Deloitte Resource Evaluation & Advisory Canadian Domestic Forecast Base Case Forecast Effective September 30 2015

_					Od- Oil D							National	N== 1 !===!a	la Batataa		National Car	Database					O. da barra
					Crude Oil P	ricing							as Liquid on Par Pric			Natural Gas	Pricing					Sulphur
												Edinonic	ni Par Pric	ces		Alberta	Alberta	Alberta	B.C.			ł
					WTI at	WTI at			wcs	Bow River	Heavy Oil					Reference	AECO	AECO	Direct	NYMEX	NYMEX	ł
					Cushina		Edmonton	Edmonton	20.5 Deg. API	25 Deg. API	12 Deg. API				Pentanes +	Average	Average	Average	Stn. 2	Henry	Henry	Alberta
		Price	Cost	CAD to USD	Oklahoma	Oklahoma	City Gate	City Gate	Hardisty	Hardisty	Hardisty	Ethane	Propane	Butane		Price	Price	Price	Sales	Hub	Hub	Plant Gate
			Inflation	Exchange	US\$/bbl	US\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/bbl	C\$/mcf	C\$/mcf	C\$/mcf	C\$/mcf		US\$/Mcf	C\$/It
		Rate	Rate	Rate	Real	Current	Real	Current	Current	Current	Current	Current	Current	Current	Current	Current	Real	Current	Current	Real	Current	Current
н	2005	2.2%	2.2%	0.826	\$67.93	\$56.56	\$83.21	\$69.29	\$44.60	\$45.62	\$33.70	\$23.78	\$43.19	\$51.88	\$74.72	\$8.30	\$10.53	\$8.76	\$8.22	\$10.58	\$8.81	\$40.99
li	2006	2.0%	2.0%	0.882	\$77.51	\$66.02	\$86.04	\$73.28	\$51.22	\$51.90	\$39.53	\$19.83	\$44.07	\$58.16	\$78.18	\$6.56	\$7.68	\$6.54	\$6.58	\$7.92	\$6.75	\$19.53
s	2007	2.1%	2.1%	0.935	\$83.19	\$72.32	\$88.64	\$77.05	\$52.90	\$53.87	\$39.76	\$18.42	\$49.75	\$59.35	\$81.64	\$6.20	\$7.42	\$6.45	\$6.40	\$8.03	\$6.98	\$38.02
t	2008	2.4%	2.4%	0.943	\$112.10	\$99.57	\$115.73	\$102.80	\$82.95	\$83.90	\$73.08	\$22.59	\$56.96	\$83.54	\$109.82	\$7.88	\$9.18	\$8.16	\$8.20	\$9.98	\$8.86	\$303.83
0	2009	0.3%	0.3%	0.880	\$67.76	\$61.65	\$72.64	\$66.10	\$58.66	\$59.80	\$54.40	\$11.61	\$34.62	\$56.21	\$69.52	\$3.85	\$4.35	\$3.96	\$4.17	\$4.34	\$3.95	(\$5.08)
r	2010	1.8%	1.8%	0.971	\$86.99	\$79.40	\$85.25	\$77.80	\$67.22	\$68.18	\$60.62	\$11.53	\$45.19	\$68.79	\$84.06	\$3.76	\$4.39	\$4.01	\$4.01	\$4.81	\$4.39	\$56.94
i	2011	2.9%	2.9%	1.012	\$102.13	\$94.88	\$102.84	\$95.54	\$77.12	\$78.42	\$69.60	\$10.30	\$52.41	\$86.98	\$105.29	\$3.46	\$3.91	\$3.63	\$3.34	\$4.31	\$4.00	\$101.60
С	2012	1.5%	1.5%	1.001	\$98.34	\$94.11	\$90.47	\$86.57	\$73.10	\$74.41	\$64.07	\$6.73	\$30.80	\$75.47	\$99.71	\$2.25	\$2.50	\$2.39	\$2.29	\$2.88	\$2.75	\$126.81
а		0.9%	0.9%	0.972	\$100.76	\$97.91	\$96.08	\$93.36	\$74.97	\$76.29	\$65.49	\$8.68	\$38.54	\$77.44	\$103.57	\$2.98	\$3.27	\$3.17	\$3.08	\$3.84	\$3.73	\$62.17
I	2014	1.9%	1.9%	0.906	\$95.07	\$93.26	\$97.36	\$95.50	\$81.06	\$81.49	\$73.70	\$12.46	\$38.38	\$57.08	\$100.95	\$4.22	\$4.59	\$4.50	\$4.34	\$4.48	\$4.39	\$88.99
2	9 Mths H	1.2%	1.2%	0.795	\$51.16	\$51.16	\$60.21	\$60.21	\$48.68	\$49.22	\$43.42	\$7.69	\$1.65	\$25.83	\$55.36	\$2.63	\$2.77	\$2.77	\$2.62	\$2.82	\$2.82	\$114.27
0	3 Mths F	0.0%	0.0%	0.760	\$47.50	\$47.50	\$57.25	\$57.25	\$46.25	\$47.25	\$41.25	\$8.00	\$2.85	\$22.90	\$54.40	\$2.75	\$2.90	\$2.90	\$2.75	\$2.80	\$2.80	\$100.00
1																						i I
5		N/A	N/A	0.786	\$50.24	\$50.24	\$59.47	\$59.47	\$48.07	\$48.73	\$42.88	\$7.77	\$1.95	\$25.10	\$55.12	\$2.66	\$2.80	\$2.80	\$2.65	\$2.81	\$2.81	\$110.70
