Wulff, CFA



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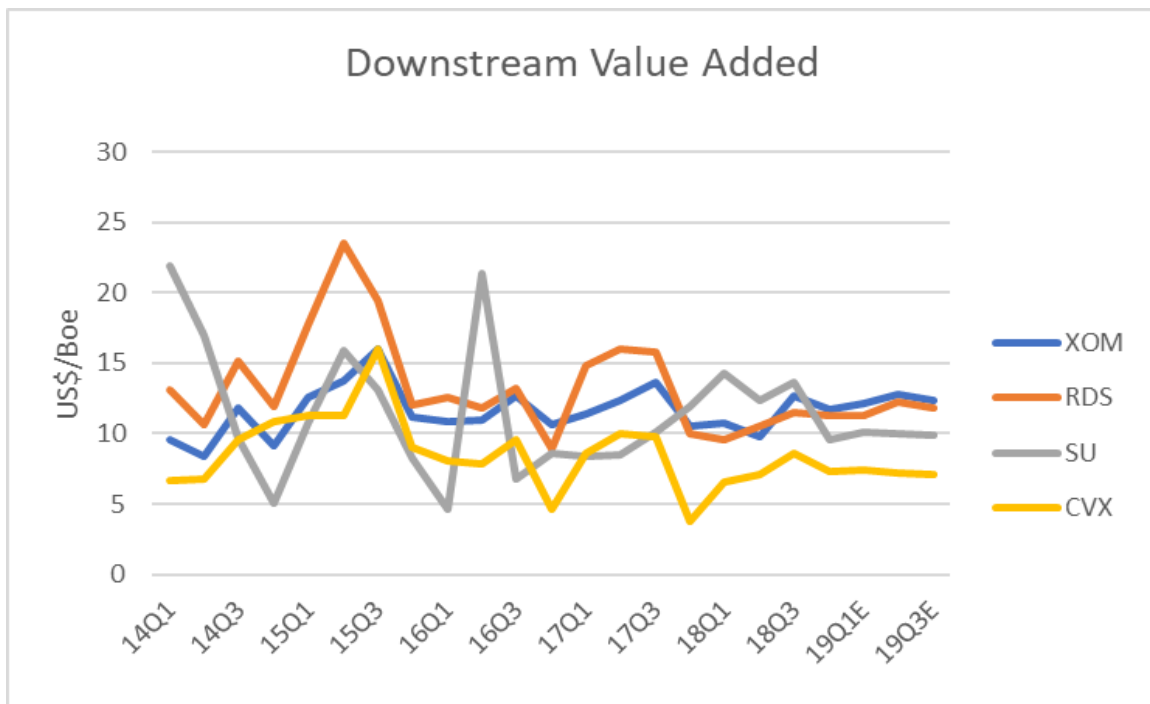
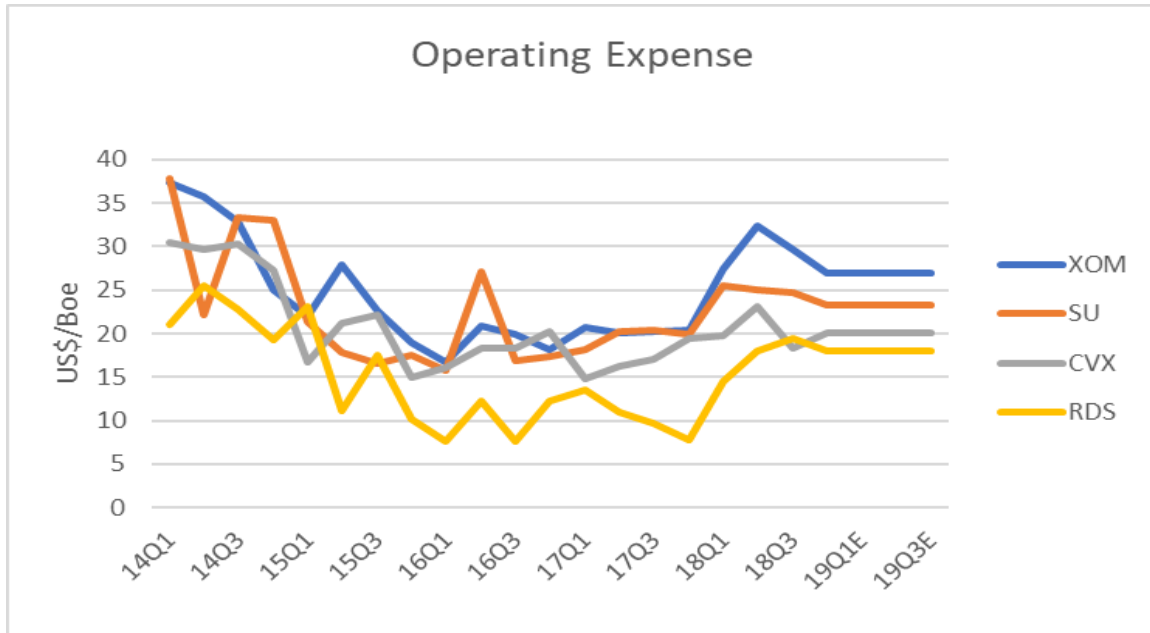
Analysis of Oil and Gas Stocks
November 5, 2018





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Chevron										
Next Twelve Months Operating and Financial Estimates										
	Q3	Year	Q2	Q3	Q4E	Year	Q1E	Q2E	Q3E	Next Twelve Months
	9/30/17	2017	6/30/18	9/30/18	12/31/18	2018	3/31/19	6/30/19	9/30/19	9/30/19
Volume (barrels oil equivalent)										
Daily (mboed)	2,717	2,728	2,864	2,956	2,983	2,919	3,012	3,040	3,068	3,026
Period (mmboe)	250	996	261	272	274	1,065	271	277	282	1,104
Price (US\$/boe)	38.57	39.62	51.46	54.26	54.58	52.34	54.61	54.63	54.66	54.62
Expense (US\$/boe)	17.03	16.90	23.20	18.33	20.00	20.31	20.00	20.00	20.00	20.00
Ebitda - Production (US\$/boe)	21.54	22.72	28.26	35.93	34.58	32.04	34.61	34.63	34.66	34.62
Downstream VA (US\$/boe)	9.78	8.02	7.10	8.60	7.29	7.41	7.38	7.23	7.08	7.24
Ebitda - Total										
Unit (US\$/boe)	31.32	30.74	35.36	44.53	41.87	39.45	41.98	41.86	41.74	41.86
Period (US\$m)	7,827	30,610	9,216	12,108	11,491	42,022	11,379	11,580	11,783	46,234
Deprec, Deplet, Amort, Other	5,348	19,783	4,675	6,005	5,550	20,677	5,550	5,550	5,550	22,200
Ebit (US\$m)	2,479	10,827	4,541	6,103	5,941	21,345	5,829	6,030	6,233	24,034
Interest										
Ebt (US\$m)	2,479	10,827	4,324	5,921	5,759	20,605	5,647	5,848	6,051	23,306
Income Tax	868	3,789	908	1,243	1,209	4,327	1,186	1,228	1,271	4,894
Net Income (US\$m)										
Exploration and Production	873	5,096	3,348	4,351		-				
Other	1,124	3,469	794	1,030		-				
Unallocated	(385)	(1,528)	(726)	(704)		-				
Total	1,612	7,037	3,416	4,677	4,550	16,278	4,461	4,620	4,781	18,412
Shares (millions)	1,896	1,897	1,919	1,917	1,917	1,917	1,917	1,917	1,917	1,917
Earnings Per Share (US\$)	0.85	3.71	1.78	2.44	2.37	8.49	2.33	2.41	2.49	9.60
Dividend (US\$/share)	1.08	4.32	1.12	1.12	1.12	4.48	1.12	1.12	1.12	4.48
Present Value (US\$m)	320,370		348,209	347,909	347,909		347,909	347,909	347,909	347,909
Debt (US\$m)	64,410		60,359	60,359	60,359		60,359	60,359	60,359	60,359
Net Present Value (US\$m)	255,960		287,850	287,550	287,550		287,550	287,550	287,550	287,550
NPV (US\$/share)	135		150	150	150		150	150	150	150