F	_0.0	0.0%	0.0%	0.760	\$47.50	\$47.50	\$57.25	\$57.25	\$46.25	\$47.25	\$41.25	\$8.00	\$2.85	\$22.90	\$54.40	\$2.75	\$2.90	\$2.90	\$2.75	\$2.80	\$2.80	\$100.00
0	-0.0	2.0%	2.0%	0.760	\$52.50	\$53.55	\$63.80	\$65.10	\$50.80	\$51.80	\$44.70	\$9.30	\$9.75	\$32.55	\$65.10	\$3.20	\$3.30	\$3.35	\$3.20	\$3.10	\$3.15	\$102.00
r	2017	2.0%	2.0%	0.780	\$55.00	\$57.20	\$65.40	\$68.05	\$53.50	\$54.50	\$47.25	\$10.15	\$17.00	\$40.85	\$68.05	\$3.55	\$3.55	\$3.70	\$3.55	\$3.35	\$3.50	\$104.05
е		2.0%	2.0%	0.800	\$60.00	\$63.65	\$70.00	\$74.30	\$59.45	\$60.50	\$53.05	\$10.65	\$22.30	\$44.55	\$74.30	\$3.70	\$3.65	\$3.85	\$3.70	\$3.50	\$3.70	\$106.10
C		2.0%	2.0%	0.800	\$65.00	\$70.35	\$76.25	\$82.55	\$67.40	\$68.45	\$60.90	\$11.65	\$24.80	\$49.50	\$82.55	\$4.05	\$3.90	\$4.20	\$4.05	\$3.70	\$4.00	\$108.25
а		2.0%	2.0%	0.800	\$70.00	\$77.30	\$82.50	\$91.10	\$75.65	\$76.75	\$69.00	\$12.30	\$27.35	\$54.65	\$91.10	\$4.30	\$4.05	\$4.45	\$4.30	\$3.85	\$4.25	\$110.40
S	2021 2022	2.0% 2.0%	2.0%	0.800	\$75.00	\$84.45	\$88.75	\$99.95	\$84.20	\$85.30	\$77.40	\$13.20	\$30.00	\$59.95 \$65.50	\$99.95	\$4.60	\$4.25	\$4.80	\$4.60	\$4.00	\$4.50	\$112.60
ľ		2.0%	2.0% 2.0%	0.800 0.800	\$80.00 \$80.00	\$91.90 \$93.75	\$95.00 \$95.00	\$109.15	\$93.05	\$94.20	\$86.15 \$87.85	\$13.90 \$14.65	\$32.75	\$66.80	\$109.15	\$4.90 \$5.15	\$4.40 \$4.55	\$5.05 \$5.35	\$4.90 \$5.15	\$4.10 \$4.25	\$4.70 \$5.00	\$114.85
	2023 2024	2.0%	2.0%	0.800	\$80.00	\$93.75 \$95.60	\$95.00 \$95.00	\$111.30 \$113.55	\$94.90 \$96.80	\$96.10 \$98.00	\$87.85 \$89.65	\$14.65	\$33.40 \$34.05	\$68.10	\$111.30 \$113.55	\$5.15 \$5.40	\$4.55 \$4.65	\$5.55	\$5.15 \$5.40	\$4.25 \$4.30	\$5.00 \$5.15	\$117.15 \$119.50
1	2024	2.0%	2.0%	0.800	\$80.00	\$95.60	\$95.00	\$115.80	\$98.75	\$99.95	\$91.40	\$15.80	\$34.05	\$69.50	\$115.80	\$5.40 \$5.55	\$4.65	\$5.75	\$5.40 \$5.55	\$4.30 \$4.35	\$5.15	\$119.50
	2025	2.0%	2.0%	0.800	\$80.00	\$99.45	\$95.00	\$118.10	\$100.70	\$101.95	\$93.25	\$16.40	\$35.45	\$70.85	\$118.10	\$5.55 \$5.80	\$4.70 \$4.80	\$5.75 \$5.95	\$5.80	\$4.35 \$4.45	\$5.55	\$121.90
	2027	2.0%	2.0%	0.800	\$80.00	\$101.45	\$95.00	\$110.10	\$100.75	\$101.93	\$95.25	\$17.25	\$36.15	\$70.83	\$120.50	\$6.10	\$4.80	\$6.30	\$6.10	\$4.55	\$5.75	\$124.33
	2027	2.0%	2.0%	0.800	\$80.00	\$101.43	\$95.00	\$120.30	\$104.80	\$106.10	\$97.00	\$17.23	\$36.85	\$73.75	\$120.30	\$6.20	\$4.95	\$6.40	\$6.20	\$4.55	\$5.75	\$120.80
1	2029	2.0%	2.0%	0.800	\$80.00	\$105.55	\$95.00	\$125.35	\$106.90	\$108.20	\$98.95	\$17.95	\$37.60	\$75.20	\$125.35	\$6.35	\$4.95	\$6.55	\$6.35	\$4.55	\$6.00	\$131.95
1	2030	2.0%	2.0%	0.800	\$80.00	\$107.65	\$95.00	\$127.85	\$109.00	\$110.35	\$100.95	\$18.30	\$38.35	\$76.70	\$127.85	\$6.45	\$4.95	\$6.65	\$6.45	\$4.55	\$6.10	\$134.60
1	2031	2.0%	2.0%	0.800	\$80.00	\$109.80	\$95.00	\$130.40	\$111.20	\$112.55	\$102.95	\$18.65	\$39.10	\$78.25	\$130.40	\$6.60	\$4.95	\$6.80	\$6.60	\$4.55	\$6.25	\$137.30
1	2032	2.0%	2.0%	0.800	\$80.00	\$112.00	\$95.00	\$133.00	\$113.40	\$114.80	\$105.00	\$19.05	\$39.90	\$79.80	\$133.00	\$6.70	\$4.95	\$6.95	\$6.70	\$4.55	\$6.35	\$140.00