Exxon Mobil Corporation										
Next Twelve Months Operating and Financial Estimates										
	Q3	Year	Q2	Q3	Q4E	Year	Q1E	Q2E	Q3E	Next Twelve Months
	9/30/17	2017	6/30/18	9/30/18	12/31/18	2018	3/31/19	6/30/19	9/30/19	9/30/19
Volume (barrels oil equivalent)										
Daily (mboed)	3,878	3,985	3,648	3,786	4,077	3,850	4,023	3,792	3,873	3,941
Period (mmboe)	357	1,454	332	348	375	1,405	362	345	356	1,438
Price (US\$/boe)	38.60	39.69	52.93	53.98	53.44	52.05	53.87	54.51	54.43	54.05
Expense (US\$/boe)	20.26	20.38	32.47	29.74	27.00	29.10	27.00	27.00	27.00	27.00
Ebitda - Production (US\$/boe)	18.34	19.31	20.47	24.24	26.44	22.96	26.87	27.51	27.43	27.05
Downstream VA (US\$/boe)	13.60	11.98	9.79	12.63	11.73	11.24	12.15	12.75	12.35	12.24
Ebitda - Total										
Unit (US\$/boe)	31.93	31.28	30.25	36.87	38.17	34.19	39.03	40.26	39.78	39.29
Period (US\$m)	11,392	45,502	10,042	12,843	14,319	48,056	14,130	13,893	14,172	56,513
Deprec, Deplet, Amort, Other	5,170	21,712	4,921	4,950	5,450	20,078	5,450	5,450	5,450	21,800
Ebit (US\$m)	6,222	23,790	5,121	7,893	8,869	27,978	8,680	8,443	8,722	34,713
Interest	111	601	147	-	-	351	-	-	-	-
Ebt (US\$m)	6,111	23,189	4,974	7,893	8,869	27,627	8,680	8,443	8,722	34,713
Income Tax	2,139	8,116	1,045	1,658	1,862	5,802	1,823	1,773	1,832	7,290
Net Income (US\$m)										
Exploration and Production	1,567	7,521	3,040	4,229		-				
Other	2,624	9,168	1,614	2,355		-				
Unallocated	(219)	(1,616)	(725)	(348)		-				
Total	3,972	15,073	3,929	6,236	7,006	21,825	6,857	6,670	6,890	27,423
Shares (millions)	4,271	4,258	4,271	4,271	4,271	4,271	4,271	4,271	4,271	4,271
Earnings Per Share (US\$)	0.93	3.54	0.92	1.46	1.64	5.11	1.61	1.56	1.61	6.42
Dividend (US\$/share)	0.77	3.06	0.82	0.82	0.82	3.28	0.82	0.82	0.82	3.28
Present Value (US\$m)	518,871		474,520	474,520	474,520		474,520	474,520	474,520	474,520
Debt (US\$m)	91,771		90,130	90,130	90,130		90,130	90,130	90,130	90,130
Net Present Value (US\$m)	427,100		384,390	384,390	384,390		384,390	384,390	384,390	384,390
NPV (US\$/share)	100		90	90	90		90	90	90	90



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Analysis of Oil and Gas Stocks

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Royal Dutch/Shell										
Next Twelve Months Operating and Financial Estimates										
	Q3	Year	Q2	Q3	Q4E	Year	Q1E	Q2E	Q3E	Next Twelve Months
	9/30/17	2017	6/30/18	9/30/18	12/31/18	2018	3/31/19	6/30/19	9/30/19	9/30/19
Volume (barrels oil equivalent)										
Daily (mboed)	3,597	3,604	3,385	3,537	3,859	3,638	3,942	3,601	3,666	3,767
Period (mmboe)	331	1,315	308	325	355	1,328	355	328	337	1,375
Price (US\$/boe)	36.31	37.48	48.03	49.41	48.41	47.46	48.17	49.80	49.65	48.98
Expense (US\$/boe)	9.70	10.48	18.04	19.42	18.00	17.47	18.00	18.00	18.00	18.00
Ebitda - Production (US\$/boe)	26.61	27.01	29.99	29.98	30.41	29.98	30.17	31.80	31.65	30.98
Downstream VA (US\$/boe)	15.76	14.07	10.49	11.54	11.27	10.73	11.27	12.21	11.86	11.64
Ebitda - Total										
Unit (US\$/boe)	42.37	41.08	40.48	41.53	41.67	40.72	41.45	44.00	43.51	42.62
Period (US\$m)	14,021	54,032	12,468	13,513	14,796	54,064	14,704	14,421	14,674	58,594
Deprec, Deplet, Amort, Other	6,734	25,726	5,602	5,520	5,520	22,206	5,520	5,698	5,698	22,436
Ebit (US\$m)	7,287	28,306	6,866	7,993	9,276	31,858	9,184	8,723	8,976	36,158
Interest	1,011	4,042	929	909	909	3,683	909	909	909	3,636
Ebt (US\$m)	6,276	24,264	5,937	7,084	8,367	28,175	8,275	7,814	8,067	32,522
Income Tax	2,197	8,492	1,247	1,488	1,757	5,917	1,738	1,641	1,694	6,830
Net Income (US\$m)										
Exploration and Production	1,844	8,359	3,762	4,178		-				
Other	2,668	9,082	1,660	2,010		-				
Unallocated	(433)	(1,670)	(731)	(591)		-				
Total	4,079	15,771	4,691	5,597	6,610	22,258	6,537	6,173	6,373	25,692
Shares (millions)	4,163	4,150	4,188	4,177	4,177	4,182	4,177	4,177	4,177	4,177
Earnings Per Share (US\$)	0.98	3.80	1.12	1.34	1.58	5.32	1.57	1.48	1.53	6.15
Dividend (US\$/share)	0.94	3.76	0.94	0.94	0.94	3.76	0.94	0.94	0.94	3.76
Present Value (US\$m)	457,534		527,313	523,770	523,770		523,770	523,770	523,770	523,770
Debt (US\$m)	124,534		108,513	106,120	106,120		106,120	106,120	106,120	106,120
Net Present Value (US\$m)	333,000		418,800	417,650	417,650		417,650	417,650	417,650	417,650
NPV (US\$/share)	80		100	100	100		100	100	100	100

Suncor										
Next Twelve Months Operating and Financial Estimates										
	Q3	Year	Q2	Q3	Q4E	Year	Q1E	Q2E	Q3E	Next Twelve Months
	9/30/17	2017	6/30/18	9/30/18	12/31/18	2018	3/31/19	6/30/19	9/30/19	9/30/19
Volume (barrels oil equivalent)										