1	2033	2.0%	2.0%	0.800	\$80.00	\$114.25	\$95.00	\$135.70	\$115.70	\$117.10	\$107.10	\$19.40	\$40.70	\$81.40	\$135.70	\$6.85	\$4.95	\$7.05	\$6.85	\$4.55	\$6.50	\$142.80
	2034	2.0%	2.0%	0.800	\$80.00	\$116.55	\$95.00	\$138.40	\$118.00	\$119.45	\$109.25	\$19.80	\$41.50	\$83.05	\$138.40	\$7.00	\$4.95	\$7.20	\$7.00	\$4.55	\$6.65	\$145.70
	2034+	2.0%	2.0%	0.800	0.0%	2.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	0.0%	2.0%	2.0%	0.0%	2.0%	2.0%

- Notes: All prices are in Canadian dollars except WTI and NYMEX gas which are in U.S. dollars
 - Edmonton city gate prices based on historical light oil par prices posted by the government of Alberta and Net Energy differential futures (40 Deg. API < 0.5% Sulphur)
 - Natural Gas Liquid prices are forecasted at Edmonton therefore an additional transportation cost must be included to plant gate sales point
 - 1 Mcf is equivalent to 1 mmbtu
 - Real prices listed in 2015 dollars with no escalation considered
 - Alberta gas prices, except AECO, include an average cost of service to the plant gate

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Deloitte Resource Evaluation & Advisory Canadian Domestic Forecast - Additional Crude Reference Prices Base Case Forecast Effective September 30 2015

					Crude Oil P	ricing										Natural Gas
		Price Inflation	Cost Inflation	CAD to USD Exchange	WTI at Cushing Oklahoma US\$/bbl	WTI at Cushing Oklahoma US\$/bbl	Edmonton City Gate C\$/bbl	City Gate C\$/bbl	Lt. Sour 35 Deg. API Cromer, SK C\$/bbl	MSO 31 Deg. API Hardisty C\$/bbl	Bow River 25 Deg. API Hardisty C\$/bbl	WCS 20.5 Deg. API Hardisty C\$/bbl	Heavy Oil 12 Deg. API Hardisty C\$/bbl	Synbit (AWB) 70% Bitumen 30% Cond. 21 Deg. API C\$/bbl	Sarnia MSW C\$/bbl	Ontario Dawn Reference Point C\$/mcf
L.		Rate	Rate	Rate	Real	Current	Real	Current	Current	Current	Current	Current	Current	Current	Current	Current
H	2005	2.2%	2.2%	0.826	\$67.93	\$56.56	\$83.21	\$69.29	\$62.31	\$56.26	\$45.62	\$44.60	\$33.70	\$46.01	\$71.30	\$10.67
i	2006	2.0%	2.0%	0.882	\$77.51	\$66.02	\$86.04	\$73.28	\$66.08	\$61.45	\$51.90	\$51.22	\$39.53	\$51.12	\$75.37	\$7.76
S	2007	2.1%	2.1%	0.935	\$83.19	\$72.32	\$88.64	\$77.05	\$70.06	\$64.87	\$53.87	\$52.90	\$39.76	\$52.33	\$78.48	\$7.43
t	2008	2.4%	2.4%	0.943	\$112.10	\$99.57	\$115.73	\$102.80	\$95.28	\$92.40	\$83.90	\$82.95	\$73.08	\$84.10	\$109.21	\$9.88
0	2009	0.3%	0.3%	0.880	\$67.76	\$61.65	\$72.64	\$66.10	\$64.04	\$63.76	\$59.80	\$58.66	\$54.40	\$58.94	\$69.29	\$4.80
r	2010	1.8%	1.8%	0.971	\$86.99	\$79.40	\$85.25	\$77.80	\$76.40	\$72.32	\$68.18	\$67.22	\$60.62	\$67.65	\$81.48	\$4.79
i	2011	2.9%	2.9%	1.012	\$102.13	\$94.88	\$102.84	\$95.54	\$92.13	\$83.39	\$78.42	\$77.12	\$69.60	\$80.30	\$99.26	\$4.34
С	2012	1.5%	1.5%	1.001	\$98.34	\$94.11	\$90.47	\$86.57	\$84.27	\$77.53	\$74.41	\$73.10	\$64.07	\$74.76	\$90.36	\$3.11
a	2013	0.9%	0.9%	0.972	\$100.76	\$97.91	\$96.08	\$93.36	\$91.76	\$82.65	\$76.29	\$74.97	\$65.49	\$76.91	\$97.33	\$4.13
ш	2014	1.9%	1.9%	0.906	\$95.07	\$93.26	\$97.36	\$95.50	\$92.91	\$89.39	\$81.49	\$81.06	\$73.70	\$81.87	\$98.19	\$5.76