Daily (mboed)	740	685	662	744	870	742	840	840	840	848
Period (mmboe)	68	250	60	68	80	271	76	76	77	309
Price (US\$/boe)	45.52	47.73	60.18	60.06	61.86	59.35	61.52	61.52	61.52	61.61
Expense (US\$/boe)	25.44	25.29	32.43	32.01	30.54	31.74	30.54	30.54	30.54	30.54
Ebitda - Production (US\$/boe)	20.08	22.44	27.75	28.06	31.32	27.60	30.98	30.98	30.98	31.07
Downstream VA (US\$/boe)	10.06	9.79	12.32	13.66	9.54	12.27	10.10	9.99	9.88	9.87
Ebitda - Total										
Unit (US\$/boe)	30.14	32.22	40.07	41.71	40.86	39.87	41.08	40.97	40.86	40.95
Period (US\$m)	2,052	8,060	2,414	2,855	3,270	10,799	3,106	3,132	3,158	12,667
Deprec, Deplet, Amort, Other	1,035	4,407	1,086	1,175	1,171	4,583	1,171	1,171	1,171	4,687
Ebit (US\$m)	1,017	3,653	1,329	1,680	2,099	6,216	1,934	1,960	1,986	7,980
Interest	29	167	161	157	156	579	156	156	156	623
Ebt (US\$m)	988	3,486	1,168	1,523	1,943	5,637	1,779	1,805	1,831	7,357
Income Tax	296	1,046	245	320	408	1,184	374	379	384	1,545
Net Income (US\$m)										
Exploration and Production	380	1,345	523	780		-				
Downstream	478	1,780	527	723		-				
Unallocated	(166)	(685)	(128)	(300)		-				
Total	691	2,440	922	1,203	1,535	4,453	1,405	1,426	1,446	5,812
Shares (millions)	1,662	1,662	1,641	1,628	1,628	1,633	1,628	1,628	1,628	1,628
Earnings Per Share (US\$)	0.42	1.47	0.56	0.74	0.94	2.73	0.86	0.88	0.89	3.57
Dividend (US\$/share)	0.26	1.02	0.28	0.28	0.27	1.11	0.27	0.27	0.27	1.10
Present Value (US\$m)	91,071		101,586	99,994	99,838		99,838	99,838	99,838	99,838
Debt (US\$m)	17,943		19,536	18,594	18,438		18,438	18,438	18,438	18,438
Net Present Value (US\$m)	73,128		82,050	81,400	81,400		81,400	81,400	81,400	81,400
NPV (US\$/share)	44		50	50	50		50	50	50	50

Table 1											
McDep Energy Stocks											
Ranked by McDep Ratio											
			Price						Oil	Dist.	
			(US\$/sh)	Market	Enterprise	EV/	EV/	PV/	Prod'n/	Yield	McDep
	Symbol/Rating	2-Nov	Cap	Value	Market	Ebitda	Ebitda	Ebitda	NTM	NTM	Ratio
		2018	(US\$mm)	(\$mm)	Cap	NTM	NTM	NTM	(%)	(%)	(EV/PV)
Integrated											
Exxon Mobil Corporation	XOM	81.95	350,000	440,000	1.26	7.8	8.4	50	4.0		0.93
Chevron Corporation	CVX	114.73	220,000	280,000	1.27	6.1	7.5	61	3.9		0.81
Suncor Energy	SU	33.56	55,000	73,000	1.34	5.8	7.9	76	3.3		0.73
Royal Dutch Shell	RDS-B	64.38	269,000	386,000	1.43	6.6	9.1	50	5.8		0.72
Total or Median			894,000	1,179,000	1.31	6.3	8.1	56	4.0		0.77
Large Independent											
Occidental Petroleum Corp.	OXY	68.31	52,400	66,100	1.26	6.9	7.5	71	4.6		0.93
ConocoPhillips	COP	67.84	80,000	100,000	1.26	6.2	7.0	77	1.8		0.88
EOG Resources, Inc.	EOG	102.35	59,600	66,600	1.12	6.4	7.9	90	0.9		0.81
Pioneer Natural Resources	PXD	146.90	25,100	27,700	1.10	6.2	8.2	94	0.2		0.75
Total or Median			217,100	260,400	1.19	6.3	7.7	84	1.3		0.84
Mid-Size Independent											
Hess Corporation	HES	56.35	16,800	25,900	1.55	8.3	8.1	90	1.8		1.02
Continental Resources	CLR	49.93	18,700	25,100	1.34	5.8	7.5	81	-		0.77
Cimarex Energy Company	XEC	80.74	7,700	9,300	1.21	5.6	9.1	85	0.9		0.62
Devon Energy Corporation	DVN	32.28	16,900	21,600	1.28	5.6	9.4	88	1.0		0.60
Marathon Oil Corporation	MRO	18.21	15,480	22,200	1.43	5.2	9.6	89	1.1		0.55
Total or Median			75,600	104,100	1.34	5.6	9.1	88	1.0		0.62
Small Independent											
California Resources	CRC	29.84	1,300	8,100	6.4	5.6	7.7	91	-		0.73
Range Resources	RRC	16.39	4,100	8,700	2.15	6.2	10.3	46	0.5		0.60
Whiting Petroleum Corporation	WLL	34.22	3,200	6,300	2.01	3.8	7.4	98	-		0.51
Birchcliff Energy Ltd.	BIREF	3.16	900	1,500	1.75	4.4	9.1	48	2.5		0.49
Total or Median			9,500	24,600	2.08	5.0	8.4	69	0.2		0.55
Income											
Dorchester Minerals, L.P.	DMLP	17.81	580	580	1.00	8.0	10.8	87	10.5		0.74
Permian Basin RT	PBT	7.40	350	350	1.00	11.1	15.0	80	9.0		0.74
Sabine Royalty Trust	SBR	36.52	530	530	1.00	11.2	15.4	66	8.9		0.73
San Juan Basin Royalty Trust	SJT	5.15	240	240	1.00	8.7	13.6	-	8.7		0.64
Cross Timbers Royalty Trust	CRT	14.86	90	90	1.00	8.3	14.0	38	9.8		0.59
Total or Median			1,790	1,790	1.00	8.7	14.0	66	9.0		0.73
EV = Enterprise Value = Market Cap and Debt; Ebitda = Earnings before interest, tax, depreciation, amort.											
Estimated Ebitda (cash flow) tied to one-year prices of US\$70 a barrel and \$3 a million btu. NTM = Next Twelve Months ending 9/30/19.											
Estimated Present Value (PV) presumes a long-term price for oil of US\$70 a barrel and natural gas, \$4.00 a million btu.											
McDep Ratio = Market cap and Debt to present value of oil and gas and other businesses. For historical research see www.mcdep.com											