2		1.2%	1.2%	0.795	\$51.16	\$51.16	\$60.21	\$60.21	\$57.03	\$56.66	\$49.22	\$48.68	\$43.42	\$47.00	\$67.20	\$3.86
0	3 Mths F	0.0%	0.0%	0.760	\$47.50	\$47.50	\$57.25	\$57.25	\$53.75	\$54.25	\$47.25	\$46.25	\$41.25	\$45.20	\$64.25	\$4.00
1	_															
5	Avg.	N/A	N/A	0.786	\$50.24	\$50.24	\$59.47	\$59.47	\$56.21	\$56.06	\$48.73	\$48.07	\$42.88	\$46.55	\$66.46	\$3.89
-	2015	0.0%	0.0%	0.760	\$47.50	\$47.50	\$57.25	\$57.25	\$53.75	\$54.25	\$47.25	\$46.25	\$41.25	\$45.20	\$64.25	\$4.00
0	2016	2.0%	2.0%	0.760	\$52.50	\$53.55	\$63.80	\$65.10	\$61.50	\$58.95	\$51.80	\$50.80	\$44.70	\$50.80	\$70.20	\$4.50
r	2017	2.0%	2.0%	0.780	\$55.00	\$57.20	\$65.40	\$68.05	\$64.40	\$61.80	\$54.50	\$53.50	\$47.25	\$53.50	\$73.25	\$4.85
е	2018	2.0%	2.0%	0.800	\$60.00	\$63.65	\$70.00	\$74.30	\$70.55	\$67.90	\$60.50	\$59.45	\$53.05	\$59.45	\$79.60	\$5.05
С	2019	2.0%	2.0%	0.800	\$65.00	\$70.35	\$76.25	\$82.55	\$78.75	\$76.05	\$68.45	\$67.40	\$60.90	\$67.40	\$87.95	\$5.40
а	2020	2.0%	2.0%	0.800	\$70.00	\$77.30	\$82.50	\$91.10	\$87.20	\$84.45	\$76.75	\$75.65	\$69.00	\$75.65	\$96.60	\$5.70
S	2021	2.0%	2.0%	0.800	\$75.00	\$84.45	\$88.75	\$99.95	\$96.00	\$93.20	\$85.30	\$84.20	\$77.40	\$84.20	\$105.60	\$6.00
τ	2022 2023	2.0%	2.0% 2.0%	0.800 0.800	\$80.00 \$80.00	\$91.90 \$93.75	\$95.00	\$109.15 \$111.30	\$105.10	\$102.25	\$94.20 \$96.10	\$93.05	\$86.15	\$93.05	\$114.85 \$147.45	\$6.30 \$6.60
	2023 2024	2.0% 2.0%	2.0%	0.800	\$80.00	\$95.60	\$95.00	\$111.30 \$113.55	\$107.20 \$109.35	\$104.30 \$106.35	\$96.10 \$98.00	\$94.90 \$96.80	\$87.85	\$94.90 \$96.80	\$117.15 ©110.50	\$6.85
	2024	2.0%	2.0%	0.800	\$80.00	\$95.60 \$97.50	\$95.00 \$95.00	\$115.80	\$109.35 \$111.55	\$108.50	\$90.00 \$99.95	\$98.75	\$89.65 \$91.40	\$98.75	\$119.50 \$121.90	\$0.05 \$7.05
	2025	2.0%	2.0%	0.800	\$80.00	\$99.45	\$95.00 \$95.00	\$118.10	,	\$100.50	\$101.95	\$96.75 \$100.70		\$100.70		\$7.05 \$7.35
	2026	2.0%	2.0%	0.800	\$80.00	\$99.45 \$101.45	\$95.00 \$95.00	\$118.10	\$113.75 \$116.05	\$110.65 \$112.85	\$101.95 \$104.00	\$100.70 \$102.75	\$93.25 \$95.10	\$100.70 \$102.75	\$124.35 \$126.80	\$7.35 \$7.65
	2027	2.0%	2.0%	0.800	\$80.00	\$101.45	\$95.00 \$95.00	\$120.50	\$118.35	\$112.05 \$115.15	\$104.00 \$106.10	\$102.75 \$104.80	\$95.10	\$102.75 \$104.80	\$120.00	\$7.85 \$7.85
	2028	2.0%	2.0%	0.800	\$80.00	\$105.50 \$105.55	\$95.00 \$95.00	\$122.90	\$110.35	\$115.15 \$117.45	\$108.10	\$104.80 \$106.90	\$97.00 \$98.95	\$104.80 \$106.90	\$129.35 \$131.95	\$7.05 \$8.00
	2029	2.0%	2.0%	0.800	\$80.00	\$105.55 \$107.65	\$95.00 \$95.00	\$125.35 \$127.85	\$120.75 \$123.15	\$117. 4 5 \$119.80	\$100.20	\$109.90	\$90.95 \$100.95	\$100.90	\$134.60	\$8.00 \$8.15
	2030	2.0%	2.0%	0.800	\$80.00	\$107.83	\$95.00 \$95.00	\$127.65 \$130.40	\$125.60	\$119.00	\$110.35 \$112.55	\$109.00	\$100.95	\$111.20	\$134.60	\$8.30
	2031	2.0%	2.0%	0.800	\$80.00	\$109.80	\$95.00	\$130.40	\$123.00	\$124.60	\$114.80	\$113.40	\$102.93	\$111.20 \$113.40	\$137.30	\$8.45
	2032	2.0%	2.0%	0.800	\$80.00	\$114.25	\$95.00	\$135.00	\$130.70	\$127.10	\$117.10	\$115.70	\$103.00	\$115.70	\$140.00	\$8.65
	2033	2.0%	2.0%	0.800	\$80.00	\$114.25	\$95.00	\$133.70	\$130.70	\$127.10	\$117.10	\$118.00	\$107.10	\$118.00	\$142.00	\$8.80
	2034+	2.0%	2.0%	0.800	0.0%	2.0%	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<u></u>	2034⊤	2.0 /0	2.0 /0	0.000	0.070	2.0 /0	0.070	2.0 /0	2.0 /0	2.0 /0	∠.∪ /0	2.0 /0	2.0 /0	2.0 /0	∠.∪ /0	2.0 /0

Notes:

- All prices are in Canadian dollars except WTI and NYMEX gas which are in U.S. dollars
- Edmonton city gate prices based on historical light oil par prices posted by the government of Alberta and Net Energy differential futures (40 Deg. API < 0.5% Sulphur)
- 1 Mcf is equivalent to 1 mmbtu
- Real prices listed in 2015 dollars with no escalation considered
- Sarnia price is Edmonton Sweet (MSW) delivered to Sarnia, Ontario
- Synbit is a combined bitumin (70%) and Condensate (30%) stream equivelent to the Acces Western Blend (AWB).

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Deloitte Resource Evaluation & Advisory International Forecast Base Case Forecast Effective September 30 2015 Real Prices

		Crude Oil Pri	cing														
		Average WTI Spot US\$/bbI Real	Alaskan North Slope US\$/bbl Real	California Kern River US\$/bbl Real	Louisiana Heavy Sweet US\$/bbl Real	Louisiana Light Sweet US\$/bbl Real	MARS Blend US\$/bbl Real	Wyoming Sweet US\$/bbl Real	Brent Spot US\$/bbl Real	Gulf Coast Argus Sour Crude Index ASCI US\$/bbl Real	Average OPEC Basket US\$/bbl Real	Venezuelan Merey US\$/bbl Real	Nigerian Bonny Light US\$/bbl Real	Arabia UAE Dubai Feteh US\$/bbl Real	Mexico Maya US\$/bbl Real	Russia Urals US\$/bbl Real	Indonesia Minas US\$/bbl Real
F	2015	\$47.50	\$43.50	\$44.50	\$47.50	\$48.50	\$45.50	\$39.00	\$52.50	\$45.50	\$49.50	\$42.50	\$53.00	\$51.00	\$44.50	\$51.50	\$51.00
	2016	\$52.50	\$48.50	\$49.50	\$52.50	\$53.50	\$50.50	\$44.00	\$57.50	\$50.50	\$54.50	\$47.50	\$58.00	\$56.00	\$49.50	\$56.50	\$56.00
١,	2017	\$55.00	\$51.00	\$52.00	\$55.00	\$56.00	\$53.00	\$46.50	\$60.00	\$53.00	\$57.00	\$50.00	\$60.50	\$58.50	\$52.00	\$59.00	\$58.50
ė	2018	\$60.00	\$56.00	\$57.00	\$60.00	\$61.00	\$58.00	\$51.50	\$65.00	\$58.00	\$62.00	\$55.00	\$65.50	\$63.50	\$57.00	\$64.00	\$63.50
c	2019	\$65.00	\$61.00	\$62.00	\$65.00	\$66.00	\$63.00	\$56.50	\$70.00	\$63.00	\$67.00	\$60.00	\$70.50	\$68.50	\$62.00	\$69.00	\$68.50
a	2020	\$70.00	\$66.00	\$67.00	\$70.00	\$71.00	\$68.00	\$61.50	\$75.00	\$68.00	\$72.00	\$65.00	\$75.50	\$73.50	\$67.00	\$74.00	\$73.50
s	2021	\$75.00	\$71.00	\$72.00	\$75.00	\$76.00	\$73.00	\$66.50	\$80.00	\$73.00	\$77.00	\$70.00	\$80.50	\$78.50	\$72.00	\$79.00	\$78.50
1	2022	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
١,	2023	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2024	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2025	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2026	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2027	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2028	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2029	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2030	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2031	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2032	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2033	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2034	\$80.00	\$76.00	\$77.00	\$80.00	\$81.00	\$78.00	\$71.50	\$85.00	\$78.00	\$82.00	\$75.00	\$85.50	\$83.50	\$77.00	\$84.00	\$83.50