Table 2										
McDep Energy Stocks										
Unlevered Cash Flow (Ebitda)										
Ranked by Total Ebitda										
			Price							
			(US\$/sh)		Upstream NTM			Down-	Total	
	Symbol/Rating	2-Nov	Volume	Price	Equiv.	Ebitda		stream	Ebitda	Distrib./
		2018	(mmboe)	(\$/boe)	Margin	(%)	(\$/boe)	Uplift	NTM	Ebitda
								(\$/boe)	(\$mm)	NTM
										Distrib. NTM
										(%)
										(\$/sh)
Integrated										
Royal Dutch Shell	RDS-B		64.38	1374	48.98	63	31.00	11.64	58,594	27
Exxon Mobil Corporation	XOM		81.95	1436	54.05	50	27.10	12.26	56,513	25
Chevron Corporation	CVX		114.73	1105	54.62	63	34.60	7.24	46,234	19
Suncor Energy	SU		33.56	309	61.61	50	31.07	9.87	12,667	14
Total or Median				4224	54.33	57	31.04	10.76	51,374	22
Large Independent										
ConocoPhillips	COP		67.84	485	54.41	61	33.40	0.00	16,207	9
EOG Resources, Inc.	EOG		102.35	290	48.45	74	35.95	0.00	10,443	5
Occidental Petroleum Corp.	OXY		68.31	258	47.60	58	27.60	9.29	9,531	25
Pioneer Natural Resources	PXD		146.90	134	45.99	72	33.30	0.00	4,475	1
Total or Median				1168	48.03	67	33.35	0.00	9,987	7
Mid-Size Independent										
Continental Resources	CLR		49.93	118	45.65	81	36.90	0.00	4,340	-
Marathon Oil Corporation	MRO		18.21	148	41.65	69	28.60	0.00	4,236	4
Devon Energy Corporation	DVN		32.28	199	34.04	57	19.40	0.00	3,863	4
Hess Corporation	HES		56.35	111	48.21	58	28.20	0.00	3,137	9
Cimarex Energy Company	XEC		80.74	85	29.37	66	19.40	0.00	1,643	4
Total or Median				661	41.65	66	28.20	0.00	3,863	4
Small Independent										
Whiting Petroleum Corporation	WLL		34.22	49	48.89	70	34.30	0.00	1,673	-
California Resources	CRC		29.84	49	56.79	51	29.20	0.00	1,444	-
Range Resources	RRC		16.39	141	21.68	46	10.00	0.00	1,413	1
Birchcliff Energy Ltd.	BIREF		3.16	23	19.94	75	14.90	0.00	337	6
Total or Median				262	35.29	61	22.05	0.00	1,428	1
Income										
Dorchester Minerals, L.P.	DMLP		17.81	2.47	41.41	70	29.04	0.00	72	84
Sabine Royalty Trust	SBR		36.52	1.73	32.89	83	27.36	0.00	47	100
Permian Basin RT	PBT		7.40	1.16	44.12	61	26.81	0.00	31	100
San Juan Basin Royalty Trust	SJT		5.15	3.99	13.93	49	6.89	0.00	27	76
Cross Timbers Royalty Trust	CRT		14.86	0.38	44.45	64	28.53	0.00	11	81
Total or Median				10	41.41	64	27.36	0.00	31	84