	2034+	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

				Natural Gas	s Pricing							Ethanol
		USD to GBP Exchange Rate	USD to EUR Exchange Rate	NYMEX Henry Hub US\$/Mcf Real	Permian Waha US\$/Mcf Real	San Juan Ignacio US\$/Mcf Real	Gulf Coast (onshore) US\$/Mcf Real	Louisiana East Texas US\$/Mcf Real	Rocky Mtn. Opal US\$/Mcf Real	UK NBP US\$/Mcf Real	India Domestic Gas US\$/Mcf Real	U.S. CBOT Ethanol US\$/gal. Real
F	2015	1.550	1.100	\$2.80	\$2.60	\$2.60	\$2.70	\$2.75	\$2.65	\$6.40	\$4.00	\$1.45
0	2016	1.550	1.100	\$3.10	\$2.90	\$2.90	\$3.00	\$3.05	\$2.95	\$6.50	\$3.15	\$1.45
r	2017	1.550	1.100	\$3.35	\$3.15	\$3.15	\$3.25	\$3.30	\$3.20	\$6.55	\$3.35	\$1.45
е	2018	1.550	1.100	\$3.50	\$3.30	\$3.30	\$3.40	\$3.45	\$3.35	\$6.60	\$3.45	\$1.45
С	2019	1.550	1.100	\$3.70	\$3.50	\$3.50	\$3.60	\$3.65	\$3.55	\$6.70	\$3.55	\$1.45
а	2020	1.550	1.100	\$3.85	\$3.65	\$3.65	\$3.75	\$3.80	\$3.70	\$6.85	\$3.70	\$1.45
s	2021	1.550	1.100	\$4.00	\$3.80	\$3.80	\$3.90	\$3.95	\$3.85	\$7.00	\$3.85	\$1.45
t	2022	1.550	1.100	\$4.10	\$3.90	\$3.90	\$4.00	\$4.05	\$3.95	\$7.10	\$4.00	\$1.45
	2023	1.550	1.100	\$4.25	\$4.05	\$4.05	\$4.15	\$4.20	\$4.10	\$7.25	\$4.10	\$1.45
	2024	1.550	1.100	\$4.30	\$4.10	\$4.10	\$4.20	\$4.25	\$4.15	\$7.30	\$4.25	\$1.45
	2025	1.550	1.100	\$4.35	\$4.15	\$4.15	\$4.25	\$4.30	\$4.20	\$7.35	\$4.30	\$1.45
	2026	1.550	1.100	\$4.45	\$4.25	\$4.25	\$4.35	\$4.40	\$4.30	\$7.45	\$4.35	\$1.45
	2027	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.45	\$1.45
	2028	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2029	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2030	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2031	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2032	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2033	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2034	1.550	1.100	\$4.55	\$4.35	\$4.35	\$4.45	\$4.50	\$4.40	\$7.55	\$4.55	\$1.45
	2034+	1.550	1.100	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Notes: Venezuelan Merey replaced BCF-17 in the OPEC basket March 1, 2009.

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Deloitte Resource Evaluation & Advisory International Forecast Base Case Forecast Effective September 30 2015 Escalated Prices

		I		Crude Oil P	ricina															Natural Ga	ıs.						Ethanol
				0.000																Tratarar Gu							Linanoi
				Average	Alaska	California	Louisiana	Louisiana	MARS	Wyoming		Gulf Coast	Average							NYMEX							U.S.
				WTI	North	Kern	Heavy	Light	Blend	Sweet	Brent	Argus Sour	OPEC	Venezuelan	Nigerian	Arabia UAE	Mexico	Russia	Indonesia	Henry	Permian	San Juan	Gulf Coast	Louisiana	Rocky Mtn.		CBOT
		USD to GBP	USD to EUR	Spot	Slope	River	Sweet	Sweet			Spot	Crude Index	Basket	Merey	Bonny Light	Dubai Feteh	Maya	Urals	Minas	Hub	Waha	Ignacio	(Onshore)	East Texas	Opal	UK NBP	Ethanol
		Exchange	Exchange	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/gal.
L		Rate	Rate		Escalated		Escalated	Escalated	Escalated		Escalated	Escalated	Escalated	Escalated	Escalated	Escalated	Escalated		Escalated	Escalated				Escalated	Escalated	Escalated	Escalated
H	2005	1.820	1.245	\$56.56	\$47.31	\$44.73	\$52.91	\$52.81	\$48.68	\$54.01	\$54.57	N/A	\$50.71	N/A	\$55.60	\$49.32	\$40.91	\$50.75	\$53.93	\$8.81	\$7.58	\$7.23	\$7.85	\$8.72	\$7.19	3.672869	N/A
	2006	1.843	1.256	\$66.02	\$56.97	\$55.00	\$63.31	\$63.64	\$57.15	\$60.41	\$65.15	N/A	\$61.08	N/A	\$66.81	\$61.51	\$51.20	\$61.34	\$65.20	\$6.75	\$5.90	\$5.81	\$6.36	\$6.72	\$5.35	4.955439	N/A
\$	2007	2.002	1.371	\$72.32	\$63.80	\$62.49	\$70.20	\$72.34	\$63.80	\$64.36	\$72.47	N/A	\$69.08	N/A	\$75.15	\$68.40	\$59.85	\$69.54	\$73.55	\$6.98	\$6.24	\$6.13	\$6.56	\$6.99	\$4.01	2.932821	N/A
1	2008	1.852	1.470	\$99.57	\$91.24	\$87.20	\$103.62	\$100.82	\$94.61	\$88.38	\$96.85	N/A	\$94.43	N/A	\$100.24	\$93.48	\$83.83	\$94.51	\$100.25	\$8.86	\$7.44	\$7.20	\$8.48	\$8.89	\$6.52	\$6.14	N/A
	2009	1.565	1.393	\$61.65	\$54.84	\$53.09	\$58.78	\$60.29	\$56.51	\$51.73	\$61.49	N/A	\$61.06	N/A	\$53.01	\$61.65	\$56.41	\$60.70	\$58.84	\$3.95	\$3.43	\$3.34	\$3.76	\$3.96	\$3.14	\$4.53	\$1.72
	2010	1.546	1.328	\$79.40	\$72.17	\$72.83	\$78.16	\$79.32	\$75.60	\$70.44	\$79.68	\$75.60	\$77.45	\$69.68	\$70.70	\$78.04	\$70.07	\$78.01	\$0.00	\$4.39	\$4.16	\$4.09	\$4.29	\$4.38	\$3.94	\$6.41	\$1.80
	2011	1.604	1.392	\$94.88	\$98.47	\$103.11	\$107.12	\$108.03	\$105.37	\$87.41	\$111.26	\$105.37	\$107.51	\$97.88	\$88.28	\$106.19	\$98.95	\$109.19	\$0.00	\$4.00	\$3.88	\$3.82	\$3.90	\$3.98	\$3.80	\$9.03	\$2.51
(2012	1.586	1.286	\$94.11	\$98.35	\$103.69	\$107.18	\$107.19	\$104.82	\$85.04	\$111.99	\$104.82	\$109.46	\$100.11	\$111.61	\$109.11	\$99.74	\$110.50	\$110.64	\$2.75	\$2.64	\$2.64	\$2.68	\$2.74	\$2.67	\$9.47	\$2.31
ē	2013	1.565	1.329	\$97.91	\$95.85	\$101.38	\$105.80	\$106.19	\$101.80	\$89.97	\$108.64	\$101.80	\$105.47	\$96.71	\$111.41	\$105.51	\$98.06	\$108.05	\$107.54	\$3.73	\$3.62	\$3.64	\$3.64	\$3.68	\$3.64	\$10.66	\$2.04
ш	2014	1.647	1.329	\$93.26	\$86.45	\$90.38	\$96.16	\$94.25	\$92.95	\$83.50	\$99.02	\$92.95	\$96.29	\$86.79	\$100.77	\$96.61	\$85.81	\$98.01	\$98.63	\$4.39	\$4.28	\$4.28	\$4.31	\$4.04	\$4.34	\$8.24	\$1.93
F	2015	1.550	1.100	\$47.50	\$43.50	\$44.50	\$47.50	\$48.50	\$45.50	\$39.00	\$52.50	\$45.50	\$49.50	\$42.50	\$53.00	\$51.00	\$44.50	\$51.50	\$51.00	\$2.80	\$2.60	\$2.60	\$2.70	\$2.75	\$2.65	\$6.40	\$1.45
1	2016	1.550	1.100	\$53.55	\$49.45	\$50.50	\$53.55	\$54.55	\$51.50	\$44.90	\$58.65	\$51.50	\$55.60	\$48.45	\$59.15	\$57.10	\$50.50	\$57.65	\$57.10	\$3.15	\$2.95	\$2.95	\$3.05	\$3.10	\$3.00	\$6.65	\$1.50
	2017	1.550	1.100	\$57.20	\$53.05	\$54.10	\$57.20	\$58.25	\$55.15	\$48.40	\$62.40	\$55.15	\$59.30	\$52.00	\$62.95	\$60.85	\$54.10	\$61.40	\$60.85	\$3.50	\$3.30	\$3.30	\$3.40	\$3.45	\$3.35	\$6.80	\$1.50
•	2018	1.550	1.100	\$63.65	\$59.45	\$60.50	\$63.65	\$64.75	\$61.55	\$54.65	\$69.00	\$61.55	\$65.80	\$58.35	\$69.50	\$67.40	\$60.50	\$67.90	\$67.40	\$3.70	\$3.50	\$3.50	\$3.60	\$3.65	\$3.55	\$7.00	\$1.55
1	2019	1.550	1.100	\$70.35	\$66.05	\$67.10	\$70.35	\$71.45	\$68.20	\$61.15	\$75.75	\$68.20	\$72.50	\$64.95	\$76.30	\$74.15	\$67.10	\$74.70	\$74.15	\$4.00	\$3.80	\$3.80	\$3.90	\$3.95	\$3.85	\$7.25	\$1.55