For historical research see www.mcdep.com										

Table 3
McDep Energy Stocks
Net Present Value Per Share

		<i>Price</i>				<i>Devel.</i>	<i>Undev/</i>	<i>Nat</i>	<i>Top</i>	<i>Net</i>
		<i>(US\$/sh)</i>				<i>Resrvs/</i>	<i>Devel.</i>	<i>Gas/</i>	<i>Line/</i>	<i>Present</i>
	<i>Symbol/Rating</i>	<i>2-Nov</i>	<i>Shares</i>	<i>Debt</i>	<i>P/E</i>	<i>Prod</i>	<i>Resrvs</i>	<i>Ebitda</i>	<i>Ebitda</i>	<i>Value</i>
		<i>2018</i>	<i>(mm)</i>	<i>(\$mm)</i>	<i>NTM</i>	<i>NTM</i>	<i>(%)</i>	<i>(%)</i>	<i>(%)</i>	<i>(US\$/sh)</i>
Integrated										
	Chevron Corporation	CVX	114.73	1,917	60,359	12	6.8	57	26	150.00
	Royal Dutch Shell	RDS-B	64.38	4,177	116,710	10	7.2	22	31	100.00
	Exxon Mobil Corporation	XOM	81.95	4,271	90,130	13	9.7	52	28	90.00
	Suncor Energy	SU	33.56	1,628	18,438	9	8.2	87		50.00
	<i>Median</i>					7.7	55			
Large Independent										
	Pioneer Natural Resources	PXD	146.90	171	2,600	17	6.7	9	6	200.00
	EOG Resources, Inc.	EOG	102.35	582	7,071	14	4.7	43	10	130.00
	ConocoPhillips	COP	67.84	1,173	20,375	11	7.2	31	23	80.00
	Occidental Petroleum Corp.	OXY	68.31	767	13,700	13	7.5	35	4	75.00
	<i>Median</i>					7.0	33			
Mid-Size Independent										
	Cimarex Energy Company	XEC	80.74	95	1,579	10	4.9	35	15	140.00
	Continental Resources	CLR	49.93	375	6,333	13	5.1	121	19	70.00
	Devon Energy Corporation	DVN	32.28	525	4,720	12	8.8	24	12	60.00
	Hess Corporation	HES	56.35	297	9,177		6.5	59	10	55.00
	Marathon Oil Corporation	MRO	18.21	850	6,712	15	6.1	60	11	40.00
	<i>Median</i>					6.1	59			
Small Independent										
	Whiting Petroleum Corporation	WLL	34.22	92	3,170	13	6.9	84	2	100.00
	California Resources	CRC	29.84	43	6,800		8.9	41	9	100.00
	Range Resources	RRC	16.39	247	4,657	13	9.9	83	54	40.00
	Birchcliff Energy Ltd.	BIREF	3.16	268	641	11	7.2	228	52	9.00
	<i>Median</i>					8.0	83			
Income										
	Sabine Royalty Trust	SBR	36.52	15	-	11	10.4	3	33	50.00
	Cross Timbers Royalty Trust	CRT	14.86	6	-	10	13.2	-	69	25.00
	Dorchester Minerals, L.P.	DMLP	17.81	32	-	13	6.5	-	16	24.00
	Permian Basin RT	PBT	7.40	47	-	11	6.8	-	17	10.00
	San Juan Basin Royalty Trust	SJT	5.15	47	-	11	10.5	-	100	8.00
	<i>Median</i>					10.4				
P/E = Stock Price to Earnings. For historical research see www.mcdep.com .										

Table 4									
McDep Energy Stocks									
Total Return Year-to-Date 2018									
Ranked by Unlevered Total Return									
		Price (\$/sh)	Price (\$/sh)	Price Change	Cash Distrib.	Equity Total Return	Unlevered Total Return		
	Symbol/Rati	2-Nov 2018	29-Dec 2017	(%)	(%)	(%)	Debt (\$/sh)	(%)	McDep Ratio
Integrated									
	XOM	81.95	83.64	(2)	3	1	21	1	0.93
	RDS-B	64.38	68.29	(6)	4	(2)	28	(1)	0.72
	CVX	114.73	125.19	(8)	3	(6)	31	(5)	0.81
	SU	33.56	36.72	(9)	2	(6)	11	(5)	0.73
	<i>Median</i>			(7)		(4)		(3)	0.77
Large Independent									
	COP	67.84	54.89	24	2	25	17	19	0.88
	OXY	68.31	73.66	(7)	3	(4)	18	(3)	0.93
	EOG	102.35	107.91	(5)	0	(5)	12	(4)	0.81
	PXD	146.90	172.85	(15)	0	(15)	15	(14)	0.75
	<i>Median</i>			(6)		(4)		(4)	0.84
Mid-Size Independent									
	HES	56.35	47.47	19	2	20	31	12	1.02
	MRO	18.21	16.93	8	1	8	8	6	0.55
	CLR	49.93	52.97	(6)	-	(6)	17	(4)	0.77
	DVN	32.28	41.40	(22)	1	(21)	9	(18)	0.60
	XEC	80.74	122.01	(34)	0	(33)	17	(29)	0.62
	<i>Median</i>			(6)		(6)		(4)	0.62
Small Independent									
	WLL	34.22	26.48	29	-	29	34	13	0.51
	CRC	29.84	19.44	53	-	53	159	6	0.73
	RRC	16.39	17.06	(4)	0	(4)	19	(2)	0.60
	BIREF	3.16	3.50	(10)	2	(8)	2	(5)	0.49
	<i>Median</i>			13		13		2	0.55
Income									
	DMLP	17.81	15.20	17	9	26	-	26	0.74
	CRT	14.86	14.69	1	7	8	-	8	0.59
	PBT	7.40	8.87	(17)	5	(12)	-	(12)	0.74
	SBR	36.52	44.60	(18)	5	(13)	-	(13)	0.73
	SJT	5.15	8.24	(38)	3	(34)	-	(34)	0.64
	<i>Median</i>			(17)		(12)		(12)	0.73
	<i>Grand Median</i>			(6)		(5)		(4)	0.73
Natural Gas (\$/mmbtu)									
		3.29	2.95	12					
Oil - West Texas Intermediate (\$/bbl)									
		62.87	60.09	5					
	VTI	139.56	137.25	2	1	3			
	VEA	40.18	44.86	(10)	2	(8)			
	VWO	39.36	45.91	(14)	2	(12)			
	VT	70.85	74.26	(5)	2	(3)			
Source: McDep LLC, Yahoo, CME Group, Bloomberg									
For historical research see www.mcdep.com									



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