ē	2020	1.550	1.100	\$77.30	\$72.85	\$73.95	\$77.30	\$78.40	\$75.10	\$67.90	\$82.80	\$75.10	\$79.50	\$71.75	\$83.35	\$81.15	\$73.95	\$81.70	\$81.15	\$4.25	\$4.05	\$4.05	\$4.15	\$4.20	\$4.10	\$7.55	\$1.60
	2021	1.550	1.100	\$84.45	\$79.95	\$81.10	\$84.45	\$85.60	\$82.20	\$74.90	\$90.10	\$82.20	\$86.70	\$78.85	\$90.65	\$88.40	\$81.10	\$88.95	\$88.40	\$4.50	\$4.30	\$4.30	\$4.40	\$4.45	\$4.35	\$7.90	\$1.65
1	2022	1.550	1.100	\$91.90	\$87.30	\$88.45	\$91.90	\$93.05	\$89.60	\$82.15	\$97.65	\$89.60	\$94.20	\$86.15	\$98.20	\$95.90	\$88.45	\$96.50	\$95.90	\$4.70	\$4.50	\$4.50	\$4.60	\$4.65	\$4.55	\$8.15	\$1.65
	2023	1.550	1.100	\$93.75	\$89.05	\$90.20	\$93.75	\$94.90	\$91.40	\$83.75	\$99.60	\$91.40	\$96.10	\$87.85	\$100.20	\$97.85	\$90.20	\$98.40	\$97.85	\$5.00	\$4.75	\$4.75	\$4.85	\$4.90	\$4.80	\$8.50	\$1.70
	2024	1.550	1.100	\$95.60	\$90.85	\$92.00	\$95.60	\$96.80	\$93.20	\$85.45	\$101.60	\$93.20	\$98.00	\$89.65	\$102.20	\$99.80	\$92.00	\$100.40	\$99.80	\$5.15	\$4.90	\$4.90	\$5.00	\$5.10	\$4.95	\$8.70	\$1.75
	2025	1.550	1.100	\$97.50	\$92.65	\$93.85	\$97.50	\$98.75	\$95.10	\$87.15	\$103.60	\$95.10	\$99.95	\$91.40	\$104.20	\$101.80	\$93.85	\$102.40	\$101.80	\$5.30	\$5.05	\$5.05	\$5.20	\$5.25	\$5.10	\$8.95	\$1.75
	2026	1.550	1.100	\$99.45	\$94.50	\$95.75	\$99.45	\$100.70	\$97.00	\$88.90	\$105.70	\$97.00	\$101.95	\$93.25	\$106.30	\$103.80	\$95.75	\$104.45	\$103.80	\$5.55	\$5.30	\$5.30	\$5.40	\$5.45	\$5.35	\$9.25	\$1.80
	2027	1.550	1.100	\$101.45	\$96.40	\$97.65	\$101.45	\$102.75	\$98.90	\$90.70	\$107.80	\$98.90	\$104.00	\$95.10	\$108.45	\$105.90	\$97.65	\$106.55	\$105.90	\$5.75	\$5.50	\$5.50	\$5.65	\$5.70	\$5.60	\$9.60	\$1.85
1	2028	1.550	1.100	\$103.50	\$98.30	\$99.60	\$103.50	\$104.80	\$100.90	\$92.50	\$109.95	\$100.90	\$106.10	\$97.00	\$110.60	\$108.00	\$99.60	\$108.65	\$108.00	\$5.90	\$5.65	\$5.65	\$5.75	\$5.80	\$5.70	\$9.75	\$1.90
1	2029	1.550	1.100	\$105.55	\$100.30	\$101.60	\$105.55	\$106.90	\$102.90	\$94.35	\$112.15	\$102.90	\$108.20	\$98.95	\$112.80	\$110.20	\$101.60	\$110.85	\$110.20	\$6.00	\$5.75	\$5.75	\$5.85	\$5.95	\$5.80	\$9.95	\$1.90
	2030	1.550	1.100	\$107.65	\$102.30	\$103.65	\$107.65	\$109.00	\$105.00	\$96.25	\$114.40	\$105.00	\$110.35	\$100.95	\$115.05	\$112.40	\$103.65	\$113.05	\$112.40	\$6.10	\$5.85	\$5.85	\$6.00	\$6.05	\$5.90	\$10.15	\$1.95
1	2031	1.550	1.100	\$109.80	\$104.35	\$105.70	\$109.80	\$111.20	\$107.10	\$98.15	\$116.70	\$107.10	\$112.55	\$102.95	\$117.35	\$114.65	\$105.70	\$115.30	\$114.65	\$6.25	\$5.95	\$5.95	\$6.10	\$6.20	\$6.05	\$10.35	\$2.00
1	2032	1.550	1.100	\$112.00	\$106.40	\$107.80	\$112.00	\$113.40	\$109.20	\$100.10	\$119.00	\$109.20	\$114.80	\$105.00	\$119.70	\$116.90	\$107.80	\$117.60	\$116.90	\$6.35	\$6.10	\$6.10	\$6.25	\$6.30	\$6.15	\$10.55	\$2.05
1	2033	1.550	1.100	\$114.25	\$108.55	\$109.95	\$114.25	\$115.70	\$111.40	\$102.10	\$121.40	\$111.40	\$117.10	\$107.10	\$122.10	\$119.25	\$109.95	\$119.95	\$119.25	\$6.50	\$6.20	\$6.20	\$6.35	\$6.45	\$6.30	\$10.80	\$2.05
	2034	1.550	1.100	\$116.55	\$110.70	\$112.15	\$116.55	\$118.00	\$113.65	\$104.15	\$123.85	\$113.65	\$119.45	\$109.25	\$124.55	\$121.65	\$112.15	\$122.35	\$121.65	\$6.65	\$6.35	\$6.35	\$6.50	\$6.55	\$6.40	\$11.00	\$2.10
L	2034+	1.550	1.100	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%

Notes: Venezuelan Merey replaced BCF-17 in the OPEC basket March 1, 2009.

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